



Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) Super 77(TM) Multipurpose Adhesive (Aerosol)

MANUFACTURER: 3M

DIVISION: Construction And Home Improvement Prods

ADDRESS: 3M Center
St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

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Product Use:

Intended Use: Adhesive aerosol
Specific Use: General Purpose Aerosol adhesive

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
NON-VOLATILE COMPONENTS (NJ TRADE SECRET # 04499600-6433P)	Trade Secret	20 - 30
ACETONE	67-64-1	20 - 30
PROPANE	74-98-6	15 - 25
2-METHYLPENTANE	107-83-5	10 - 20
CYCLOHEXANE	110-82-7	3 - 7
3-METHYLPENTANE	96-14-0	3 - 7
2,2-DIMETHYLBUTANE	75-83-2	1 - 3
2,3-DIMETHYLBUTANE	79-29-8	1 - 3
HEXANE	110-54-3	< 0.8

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Aerosol

Odor, Color, Grade: clear, sweet fruity odor

General Physical Form: Gas aerosol

Immediate health, physical, and environmental hazards: Closed containers exposed to heat from fire may build pressure and

explode. Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Aerosol container contains flammable material under pressure. May cause target organ effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin Contact:

Prolonged or repeated exposure may cause:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

Inhalation:

Intentional concentration and inhalation may be harmful or fatal.

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May be absorbed following ingestion and cause target organ effects.

Target Organ Effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Skin Contact: Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Inhalation: Remove person to fresh air. If signs/symptoms develop, get medical attention.

If Swallowed: Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	No Data Available
Flash Point	-42.00 °F [Test Method: Tagliabue Closed Cup]
Flammable Limits - LEL	No Data Available
Flammable Limits - UEL	No Data Available
OSHA Flammability Classification:	Class IA Flammable Liquid

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Closed containers exposed to heat from fire may build pressure and explode. Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Aerosol container contains flammable material under pressure.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Do not pierce or burn container, even after use. No smoking while handling this material. Do not spray near flames or sources of ignition. Avoid breathing of vapors, mists or spray. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. Vapors may ignite explosively. May cause flash fire. Prevent build-up of vapors - open all windows and doors. Maintain vapor concentrations below recommended exposure limits. Use only with cross-ventilation. Without adequate ventilation, vapors may settle in low-lying areas. Keep away from heat, sparks, and open flame. Do not smoke or ignite matches, lighters, etc.

7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Use in an enclosed process area is recommended. Use with functioning spray booth or local exhaust. Use in a well-ventilated area. If exhaust ventilation is not available, use appropriate respiratory protection. Do not use in a confined area or areas with little or no air movement. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment. Do not use in a confined area or areas with little or no air movement. If exhaust ventilation is not adequate, use appropriate respiratory protection. Provide ventilation adequate to control vapor concentrations below recommended exposure limits and/or control spray or mist.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields.

8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Polyethylene/Ethylene Vinyl Alcohol.

8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
ACETONE	ACGIH	TWA	500 ppm	Table A4
ACETONE	ACGIH	STEL	750 ppm	Table A4
ACETONE	OSHA	TWA, Vacated	750 ppm	
ACETONE	OSHA	TWA	1000 ppm	Table Z-1
ACETONE	OSHA	STEL, Vacated	1000 ppm	
CYCLOHEXANE	ACGIH	TWA	100 ppm	
CYCLOHEXANE	OSHA	TWA	300 ppm	Table Z-1

HEXANE	ACGIH	TWA	50 ppm	Skin Notation*
HEXANE	OSHA	TWA, Vacated	50 ppm	Table Z-1A
HEXANE	OSHA	TWA	500 ppm	Table Z-1A
HEXANE (ISOMERS OTHER THAN N-HEXANE)	ACGIH	TWA	500 ppm	
HEXANE (ISOMERS OTHER THAN N-HEXANE)	ACGIH	STEL	1000 ppm	
PROPANE	ACGIH	TWA	1000 ppm	
PROPANE	OSHA	TWA	1000 ppm	Table Z-1

* Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

VAC Vacated PEL: Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline

OSHA: Occupational Safety and Health Administration

AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Physical Form:	Aerosol
Odor, Color, Grade:	clear, sweet fruity odor
General Physical Form:	Gas aerosol
Autoignition temperature	<i>No Data Available</i>
Flash Point	-42.00 °F [<i>Test Method:</i> Tagliabue Closed Cup]
Flammable Limits - LEL	<i>No Data Available</i>
Flammable Limits - UEL	<i>No Data Available</i>
Boiling point	<i>Not Applicable</i>
Vapor Density	2.97 [<i>Ref Std:</i> AIR=1]
Specific Gravity	0.726 [<i>Ref Std:</i> WATER=1]
pH	<i>No Data Available</i>
Melting point	<i>No Data Available</i>
Solubility in Water	Nil
Evaporation rate	1.90 [<i>Ref Std:</i> ETHER=1]
Hazardous Air Pollutants	0.4 % weight [<i>Test Method:</i> Calculated]
Hazardous Air Pollutants	0.016 lb HAPS/lb solids
Hazardous Air Pollutants	0.02 lb HAPS/gal [<i>Test Method:</i> Calculated]
Volatile Organic Compounds	Approximately 51 % [<i>Test Method:</i> calculated SCAQMD rule 443.1]
Percent volatile	<=75 % weight
VOC Less H2O & Exempt Solvents	468 g/l
Viscosity	<i>Not Applicable</i>

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: Heat

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Aldehydes	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate uncured product in a permitted hazardous waste incinerator.

Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

The facility should be equipped to handle gaseous waste.

Facility must be capable of handling aerosol cans. Dispose of empty product containers in a sanitary landfill.

RECYCLE EMPTY AEROSOL CONTAINERS WHERE AVAILABLE.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

LN-A100-0323-8, LN-A100-0323-9, LN-A100-0324-0, 62-4977-4030-8, 62-4977-4920-0, 62-4977-4926-7, 62-4977-4977-0, 70-0714-1653-4, 70-0714-1654-2, 70-0714-1656-7, 70-0714-7444-2, 70-0714-7572-0, 70-0714-7930-0, 70-0714-8259-3, 70-0714-8947-3

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

<u>Ingredient</u>	<u>C.A.S. No</u>	<u>% by Wt</u>
CYCLOHEXANE	110-82-7	3 - 7

This material contains a chemical which requires export notification under TSCA Section 12[b]:

<u>Ingredient (Category if applicable)</u>	<u>C.A.S. No</u>	<u>Regulation</u>	<u>Status</u>
HEXANE	110-54-3	Toxic Substances Control Act (TSCA) 4 Test Rule Chemicals	Applicable
CYCLOHEXANE	110-82-7	Toxic Substances Control Act (TSCA) 4 Test Rule Chemicals	Applicable
ACETONE	67-64-1	Toxic Substances Control Act (TSCA) 4 Test Rule Chemicals	Applicable

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

This material contains one or more ingredients that may be regulated by the International Traffic in Arms Regulation (ITAR), an

export control of US military technology and chemicals. Prior to export of this material or any product containing this material, determine whether a proper license from the Department of State must be obtained. See 22CFR 120-130 for any specific requirements.

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 2 **Flammability:** 4 **Reactivity:** 0 **Special Hazards:** None
Aerosol Storage Code: 3

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 2 **Flammability:** 4 **Reactivity:** 0 **Protection:** X - See PPE section.

Hazardous Material Identification System (HMIS(r)) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS(r) ratings are to be used with a fully implemented HMIS(r) program. HMIS(r) is a registered mark of the National Paint and Coatings Association (NPCA).

Revision Changes:

Section 14: ID Number(s) was modified.

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3M MSDSs are available at www.3M.com

MATERIAL SAFETY DATA SHEET

Product Name: Crystaltex Glazes (Lead free)

Product Code: CTL Series - AP

Manufacturer's Name: American Art Clay Co. Inc.
6060 Guion Road
Indianapolis, IN 46254

Information Number: (800) 374-1600

Emergency Number: (800) 374-1600

Section I – Product Identification

Product Name: Crystaltex Glaze
(Lead free)

Product Class: Ceramic Glaze

Product Size: 16 oz.

CTL 1, 3, 9, 10, 11, 12, 15, 22, 23, 30, 31, 32, 34, 35, 36, 37, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 52, 54, 61, 67, 69, 70, 71 and Class Pack

Section II – Hazardous Ingredients

Reportable Components	CAS#	Vapor Pressure Mm Hg @ Temp	Weight Percent
Water	7732-18-5		
Sodium Borosilicate Frit	65997-18-4		
Clay	1332-58-7		
Flint	14808-60-7		
Gum	9004-32-4		

No reportable quantities of hazardous ingredients are present.

This product carries the “AP” Seal. No hazardous ingredients. Labeling conforms to ASTM D4236.

Section III – Physical / Chemical Characteristics

Boiling Range: NA	Specific Gravity (H2O=1): Less than 2
Vapor Density: Heavier than air.	Evaporation Rate: NA
Coating V.O.C.: NA	Material V.O.C.: NA
Appearance and Odor: Liquid	

Section IV – Fire and Explosion Hazard Data

Flash Point: NA	Method Used: NA
Flammable Limits in Air BY Volume: NA – Lower	NA – Upper
Extinguishing Media: NA	
Special Firefighting Procedures: No fire hazard.	
Unusual Fire and Explosion Hazards: No fire hazard.	

Section V – Reactivity Data

Stability: Stable	Conditions to Avoid: None
Incompatibility (Materials to Avoid): None	
Hazardous Decomposition or Byproducts: Will not occur	
Hazardous Polymerization: Will not occur.	

Section VI – Health Hazard Data

Inhalation Health Risks and Symptoms: None

Skin and Eye Contact Health Risks and Symptoms of Exposure: Eye – rinse eyes with water for 15 minutes. If irritation persists contact physician. Skin – wash hands with soap and water after use.

Skin Absorption Health Risks and Symptoms of Exposure: None

Ingestion Health Risks and Symptoms of Exposure: No hazardous ingredients.

Health Hazards (Acute / Chronic): No hazardous ingredients.

Carcinogenicity: No – NTP Carcinogen No – IARC Monographs No – OSHA Regulated

Medical Conditions Generally Aggravated By Exposure: Unknown

Emergency and First Aid Procedures: Contact your local poison control for further health information.

Section VII – Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Specific steps not necessary.

Waste Disposal Method: Dispose of paper towels in trash and rinse sponge. In manufacturing, dispose of in accordance to Local, State or Federal regulations.

Precautions to be taken in handling and storing: Always keep lid tightly on jar of moist product while not in use or storage. Uncovered product will dry out.

Other Precautions: None

Section VIII – Control Measures

Respiratory Protection: Not needed.

Ventilation: Not needed.

Protective Gloves: Not needed.

Eye Protection: Not needed.

Other Protective Clothing or Equipment: Not needed.

Work / Hygienic Practices: Refer to AMACO Product Encyclopedia & Safety Manual.

Section IX – Disclaimer

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Prepared by: L. Jenkins
1/2014

MATERIAL SAFETY DATA SHEET

Product Name: F Series Glazes Lead Free

Product Code: F Series - AP

Manufacturer's Name: American Art Clay Co., Inc.
6060 Guion Road
Indianapolis, IN 46254

Information Number: (800) 374-1600

Emergency Number: (800) 374-1600

Section I – Product Identification

Product Name: F – Series Glazes Product Class: Ceramic Glazes Product Size: 16oz.

F 1, 10, 11, 15, 20, 21, 22, 23, 25, 30, 40, 41, 42, 43, 50, 51, 52, 53, 54, 55, 57, 58, 60, 61, 65, 66, 70, 71
and Class Packs

Section II – Hazardous Ingredients

Reportable Components	CAS#	Vapor Pressure Mm Hg @ Temp	Weight Percent
Water	7732-18-4		
Sodium Borosilicate Frit	65997-18-4		
Clay	1332-58-7		
Flint	14808-60-7		
Gum	9004-32-4		

No hazardous ingredients. This product carries the “AP” Seal. Labeling conforms to ASTM D4236.

Section III – Physical / Chemical Characteristics

Boiling Range: NA	Specific Gravity (H2O=1): Less than 2
Vapor Density: Heavier than Air.	Evaporation Rate: NA
Coating V.O.C.: NA	Material V. O.C.: NA
Appearance and Odor: Liquid	

Section IV – Fire and Explosion Hazards Data

Flash Point: NA	Method Used: NA
Flammable Limits in Air by Volume: NA - Lower	NA - Upper
Extinguishing Media: NA	
Special Firefighting Procedures: No fire hazard	
Unusual Fire and Explosion Hazards: No fire hazard.	

Section V – Reactivity Data

Stability: Stable	Conditions to Avoid: None.
Incompatibility (Materials to Avoid): None.	
Hazardous Decomposition or Byproducts: Will not occur.	
Hazardous Polymerization: Will not occur.	

Section VI – Health Hazards

Inhalation Health Risks and Symptoms of Exposure: None.

Skin and Eye Contact Health Risks and Symptoms of Exposure: E – Rinse eyes thoroughly with water for 15 minutes. If irritation persists contact physician. Skin – Wash hands with soap and water after using.

Skin Absorption Health Risks and Symptoms of Exposure: None.

Ingestion Health Risks and Symptoms of Exposure: No hazardous ingredients.

Health Hazards (Acute/ Chronic): No hazardous ingredients.

Carcinogenicity: No – NTP Carcinogen No – IARC Monographs No – OSHA Regulated

Medical Conditions Generally Aggravated by Exposure: Unknown.

Emergency First Aid Procedures: Contact you local poison control for further health information.

Section VII _ Precautions for Safe Handling and Use

Steps to be taken in case material released or spilled: Specific steps not necessary.

Waste Disposal Method: Dispose of paper towel in trash and rinse sponge. In manufacturing, dispose of in accordance to Local, State or Federal regulations.

Precautions to be taken in handling and storing always keep lid tightly on jar of moist product while not in use or storage. Uncovered product will dry out.

Other precautions: None.

Section VIII – Control Measures

Respiratory Protection: Not need for brush or sponge application. When spraying, use NIOSH certified mask for dust or mist.

Ventilation: No needed for normal application. When spraying glazes use spray booth.

Protective Gloves: Not needed.

Eye Protection: Not needed.

Other Protective Clothing or Equipment: Not needed.

Work / Hygienic Practices: Refer to AMACO Product Encyclopedia & Safety Manual.

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Prepared by: L. Jenkins
1/2014

MATERIAL SAFETY DATA SHEET

PRODUCT: Lead Free Gloss Glaze (Copper)

Product Code: LG Series - Copper

Manufacturer's Name: American Art Clay Co., Inc.
6060 Guion Road
Indianapolis, IN 46254

Information Number: (800) 374-1600

Emergency Number: (800) 374-1600

Section I – Product Identification

Product Name: Gloss Glazes
(Copper)

Product Class: Ceramic Glazes

Product Size: 16 oz., 1 lb., gal

LG 2, 25, 26, 27, 44, 45, 46 and Class Packs

Section II – Hazardous Ingredients

Reportable Components	CAS#	Vapor Pressure Mm Hg @ Temp	Weight Percent
Copper Carbonate	7492-68-4		
Copper: ACGIH TLV 1mg/M3, OSHA PEL 1mg/M3 @ CU			
Water	7732-18-5		
Sodium Borosilicate Frit	65997-18-4		
Clay	1332-58-7		
Flint	14808-60-7		

This product carries the “CL” Seal. Labeling conforms to ASTM D4236. Contains Copper. Refer to Section VI.

Section III- Physical / Chemical Characteristics

Boiling Range: NA	Specific Gravity (H2O=1): Less than 2
Vapor Density: Heavier than air.	Evaporation Rate: NA
Coating V.O.C.: NA	Material V.O.C.: NA
Appearance and Odor: Liquid / Dry	

Section IV – Fire and Explosion Hazard Data

Flash Point: NA	Method Used: NA
Flammable Limits in Air by Volume: NA - Lower	NA - Upper
Extinguishing Media: NA	
Special Firefighting Procedures: No fire hazard.	
Unusual Fire and Explosion Hazards: No fire hazard.	

Section V – Reactivity Data

Stability: Stable	Conditions to Avoid: None.
Incompatibility (Materials to Avoid): None	
Hazardous Decomposition or Byproducts: Will not occur.	
Hazardous Polymerization: Will not occur	

Section VI – Health Hazard Data

Inhalation Health Risks and Symptoms of Exposure: None.

Skin and Eye Contact Health Risks and Symptoms of Exposure: Eye – rinse eyes thoroughly with water for 15 minutes. If irritation persists contact physician. Skin – wash hands with soap and water after use.

Ingestion Health Risks and Symptoms of Exposure: May be harmful if swallowed. Exposure may cause damage to the kidneys, liver or anemia. If swallowed get prompt medical attention.

Health Hazards (Acute / Chronic): Contains soluble copper. See above.

Carcinogenicity: No - NTP Carcinogen No - IARC Monographs No - OSHA Regulated

Medical Conditions Generally Aggravated by Exposure: Unknown.

Emergency and First Aid Procedures: Contact your local poison control center for further information.

Section VII – Precautions for Safe Handling

Steps to Be Taken In Case Material is released or spilled: Specific Steps not necessary.

Waste Disposal Method: Dispose of paper towel in trash and rinse sponge. In manufacturing, dispose of in accordance to Local, State & Federal regulations.

Precautions to Be Taken in Handling and Storing: Always keep lid tightly on jar of moist product while not in use or storage. Uncovered product will dry out. Do not eat, drink or smoke while using this product.

Other Precautions: **Not for use by children or in healthcare facilities.**

Section VIII – Control Measures

Respiratory Protection: Not needed for brush or sponge application. Product not for spray application.

Ventilation: Not needed.

Protective Gloves: Not needed.

Eye Protection: Not needed.

Other Protective Clothing or Equipment: Not needed.

Work / Hygienic Practices: Refer to AMACO product Encyclopedia & Safety Manual.

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Prepared by: L. Jenkins
1/2013

Material Safety Data Sheet

Product Name: Teacher's Palette

Product Code: TP Lead Free

Manufacturer's Name: American Art Clay Co., Inc.

6060 Guion Road

Indianapolis, IN 46254

Information No.: (800) 374-1600

Emergency No.: (800)-374-1600

Section I – Product Identification

Product Name: TP Series

Product Class: Ceramic Glaze

Product Size: 8 oz, pints, gallon

TP 1 Coal Black, TP 11 Cotton, TP 15 Gray, TP 20 Sky Blue, TP 21 Midnight Blue, TP 22 Blue Green, TP 24 Medium Blue, TP 26 Robin's Egg, TP 30 Carmel, TP 32 Fudge Brown, TP 40 Mint Green, TP 41 Frog Green, TP 42 Granny Smith, TP 43 Green Leaf, TP 51 Grape, TP 52 Raspberry, TP 53 Pig Pink, TP 54 Lilac, TP 56 Scarlet, TP 58 Brick Red, TP 60 Lemon, TP 62 Maize, TP 64 Carrot and TP 65 Pumpkin Class Packs

Section II – Hazardous Ingredients

Reportable Components	CAS#	Vapor Pressure Mm Hg @ Temp	Weight Percent
Water	7732-18-4		
Sodium Borosilicate Frit	65997-18-4		
Clay	1332-18-7		
Flint	14808-60-7		
Gum	9004-32-4		

No hazardous ingredients. This product carries the "AP" seal. Labeling conforms to ASTM D4236.

Section III – Physical/Chemical Characteristics

Boiling Range: NA

Specific Gravity (H2 =1): Less than 2

Vapor Density: NA

Evaporation Rate: NA

Coating V.O.C.: NA

Material V.O.C.: NA

Appearance and Odor: 16 colors. Liquid.

Section IV – Fire and Explosion Hazards Data

Flash Point: NA

Method Used: NA

Flammable Limits in Air by Volume: NA- Lower

NA – Upper

Extinguishing Media: NA

Special Firefighting Procedures: No fire hazard.

Unusual Fire and Explosion Hazards: No fire hazard.

Section V – Reactivity Data

Stability: Stable

Conditions to Avoid: None

Incompatibility (materials to Avoid): None.

Hazardous Decomposition or Byproducts: Will not occur.

Page 2

TP Series (lead free)

Hazardous Polymerization: Will not occur.

Section VI – Health Hazards Data

Inhalation Health Risks and Symptoms of Exposure: No hazards.

Skin and Eye Contact Health Risks and Symptoms of Exposure: Eye – Rinse eyes thoroughly with water for 15 minutes. Skin – Wash hands with soap and water after use.

Skin Absorption Health Risks and Symptoms of Exposure: None. Wash hands with soap and water after use.

Ingestion Health Risk and Symptoms of Exposure: None.

Health Hazards (Acute/Chronic): None. AP Non-toxic.

Carcinogenicity: No – NTP Carcinogen No – IARC Monographs No – OSHA Regulated

Medical Conditions Generally Aggravated by Exposure: Unknown.

Emergency and First Aid Procedures: Contact your local poison control for further health information.

Section VII – Precautions for Safe Handling and Use

Steps to be taken in Case Material is released or spilled: Clean with paper towel and wet sponge.

Waste disposal Method: Dispose of paper towel in trash and rinse sponge. In manufacturing, dispose of in accordance to Local, State or Federal regulations.

Precautions to be taken in handling and storing: Keep in original container and close lid tightly.

Other Precautions: None.

Section VIII _ Control Measures

Respiratory protection: Not needed.

Ventilation: Not needed.

Protective Gloves: Not needed.

Eye Protection: Not needed.

Other Protective Clothing or Equipment: Not needed.

Work/Hygienic Practices: Refer to AMACO Product Safety Encyclopedia.

Section IX – Disclaimer

Information presented here in has been compiled from sources considered to dependable and is accurate to the best of our knowledge and belief but is not guaranteed to be so. Since conditions of use are beyond our control we make no warranties, expressed or implied, except those that may be contained in our written acknowledgement.

Prepared by: L. Jenkins

1/10/2014

MATERIAL SAFETY DATA SHEET

Product: Velvet Underglazes

Product Code: V Series

Manufacturer's Name: American Art Clay Co., Inc.
6060 Guion Road
Indianapolis, IN 46254

Information Number: (800) 374-1600

Emergency Number: (800) 374-1600

Section I – Product Identification

Product Name: V Series Product Class: ceramic Underglazes Product Size: 2 oz., 16 oz.

V 301, 302, 303, 304, 308, 309, 310, 313, 314, 315, 316, 318, 320, 321, 322, 323, 325, 326, 327, 328, 332, 333, 334, 336, 341, 343, 345, 350, 353, 354, 355, 356, 357, 360, 361, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, & 391. Also sets #1, #2, #3, & #4. Class pack 6, Class Pack 12-#1

Section II – Hazardous Ingredients

Reportable Components	CAS#	Vapor Pressure Mm Hg @ Temp	Weight Percent
Water	7732-18-5		
Clay	1332-58-7		
Inorganic Stains, Carbonates or Metal Oxides			
Gum	9004-32-4		
Sodium Borosilicate Frit	65997-18-4		

No reportable quantities of hazardous ingredients are present.

No hazardous ingredients. This product carries the “AP” Seal. Labeling conforms to ASTM D4236.

Section III – Physical / Chemical Characteristics

Boiling Range: NA	Specific Gravity (H2O=1): Less than 2
Vapor Density: Heavier than air.	Evaporation Rate: NA
Coating V.O.C.: NA	Material V.O.C.: NA
Appearance and Odor: Liquid	

Section IV – Fire and Explosion Hazards Data

Flash Point: NA	Method Used: NA
Flammable Limits in Air by Volume: NA – Lower	NA – Upper
Extinguishing Media: NA	
Special Firefighting Procedures: No fire hazard.	
Unusual Fire and Explosion Hazards: No fire hazard.	

Section – V – Reactivity Data

Stability: Stable	Conditions to Avoid: None
Incompatibility (Materials to Avoid): None	
Hazardous Decomposition or Byproducts: Will not occur.	
Product Code: V Series	

Hazardous Polymerization: Will not occur.

Section VI – Health Hazards Data

Inhalation Health Risks and Symptoms of Exposure: None.

Skin and Eye Contact Risks and Symptoms of Exposure: Eye – rinse eyes with water for 15 minutes.

Contact physician if irritation persists. Skin – wash hands with soap and water after use.

Skin Absorption Health Risks and Symptoms of Exposure: None. Wash hands with soap and water after use.

Ingestion Health Risks and Symptoms of Exposure: None. Carries the “AP” Seal.

Health Hazards (Acute / Chronic): None.

Carcinogenicity: N – NTP Carcinogen N – IARC Monographs N – OSHA Regulated

Medical Conditions Generally Aggravated by Exposure: Unknown.

Emergency and First Aid Procedures: Contact your local poison control for further health information.

Section VII – Precautions for Safe Handling and Use

Steps to Be Taken In Case Material are Released or Spilled: Clean with paper towel and wet sponge.

Waste Disposal Method: Dispose of paper towels in trash and rinse sponge. In manufacturing, dispose of in accordance to Local, State or Federal regulations.

Precautions to Be Taken in Handling and Storing: Keep lid tightly on jar of moist product while not in use or storage. Uncovered product will dry out.

Other precautions: None.

Section VIII – Control Measures

Respiratory Protection: Not needed for brush or sponge application. If spraying use a NIOSH certified mask for dust or mist.

Ventilation: Not needed for brush sponge application. If spraying use a spray booth.

Protective Gloves: Not needed.

Eye Protection: Not needed.

Other Protective Clothing or Equipment: Not needed.

Work / Hygienic Practices: Refer to AMACO Product Encyclopedia and Safety Manual.

Section IX – Disclaimer

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Prepared by: L. Jenkins

1/2014



MATERIAL SAFETY DATA SHEET

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Austin Ammonia (Clear, Lemon, Pine, Lavender)

PRODUCT CODE 54200- (00050, 00051, 00046, 00047, 00049, 00052, 00055, 00560)

ISSUE DATE March 25, 2014

EMERGENCY TELEPHONE NUMBERS

MANUFACTURER James Austin Co
STREET ADDRESS 115 Downieville Rd
CITY, STATE, ZIP Mars, PA 16046

Medical Information: 1-866-359-5662
Transportation: 1-800-424-9300 *
* For spill, leak, fire or transport accident emergencies.
Product Information: 1-724-625-1535

SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS No.	% by wt.	OSHA PEL	EXPOSURE LIMITS	
				ACGIH TLV	NIOSH REL
Ammonium hydroxide	1336-21-6	1.00%	35 ppm STEL (as Ammonia)	25 ppm TWA 35 ppm STEL	25 ppm TWA 35 ppm STEL

SECTION 3 -- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Can cause chemical burns.
Harmful or fatal if swallowed.
Eye contact may cause severe irritation.
Vapors are extremely irritating to respiratory tract.
NEVER MIX WITH CHLORINE BLEACH OR OTHER CHLORINATED CHEMICALS. TO DO SO WILL RELEASE TOXIC GASES THAT CAN BE FATAL.

POTENTIAL HEALTH EFFECTS	
INGESTION	Can cause severe damage to mouth, throat and stomach, leading to abdominal pain, nausea, vomiting, collapse and possible death.
INHALATION	Damages airways and lungs. Effects include pulmonary edema, bronchitis, chemical pneumonitis and chronic respiratory disease.
EYE CONTACT	Severely irritating to the eyes. May cause permanent corneal damage, including perforation, ulceration and blindness.
SKIN CONTACT	Can cause severe skin burns with possible blistering and tissue destruction.

SECTION 4 -- FIRST AID MEASURES

INGESTION	If swallowed, DO NOT induce vomiting. Immediately drink a large quantity of water. Follow with citrus juice if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.
INHALATION	If exposed to excessive levels of vapors, remove to fresh air and give artificial respiration if not breathing. The most dangerous consequence of exposure to high levels of ammonia is pulmonary edema; for severe contact, Get immediate medical attention.
EYE CONTACT	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable, and continue flushing for at least 15 minutes, holding eyelids apart to ensure thorough rinsing of the entire eye. Speed is essential to minimize injury. Call a physician immediately.
SKIN CONTACT	Immediately flush skin with plenty of cool running water for at least 15 minutes. Wash with soap and water. If irritation develops or persists, get medical attention. Remove contaminated clothing and shoes; wash before reuse.
NOTE TO PHYSICIAN	Information pertaining to ingestion toxicology, therapy, symptomatology and treatment can be found in <u>Clinical Toxicology of Commercial Products</u> , authored by Gosselin, Smith and Hodge and published by Williams & Wilkins, Baltimore, Maryland. See listing for Ammonia in Therapeutics Index, Section III.

SECTION 5 -- FIRE FIGHTING MEASURES

FLASH POINT / METHOD	None / N.A.	FLAMMABLE LIMITS	Lower:16%; Upper:25% Decomposes at 928 F.
EXTINGUISHING MEDIA	If involved in a fire, use carbon dioxide, dry chemical or water spray.		
SPECIAL FIRE FIGHTING PROCEDURES	Fire fighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool. Use water fog or spray to remove generated ammonia gas from the atmosphere.		
FIRE AND EXPLOSION HAZARDS	Ammonia gas will be liberated at all temperatures, which can be explosive under confined space conditions. Contact between this product and concentrated mineral acids will cause instant boiling and a possible explosion.		

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS	Small spills: Mop up residue and rinse area thoroughly with water. Large spills: Dike or dam spill. Pump to containers or soak up on inert absorbent. Use personal protective equipment and stay upwind of spill.
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SECTION 7 -- HANDLING AND STORAGE

HANDLING PRECAUTIONS	Product is a strongly alkaline material; handle with care, as for all strong chemicals. Keep container tightly closed when not in use. Handle empty containers as if full, due to presence of residual ammonia vapors. Wash thoroughly after handling. NEVER MIX WITH CHLORINE BLEACH OR OTHER CHLORINATED CHEMICALS. TO DO SO WILL RELEASE TOXIC GASES THAT CAN BE FATAL.
STORAGE PRECAUTIONS	Store in a cool, dry, well-ventilated place. Keep away from bleach and acidic materials. Keep from freezing.

SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

HYGIENIC PRACTICES	Observe label precautions; use personal protective equipment. Avoid breathing vapors of this product.
ENGINEERING CONTROLS	Local exhaust ventilation may be required to keep vapors within exposure limits. Facilities using this product must be equipped with an eyewash station.

PERSONAL PROTECTIVE EQUIPMENT

X	RESPIRATOR	Use NIOSH approved respirator if exposure exceeds PEL or TLV limits.
X	GOGGLES / FACE SHIELD	Chemical splash goggles required; also use face shield if exposure is severe
X	APRON	Recommended; PVC, Neoprene or Vinyl acceptable
X	GLOVES	Recommended; use impervious PVC or Neoprene with long gauntlet
X	BOOTS	Recommended to protect shoes and feet when using product for floor cleaning

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear colorless liquid	BOILING POINT	~ 212 deg F
ODOR	Pungent ammonia	FREEZING POINT	32 deg F
pH	10.00 – 12.50	VAPOR PRESSURE	Not established
SPECIFIC GRAVITY	0.995 – 0.996	VAPOR DENSITY	Not established
SOLUBILITY IN WATER	Complete	EVAPORATION RATE	Not determined

SECTION 10 -- STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	X		UNSTABLE	
CONDITIONS TO AVOID	NEVER MIX with hot water or chlorine bleach. Avoid contact with acids or alkalis, oxidizing materials, copper, aluminum, zinc and galvanized metals.					
INCOMPATIBILITY	Contact with strong acids produces exothermic, possibly violent reaction. Contact with strong alkalis promotes the evolution of ammonia gas.					
HAZARDOUS PRODUCTS OF DECOMPOSITION	Ammonia gas and oxides of nitrogen. Chloramines -- from contact with hypochlorite bleach.					
POLYMERIZATION		WILL NOT OCCUR	X		MAY OCCUR	
CONDITIONS TO AVOID	Not applicable					

SECTION 11 -- TOXICOLOGICAL INFORMATION

CARCINOGENICITY

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910, Z

OTHER EFFECTS

ACUTE	Strongly irritating to all tissues on exposure.
CHRONIC	Not determined

MSDS

PRODUCT	Austin Ammonia (clear, lemon, pine, lavender)	CODE	54200	PAGE 4 OF 4
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SECTION 12 -- ECOLOGICAL INFORMATION

BIODEGRADABILITY		CONSIDERED BIODEGRADABLE	X		NOT BIODEGRADABLE	
BOD / COD VALUE	Not established					
ECOTOXICITY	No data available					

SECTION 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD	Small amounts of unused product may be flushed safely to the sanitary sewer with plenty of water. Contact local water board before flushing large amounts. If solidified, large amounts may be disposed of in a sanitary landfill. Contact state or local authorities for additional restrictions.					
RCRA CLASSIFICATION	Non-hazardous					
RECYCLE CONTAINER		YES	X		CODE	2 - HDPE
					NO	

SECTION 14 -- TRANSPORT INFORMATION

DOT CLASSIFICATION		HAZARDOUS			NOT HAZARDOUS	X
DESCRIPTION	Not applicable					
HM CODE	None					

SECTION 15 -- REGULATORY INFORMATION

REGULATORY STATUS

	EPA REGISTERED (UNDER FIFRA)	
	FDA REGULATED	
	KOSHER	
X	SARA TITLE III MATERIAL	Section 304
	USDA AUTHORIZED	

SECTION 16 -- OTHER INFORMATION

NFPA CLASSIFICATION

1	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
0	YELLOW	REACTIVITY
--	WHITE	SPECIAL HAZARD

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by James Austin Company in connection with the use of this information.

MATERIAL SAFETY DATA SHEET

AWESOME[®] NATURAL WINDOW CLEANER

SECTION I - PRODUCT INFORMATION

Manufacturer: The R. F. Thompson Co.
1710 Penn Street (P. O. Box 7167)
St. Joseph, MO 64507

Emergency Telephone: 1-800-891-2426
Plant: (816) 279-0744
Date Prepared: 05/20/2011

Trade Name: AWESOME[®] Natural Window Cleaner
Chemical Family: All Purpose Cleaner

Formulation: Proprietary

SECTION II - HAZARDOUS INGREDIENTS

*** NONE ***

All Components are Biodegradable and GRAS Rated (Generally Recognized As Safe)

SECTION III - PHYSICAL DATA

Boiling Point (° F) _____ 250° F
Specific Gravity (H₂O = 1) _____ 1.025
Evaporation Rate (N-Butyl Acetate = 1) _____ 1
Solubility in Water _____ 100%
pH _____ 10.6
Appearance and Odor _____ Blue or Clear: very slight alcohol odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used PMCC) _____ None
Extinguishing Media _____ CO₂, Dry Chemical
Special Fire Fighting Procedures _____ None
Unusual Fire and Explosion Hazards _____ None

NFPA Designation Flammability - 0 Health - 1 Reactivity - 0 Special - 0

SECTION V - HEALTH HAZARD DATA

Primary Routes of Entry:

Ingestion

Effects of Over Exposure:

Eyes - May irritate eyes

Ingestion - Large amounts of concentrate may cause diarrhea.

Emergency and First Aid Procedures:

Eyes - Flush with large amounts of water. If irritation persists, seek medical attention.

Skin - Wash with water; remove wet clothing

Ingestion - DO NOT INDUCE VOMITING. Have victim rinse mouth thoroughly with water, then immediately drink large amounts of water.

The R. F. Thompson Co.
MATERIAL SAFETY DATA SHEET
AWESOME[®] NATURAL WINDOW CLEANER

SECTION VI - REACTIVITY DATA

Stability_____ Stable
Incompatibility (Materials to Avoid)_____ Oxidizers, Strong Acids
Hazardous Decomposition Products_____ Oxides of Hydrogen, Sulfur, Carbon
Hazardous Polymerization_____ Will Not Occur

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:
Collect and return to container. Flush remaining material down drain.

Waste Disposal Method:
Empty container. Triple rinse with water. Remove all labels and names before disposing of container.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection (Specify Type)_____ None
Ventilation_____ Normal Air Exchange.
Protective Gloves_____ Water Resistant
Eye Protection_____ Safety Glasses
Other Protective Equipment_____ Boots, Apron If Needed

SECTION IX - SPECIAL PRECAUTIONS

Precautions to be taken in handling and storing:
Keep containers closed. Do not use pressure to empty container.
If frozen, thaw and mix to usable condition.

This information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of The R. F. Thompson Co.'s knowledge, or obtained from sources believed by The R. F. Thompson Co. to be accurate, and The R. F. Thompson Co. does not assume any legal responsibility for use or reliance upon same. Customers are encouraged to conduct their own tests. Before using any product, read its label.



Material Safety Data Sheet

Revision Date: 24-May-2010

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name MOORLASTIC 100% ACRYLIC ELAST. WATERPROOF COATING
Product Code 056
Product Class WATER THINNED PAINT
Color White

Manufacturer Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 201-573-9600
www.benjaminmoore.com

Emergency Telephone Number(s)
CHEMTREC: 800-424-9300

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

Chemical Name	CAS-No	Weight % (max)
Limestone	1317-65-3	20
Titanium dioxide	13463-67-7	10
Ethylene glycol	107-21-1	5
Zinc oxide	1314-13-2	5
Silica, mica	12001-26-2	5
Silica, crystalline	14808-60-7	0.5

3. HAZARDS IDENTIFICATION

Emergency Overview

Vapors may be irritating to eyes, nose, throat, and lungs. May cause skin irritation and/or dermatitis.

Appearance liquid

Odor little or no odor

Potential Health Effects

Principal Routes of Exposure Eye contact, skin contact and inhalation.

Acute Effects

Eyes

May cause slight irritation.

Skin

Substance may cause slight skin irritation.

Inhalation

May cause irritation of respiratory tract.

Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Chronic Effects	Repeated contact may cause allergic reactions in very susceptible persons. Contains: Crystalline Silica which has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions None known

HMIS **Health:** 1* **Flammability:** 0 **Reactivity:** 0 **PPE:** -

HMIS Legend

0 - Minimal Hazard

1 - Slight Hazard

2 - Moderate Hazard

3 - Serious Hazard

4 - Severe Hazard

* - Chronic Hazard

X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, Benjamin Moore & Co., has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

4. FIRST AID MEASURES

General Advice	No hazards which require special first aid measures.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.
Notes To Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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Protective Equipment And Precautions For Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Specific Hazards Arising From The Chemical	Closed containers may rupture if exposed to fire or extreme heat.
Sensitivity To Mechanical Impact	No
Sensitivity To Static Discharge	No
Flash Point Data	
Flash Point (°F)	Not applicable
Flash Point (°C)	Not applicable
Flash Point Method	Not applicable
Flammability Limits In Air	
Lower Explosion Limit	Not applicable
Upper Explosion Limit	Not applicable

NFPA **Health:** 1 **Flammability:** 0 **Instability:** 0 **Special:** Not Applicable

NFPA Legend

0 - Not Hazardous
1 - Slightly
2 - Moderate
3 - High
4 - Severe

The ratings assigned by Benjamin Moore & Co. are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
Environmental Precautions	Prevent further leakage or spillage if safe to do so.
Methods For Clean-Up	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.
Other Information	None known

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage	Keep container tightly closed. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

Hazardous Components

Chemical Name	ACGIH	OSHA
Limestone	N/E	15 mg/m ³ - TWA total 5 mg/m ³ - TWA
Titanium dioxide	10 mg/m ³ - TWA	15 mg/m ³ - TWA total
Ethylene glycol	100 mg/m ³ - Ceiling	N/E
Zinc oxide	2 mg/m ³ - TWA 10 mg/m ³ - STEL	15 mg/m ³ - TWA total 5 mg/m ³ - TWA
Silica, mica	3 mg/m ³ - TWA	20 mppcf - TWA
Silica, crystalline	0.025 mg/m ³ - TWA	respirable - (10)/(%SiO ₂ + 2) mg/m ³ TWA respirable - (250)/(%SiO ₂ + 5) mppcf TWA total dust - (30)/(%SiO ₂ + 2) mg/m ³ TWA

Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection

Safety glasses with side-shields.

Skin Protection

Protective gloves and impervious clothing.

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Odor	little or no odor
Density (lbs/gal)	10.7 - 10.9
Specific Gravity	1.25 - 1.35
pH	Not available
Evaporation Rate	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Wt. % Solids	45 - 55
Vol. % Solids	35 - 45
Wt. % Volatiles	45 - 55
Vol. % Volatiles	55 - 65
VOC Regulatory Limit (g/L)	< 100
Boiling Point (°F)	212
Boiling Point (°C)	100

9. PHYSICAL AND CHEMICAL PROPERTIES

Freezing Point (°F)	32
Freezing Point (°C)	0
Flash Point (°F)	Not applicable
Flash Point (°C)	Not applicable
Flash Point Method	Not applicable
Upper Explosion Limit	Not applicable
Lower Explosion Limit	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions To Avoid	Prevent from freezing
Incompatible Materials	No materials to be especially mentioned.
Hazardous Decomposition Products	None under normal use.
Possibility Of Hazardous Reactions	None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product

No information available

Component

Limestone

LD50 Oral: 6,450 mg/kg (Rat) vendor data

Sensitization: No sensitizing effects known.

Titanium dioxide

LD50 Oral: > 24000 mg/kg (Rat)

LD50 Dermal: > 10000 mg/m³ (Rabbit)

LC50 Inhalation (Dust): > 6.82 mg/L (Rat, 4 hr.)

Ethylene glycol

LD50 Oral: 4700 mg/kg (Rat)

LD50 Dermal: 9530 µg/L (Rabbit)

Zinc oxide

LD50 Oral: > 8437 mg/kg (Rat)

LC50 Inhalation (Dust): > 5700 mg/m³ (Rat, 4 hr.)

Silica, crystalline

LD50 Oral: 500 mg/kg (Rat) vendor data

Chronic Toxicity

Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen
Titanium dioxide		2B - Possible Human Carcinogen		Listed
Silica, crystalline	A2	1 - Human Carcinogen		Listed

- Crystalline Silica has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint.
- Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

IARC - International Agency for Research on Cancer

NTP - National Toxicity Program

OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

Product

Acute Toxicity to Fish

No information available

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

Component

Acute Toxicity to Fish

Titanium dioxide

LC50: >1000 mg/L (Fathead Minnow - 96 hr.)

Ethylene glycol

LC50: 8050 mg/L (Fathead Minnow - 96 hr.)

12. ECOLOGICAL INFORMATION

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with federal, state, and local regulations. Dry, empty containers may be recycled in a can recycling program. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

DOT Not regulated

ICAO / IATA Not regulated

IMDG / IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

United States TSCA Yes - All components are listed or exempt.

Canada DSL Yes - All components are listed or exempt.

Federal Regulations

SARA 311/312 hazardous categorization

Acute Health Hazard	No
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
Ethylene glycol	107-21-1	5
Zinc oxide	1314-13-2	5

This product may contain trace amounts of (other) SARA reportable chemicals. Contact Benjamin Moore & Co. for further information.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
Ethylene glycol	107-21-1	5

This product may contain trace amounts of (other) HAPs chemicals. Contact Benjamin Moore & Co. for further information.

State Regulations

California Proposition 65

This product may contain small amounts of materials known to the state of California to cause cancer or reproductive harm.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Louisiana	Rhode Island
Limestone	X	X	X		X
Titanium dioxide	X	X	X		X
Ethylene glycol	X	X	X		X
Zinc oxide	X	X	X		X
Silica, mica	X	X	X		X
Silica, crystalline	X	X	X		X

Legend

X - Listed

16. OTHER INFORMATION

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By

Product Stewardship Department
Benjamin Moore & Co.
360 Route 206 - P.O. Box 4000
Flanders, NJ 07836
866-690-1961

Revision Date:	24-May-2010
Revision Summary	Not available

Disclaimer

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End of MSDS

FLASH POINT: > 250 F PMCC

LEL: Not Applicable

EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Toxic gases may form when product burns.

Closed containers may burst if exposed to extreme heat or fire.

SPECIAL FIRE FIGHTING PROCEDURES:

Cool exposed containers with water. Use self-contained breathing apparatus.

SECTION V HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE - ACUTE:

Inhalation - Irritation of the respiratory tract.

Skin and Eye Contact - Primary irritation.

Ingestion of large amounts could cause serious injury.

EFFECTS OF OVEREXPOSURE - CHRONIC:

IARC has classified Carbon Black as possibly carcinogenic for humans (2B).

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

None expected when used in accordance with Safe Handling and Use Information (Section VIII).

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION

EMERGENCY AND FIRST AID PROCEDURES :

Inhalation - Remove to fresh air. Get medical help for any breathing difficulty.

Eye Contact - Flush thoroughly with water. Call physician.

Skin Contact - Wash with soap and water.

Ingestion - Drink 1 or 2 glasses of water to dilute.

DO NOT induce vomiting. Call physician.

SECTION VI REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION WILL NOT OCCUR

CONDITIONS TO AVOID: Elevated temperatures

HAZARDOUS DECOMPOSITION PRODUCTS:

Burning may produce carbon dioxide and carbon monoxide.

INCOMPATIBILITY (MATERIALS TO AVOID): None reasonably foreseeable.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Flush with water. Absorb with sawdust or rags.

WASTE DISPOSAL METHOD:

Conventional procedures in compliance with local, state and federal regulations. Do not incinerate sealed containers.

SECTION VIII SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:

Use NIOSH approved respirator specified for protection against paint spray mist and sanding dust in restricted or confined areas.

VENTILATION:

Adequate to maintain working atmosphere below T.L.V. and L.E.L.

(See Sect. II for ingredient data and concentrations). Mechanical exhaust may be required in confined areas.

PROTECTIVE GLOVES: Waterproof during repeated contact.

EYE PROTECTION : Splash goggles or safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT: Clothing adequate to protect skin.

HYGIENIC PRACTICES:

Remove and wash clothing before reuse. Wash hands before eating, smoking or using the washroom.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Do not throw or drop containers.

OTHER PRECAUTIONS :

Avoid contact with eyes and prolonged contact with skin or breathing of spray mist or sanding dust.

Close container after each use. Keep out of reach of children. Do not take internally.

SECTION XX

HMIS (Hazardous Materials Identification System)(R) NPCA

HMIS is a recognized workplace Hazard Communications System as required by OSHA (29 CFR 1910.1200). Information on establishing a compliant hazardous communication program using HMIS is available from:

American Labelmark Co., Inc., Labelmaster Division

5724 N. Pulaski Rd., Chicago, IL 60646

1-800-621-5808

The ratings assigned by Benjamin Moore & Co. are only suggested ratings; the contractor/employer has ultimate responsibility for HMIS rating where this system is used.

PERSONAL PROTECTION: This code is left blank on Benjamin Moore & Co. MSDS's as it depends on application technique and the workplace ventilation.

Please read Sections II through IX of this MSDS before deciding on appropriate protective equipment and beginning work. There are codes available for this section which can be obtained from Labelmaster.

Note: There are no SARA reportable materials in this product.

DISCLAIMER

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NOTICE: Removal of old paint by sanding, scraping or other means may generate dust or fumes which contain lead. Exposure to lead dust or fumes may cause adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For additional information, contact the USEPA/Lead Information Hotline at 1-800-LEAD-FYI.



Material Safety Data Sheet

Revision Date: 08-Feb-2012

Revision Number: 6

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SUPER HIDE LATEX SEMI-GLOSS ENAMEL
Product Code 283
Product Class WATER THINNED PAINT
Color All

Manufacturer Benjamin Moore & Co.
101 Paragon Drive
Montvale, NJ 07645
Phone: 201-573-9600
www.benjaminmoore.com

Emergency Telephone Number(s)
CHEMTREC: 800-424-9300

2. COMPOSITION INFORMATION ON COMPONENTS

Hazardous Components

Chemical Name	CAS-No	Weight % (max)
Titanium dioxide	13463-67-7	20
Kaolin	1332-58-7	10
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	1
Acetic acid ethenyl ester	108-05-4	0.5

3. HAZARDS IDENTIFICATION

Emergency Overview

Vapors may be irritating to eyes, nose, throat, and lungs. May cause skin irritation and/or dermatitis.

Appearance liquid

Odor little or no odor

Potential Health Effects

Principal Routes of Exposure Eye contact, skin contact and inhalation.

Acute Effects

Eyes May cause slight irritation.
Skin Substance may cause slight skin irritation.
Inhalation May cause irritation of respiratory tract.
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects Repeated contact may cause allergic reactions in very susceptible persons.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions None known

HMIS **Health:** 1* **Flammability:** 0 **Reactivity:** 0 **PPE:** -

HMIS Legend

0 - Minimal Hazard

1 - Slight Hazard

2 - Moderate Hazard

3 - Serious Hazard

4 - Severe Hazard

* - Chronic Hazard

X - Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

4. FIRST AID MEASURES

General Advice	No hazards which require special first aid measures.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.
Notes To Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Protective Equipment And Precautions For Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Specific Hazards Arising From The Chemical	Closed containers may rupture if exposed to fire or extreme heat.

Sensitivity To Mechanical Impact	No
Sensitivity To Static Discharge	No
Flash Point Data	
Flash Point (°F)	Not applicable
Flash Point (°C)	Not applicable
Flash Point Method	Not applicable
Flammability Limits In Air	
Lower Explosion Limit	Not applicable
Upper Explosion Limit	Not applicable

NFPA **Health:** 1 **Flammability:** 0 **Instability:** 0 **Special:** Not Applicable

NFPA Legend

0 - Not Hazardous
 1 - Slightly
 2 - Moderate
 3 - High
 4 - Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
Environmental Precautions	Prevent further leakage or spillage if safe to do so.
Methods For Clean-Up	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.
Other Information	None known

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage	Keep container tightly closed. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits**Hazardous Components**

Chemical Name	ACGIH	OSHA
---------------	-------	------

Titanium dioxide	10 mg/m ³ - TWA	15 mg/m ³ - TWA total
Kaolin	2 mg/m ³ - TWA	15 mg/m ³ - TWA total 5 mg/m ³ - TWA
Distillates (petroleum), solvent-dewaxed heavy paraffinic	N/E	N/E
Acetic acid ethenyl ester	10 ppm - TWA 15 ppm - STEL	N/E

Legend

ACGIH - American Conference of Governmental Industrial Hygienists Exposure Limits

OSHA - Occupational Safety & Health Administration Exposure Limits

N/E - Not Established

Engineering Measures

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment**Eye/Face Protection**

Safety glasses with side-shields.

Skin Protection

Protective gloves and impervious clothing

Respiratory Protection

In case of insufficient ventilation wear suitable respiratory equipment.

Hygiene Measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	liquid
Odor	little or no odor
Density (lbs/gal)	8.9 - 10.4
Specific Gravity	1.06 - 1.25
pH	Not available
Evaporation Rate	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Wt. % Solids	30 - 50
Vol. % Solids	20 - 40
Wt. % Volatiles	50 - 70
Vol. % Volatiles	60 - 80
VOC Regulatory Limit (g/L)	< 150
Boiling Point (°F)	212
Boiling Point (°C)	100
Freezing Point (°F)	32
Freezing Point (°C)	0
Flash Point (°F)	Not applicable
Flash Point (°C)	Not applicable
Flash Point Method	Not applicable
Upper Explosion Limit	Not applicable
Lower Explosion Limit	Not applicable

10. STABILITY AND REACTIVITY**Chemical Stability**

Stable under normal conditions.

Conditions To Avoid

Prevent from freezing

Incompatible Materials

No materials to be especially mentioned.

Hazardous Decomposition Products

None under normal use.

Possibility Of Hazardous Reactions

None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity****Product**

No information available

ComponentTitanium dioxide

LD50 Oral: > 10000 mg/kg (Rat)

LD50 Dermal: > 10000 mg/m³ (Rabbit)

LC50 Inhalation (Dust): > 6.82 mg/L (Rat, 4 hr.)

Kaolin

LD50 Oral: > 5000 mg/kg (Rat)

Acetic acid ethenyl ester

LD50 Oral: 2900 mg/kg (Rat)

LD50 Dermal: 2335 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 114000 mg/m³ (Rat, 4 hr.)**Chronic Toxicity****Carcinogenicity***The information below indicates whether each agency has listed any ingredient as a carcinogen:*

Chemical Name	ACGIH	IARC	NTP	OSHA Carcinogen
Titanium dioxide		2B - Possible Human Carcinogen		Listed
Distillates (petroleum), solvent-dewaxed heavy paraffinic		1 - Human Carcinogen		
Acetic acid ethenyl ester	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans	2B - Possible Human Carcinogen		Listed

- Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

IARC - International Agency for Research on Cancer

NTP - National Toxicity Program

OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION**Ecotoxicity Effects****Product****Acute Toxicity to Fish**

No information available

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

Component**Acute Toxicity to Fish**

Titanium dioxide

LC50: >1000 mg/L (Fathead Minnow - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method**

Dispose of in accordance with federal, state, and local regulations. Dry, empty containers may be recycled in a can recycling program. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

14. TRANSPORT INFORMATION

DOT

Not regulated

14. TRANSPORT INFORMATION

ICAO / IATA Not regulated

IMDG / IMO Not regulated

15. REGULATORY INFORMATION**International Inventories**

United States TSCA Yes - All components are listed or exempt.
Canada DSL Yes - All components are listed or exempt.

Federal Regulations**SARA 311/312 hazardous categorization**

Acute Health Hazard	No
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
Acetic acid ethenyl ester	108-05-4	0.5

This product may contain trace amounts of (other) SARA reportable chemicals. Contact the preparer for further information.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

<u>Chemical Name</u>	<u>CAS-No</u>	<u>Weight % (max)</u>
Acetic acid ethenyl ester	108-05-4	0.5

This product may contain trace amounts of (other) HAPs chemicals. Contact the preparer for further information.

State Regulations**California Proposition 65**

This product may contain small amounts of materials known to the state of California to cause cancer or reproductive harm.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Louisiana	Rhode Island
Titanium dioxide	X	X	X		X
Kaolin	X	X	X		X
Acetic acid ethenyl ester	X	X	X	X	X

Legend

X - Listed

16. OTHER INFORMATION

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Prepared By

Product Stewardship Department
Benjamin Moore & Co.
360 Route 206 - P.O. Box 4000
Flanders, NJ 07836
866-690-1961

Revision Date:

08-Feb-2012

Revision Summary

Not available

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End of MSDS

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (*As Used on Label and List*)
ODOR SORB

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name CAPITAL SOAP PRODUCTS	Emergency Telephone Number 973 333 6100
Address (<i>Number, Street, City, State, and ZIP Code</i>) 33 Branch Street	Telephone Number for Information 973 333 6100
Paterson, New Jersey 07524	Date Prepared November 2008
ODOR SORB	Signature of Preparer (<i>optional</i>)

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(<i>optional</i>)
ATTAPULGITE CLAY	CAS # 8031 18 3			
PINE SAWDUST	None Assigned			
PINE OIL	CAS # 8002 09 3			
H.M.I.S. RATING: HEALTH 0 FLAMMIBILITY 1 REACTIVITY 0				
<i>THIS PRODUCT CONTAINS NO HAZARDOUS INGREDIENTS AS DEFINED BY OSHA</i>				

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	.42
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	NOT SOLUBLE IN WATER		
Appearance and Odor	OFF WHITE OR BEIGE – PINE SCENTED		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) 325° f/OPEN CUP	Flammable Limits	LEL	UEL
Extinguishing Media WATER OR DRY CHEMICAL			
Special Fire Fighting NONE REQUIRED			
Unusual Fire and Explosion Hazards NONE ESTABLISHED			

(Reproduce locally)

OSHA 174, Sept. 1985

Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	STABLE & NON-REACTIVE
Incompatibility (<i>Materials to Avoid</i>)		NONE	
Hazardous Decomposition or Byproducts		NONE	
Hazardous Polymerization	May Occur		Conditions to Avoid NONE
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? None Known	Skin?	Ingestion?
Health Hazards (<i>Acute and Chronic</i>) Prolonged or repeated exposure can cause drying, defatting and dermatitis of skin			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
Signs and Symptoms of Exposure NONE			
Medical Conditions			
Generally Aggravated by Exposure	Harmful if swallowed. May cause nausea, vomiting		
Emergency and First Aid Procedures INDUCE VOMITING - CONSULT A PHYSICIAN			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled	MATERIALS REQUIRE NO SPECIAL PROCEDURES
Waste Disposal Method	SUITABLE METHODS OF GOOD HOUSEKEEPING MEETING APPLICABLE LOCAL REGULATIONS
Precautions to Be taken in Handling and Storing	NONE REQUIRED
Other Precautions - NONE	

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>)		NONE REQUIRED
Ventilation	Local Exhaust	Special
	Mechanical (<i>General</i>)	Other
Protective Gloves- Not Required		Eye Protection -Not Required
Other Protective Clothing or Equipment Not Required		
Work/Hygienic Practices		WASH HANDS AFTER USE

DISCLAIMER OR EXPRESSED AND IMPLIED WARRANTIES

The data in this Material Safety Date Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. The information set forth herein is based on technical data that Capital Soap Products believes to be reliable as of the date hereof. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. Nothing herein is to be taken as license to operate under or a recommendation to infringe any patents.

MATERIAL SAFETY DATA SHEET

RATINGS:
4-EXTREME
3 SERIOUS
2-SIGNIFICANT
1-SLIGHT

0-MINIMUM

HMIS HAZARD RATING:	
HEALTH	2
FLAMMABILITY	See NFPA rank
REACTIVITY	0
PERSONAL PROTECTION:	A

PRODUCT NAME: ENVIRO-SEP
PRODUCT CODE: B76
PRODUCT CLASS: AEROSOL
NFPA Rank – Level 3

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: CELLO PROFESSIONAL PRODUCTS
ADDRESS: 1354 Old Post Road, Havre de Grace, MD 21078
EMERGENCY PHONE – INFOTRAC 24 HOURS: 800-535-5053
INFORMATION PHONE: 800-638-4850

DATE: Revised 7-13-11 in Section 9

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT
Isobutane/Propane	75-28-5/74-98-6	Wt% = 35
Ethanol	64-17-5	Wt% = 37

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE: INHALATION of vapor or spray mist. EYE or SKIN contact with the product, vapor or spray mist

EFFECTS OF OVEREXPOSURE: EYES: Irritation. SKIN: Prolonged or repeated exposure may cause irritation. INHALATION: Inhalation of mist may be irritating. Ingestion: Not an entry route.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes while lifting the upper and lower eyelids and rotating the eyeball. Get immediate medical attention.

SKIN: Wash affected area thoroughly with soap and water. If irritation persists get medical attention.

INHALATION: Move to fresh air. If irritation persists get medical attention

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT : 95.4F (LIQUID CONCENTRATE)

EXTINGUISHING MEDIA: Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Fire fighters should observe all precautions that apply to any fire where chemicals are stored.

SPECIAL FIRE FIGHTING PROCEDURES: Aerosol cans may rupture in severe heat

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear recommended Personal Protection Equipment. If product leaks wash away with water, follow label directions-dispose of Can in the recommended manner. Abide by Federal, State, and Local regulations.

Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition. Consult NFPA Code. Use approved Bonding and Grounding procedures. Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE Store containers in an upright position, in a cool dry place, away from heat sources. Do not destroy or deface the label.

Use in a well ventilated area.

EYE PROTECTION: Wear safety spectacles with sideshields.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY	0.900 (liquid concentrate)	SOLUBILITY IN WATER	Complete
PHYSICAL STATE:	Pressurized Liquid	pH	11.0
Odor:	Lysol type, Ammonia		

Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable	CONDITIONS TO AVOID	Heat sources
--------------------------	----------------------------	--------------

Section 11 -- TOXICOLOGICAL INFORMATION

None

Section 12 -- ECOLOGICAL INFORMATION

None

Section 13 -- DISPOSAL CONSIDERATIONS

See section 6 above.

Section 14 – TRANSPORTATION INFORMATION

This product is a DOT hazardous material. BILL of LADING (aerosols): "Consumer commodity, ORM-D (aerosols)"

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION: No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

TSCA CERTIFICATION: All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16-- OTHER INFORMATION

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: UNIVERSAL CARPET SPOT REMOVER
PRODUCT CODE: B34 (formerly 2638)
PRODUCT CLASS: LIQUID CLEANING COMPOUND

RATINGS:
4-EXTREME
3 SERIOUS
2-SIGNIFICANT
1-SLIGHT
0-MINIMUM

HMIS HAZARD RATING:	
HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION:	B

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: CELLO PROFESSIONAL PRODUCTS
ADDRESS: 1354 Old Post Road, Havre de Grace, MD 21078
EMERGENCY PHONE - INFOTRAC 24 HOURS: 800-535-5053
INFORMATION PHONE: 800-638-4850

REVISED: 7/1/06

SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg	@ TEMP	WEIGHT PERCENT
-----------------------	------------	-------------------------	--------	-------------------

*** NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT ***

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

Indicates hazardous chemical(s) subject to the reporting requirements of section 312 of Title III and of 40 CFR 370.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT : 212°F	SPECIFIC GRAVITY (H ₂ O=1): 1.00
VAPOR DENSITY: Heavier than air	VAPOR PRESSURE : Not Determined
EVAPORATION RATE: Slower than water	SOLUBILITY IN WATER: Completely
APPEARANCE : Clear liquid	ODOR : Pleasant Floral
pH : 7.5 ± 0.5	VOLATILE : 96.13%

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT : NONE FLASH METHOD: SETA FLASH FLAMMABLE LIMITS IN AIR BY VOLUME: LOWER: N/A UPPER: N/A
EXTINGUISHING MEDIA: If involved in a fire use foam, CO₂, or water fog
SPECIAL FIREFIGHTING PROCEDURES: Spray water on cartons involved in fire to keep them from igniting. Wear self-contained breathing apparatus due to the possible toxic fumes from plastic containers and or the vaporization of potentially harmful chemicals. (SEE SECTION II).
UNUSUAL FIRE AND EXPLOSION HAZARDS: Area will become slippery if material is released.

SECTION V - REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Extreme heat or freezing temperatures
INCOMPATIBILITY (MATERIALS TO AVOID): Acids, strong alkalies and oxidants
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Normal products of combustion-carbon dioxide and carbon monoxide
HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Not considered a hazard.
SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Can cause irritation to eyes, causing corneal damage. Can also cause skin irritation and defatting
SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: No effects of exposure expected due to absorption or contact. May possibly cause irritation or dermatitis in some individuals upon prolonged contact.
INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Single dose ingestions are not considered hazardous. Extremely large doses could cause injury.
HEALTH HAZARDS (ACUTE AND CHRONIC): Will cause only slight irritation of skin regardless of extent or exposure
CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No not listed
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Existing dermatological conditions may be aggravated by overexposure
EMERGENCY AND FIRST AID PROCEDURES:
IF IN EYES: Immediately flush with plenty of warm water for 15 minutes while keeping eyelids apart for maximum irrigation. If irritation persists contact physician.
IF ON SKIN: Wash off with large amounts of soap and water. If irritation persists contact a physician. Wash contaminated clothing before re-use.
IF INHALED: If victim complains of headache, dizziness or nausea, remove victim to fresh air. If breathing becomes difficult or condition persists, contact a physician.
IF INGESTED: Drink no more than 2 glasses of water and induce vomiting. Never give anything by mouth to an unconscious victim. Seek medical attention

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Dike area to contain material. Area may become slippery. Absorb product onto porous material such as sand, diatomaceous earth or commercial absorbent material. Shovel up into leak proof containers.
WASTE DISPOSAL METHOD: Consult local, state and or federal authorities for proper disposal
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store near acids, oxidizers, alkalies and base metals. Keep from excessive heat and keep from freezing. Do not store near consumables. Keep out of reach of children.
OTHER PRECAUTIONS: Read and follow all directions. Use in a manner consistent with product intent.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: None needed for normal use.
VENTILATION: Normal ventilation adequate.
PROTECTIVE GLOVES: Chemical resistant gloves recommended
EYE PROTECTION: Safety splash goggles recommended
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Source of water for washing is recommended.
WORK/HYGIENIC PRACTICES: Wash hands after use and before eating, drinking, or smoking. Remove contaminated clothing and wash before reuse.

SECTION IX - REGULATORY INFORMATION

ALL INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE US TOXIC SUBSTANCE CONTROL ACT (TSCA) INVENTORY.

This product is not a DOT hazardous material. BILL OF LADING (all sizes): "Compound, cleaning and/or polishing"

The ingredients from Section II are subject to the following reporting requirements:

MA - The Massachusetts Hazardous Substance List

NJ - The New Jersey Right-to-Know Hazardous Substance List

PA - The Pennsylvania Hazardous Substance List

SECTION X - DISCLAIMER

The information contained herein has been developed based upon current available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended or implied as to the applicability of this information to the users intended purpose or for the consequences of its use or misuse.

CHROMA AUSTRALIA PTY LTD ACN 001 594 609
17 Mundowi Rd / PO Box 3B
Mount Kuring-Gai, NSW 2080 AUSTRALIA
www.chromaonline.com
PH: (02) 9457 9922 FAX: (02) 9457 8082
EMERGENCY PH: As above, or Poisons Information Centre

Date of publication: 11th December 2013



Material Safety Data Sheet

Classified as **NON-HAZARDOUS** according to the criteria of Safe Work Australia (formerly ASCC – Australian Safety & Compensation Council [formerly NOHSC – National Occupational Health & Safety Commission])

IDENTIFICATION

Product name: Chromacryl™ Students Acrylic (Fluoro Colours Only)

Other names: ----

U.N. No: N/A

Hazchem: N/A

Dangerous Goods Class & Sub Risk: N/A

Poisons Schedule: N/A

Manufacturer's Product Codes: Various

Use: Students grade acrylic paint.

™ *Trademark of Chroma Australia Pty Ltd or an affiliated company

PHYSICAL DESCRIPTION / PROPERTIES

Appearance: Thick paste, various colours

Flash Point (°C): N/A

Boiling Point/Melting Point (°C): N/A

Flammability limits (%): N/A

Vapour Pressure (pascals or mm of Hg at 25°C): N/A

Solubility in Water (g/L): Soluble

Specific Gravity: Approx 1g/ml

Other properties: Slight ammonia smell

COMPONENTS

Chemical Entity	CAS No.	Concentration
Water	7732-18-5	Commercial In Confidence
Acrylic Polymers	Commercial In Confidence	Commercial In Confidence
Pigments, various	Commercial In Confidence	Commercial In Confidence
Filler	68855-54-9	7.5%
Thickener	N/A	5%
Defoamer	265-155-0	0.5%
pH Stabiliser	124-68-5	0.4%
Ammonia, Aqueous	1336-21-6	0.625%
Surfactant	9014-85-1, 26264-06-2	0.125%
Dispersant	N/A	0.09375%
Preservative	2634-33-5, 1310-66-3	0.02625%

NOTE: The physical data presented above are typical values only and should not be construed as a specification.

HEALTH HAZARD / TOXICOLOGICAL INFORMATION

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms of effects may occur if the product is mishandled.

Inhalation: Inhalation of vapour may cause slight irritation

Ingestion: No adverse effects expected.

Eye Contact: Direct eye contact may cause slight irritation, redness and/or swelling.

Skin Contact: Prolonged or repeated contact may cause irritation.

Toxicological Data

This product carries the A.P. Non-Toxic Seal and is certified by a toxicologist in association with the Art & Craft Materials Institute (ACMI), Boston MA 02110 USA

FIRST AID MEASURES

Ingestion: Have affected person drink two (2) glasses of water. Never give anything by mouth to an unconscious person.

Inhalation: Inhalation of vapour may cause irritation; Move to fresh air. If irritation persists, consult a physician.

Skin contact: Prolonged or repeated contact may cause skin irritation; Wash affected areas thoroughly with cool water. If irritation persists, consult a physician.

Eye contact: Direct eye contact may cause irritation; Flush eyes with large amounts of cool water. If irritation persists, consult a specialist.

Advice to doctor: Treat symptomatically.

PRECAUTIONS FOR USE

Exposure limit(s): No Occupational Exposure Limits (OEL) value has been assigned.

Exposure controls

Engineering measures: Ensure adequate natural or mechanical ventilations. Keep containers closed when not in use.

Protective measures: Facilities storing or utilizing this material should be equipped with water facilities and appropriate ventilation equipment.

Individual protection measures

For general use Personal Protection Equipment (PPE) is not required; however a detailed risk assessment on the use of this product taking in to account the work environment and handling methods may indicate PPE is recommended.

Eye/face protection: General type safety goggles may be worn.

Skin protection: Single use nitrile gloves may be worn. Wash material immediately off skin with cool soapy water.

Respiratory protection: Not necessary if used in a ventilated environment

SAFE HANDLING & TRANSPORT INFORMATION

Safe handling: Avoid contact with eyes. Wash hands with cool soapy water immediately after use. Personal clothing protection is recommended.

Storage: Keep from freezing. Store in a cool, dry place away from direct sunlight. Shake/stir well before use. Ensure lid is tightly closed when not in use.

Ambient storage temperature: 1°C - 38°C

Australian Dangerous Goods (ADG) Code: Not regulated (not dangerous for transport)

Classification for sea transport (IMO-IMDG): Not regulated (not dangerous for transport)

Classification for air transport (IATA/ICAO): Not regulated (not dangerous for transport)

Hazchem Code: None allocated

FIRE / EXPLOSION HAZARD

Flammability: Non-flammable

Suitable extinguishing equipment: Use extinguishing media appropriate to surrounding fire conditions.

Specific hazards during fire fighting: Material can boil above 100°C/212°F.

Special protective equipment for fire fighters: Wear self-contained breathing apparatus and protective clothing.

DISPOSAL ADVICE

Small quantities

Do not pour left over product into drains. Unwanted product should be brushed onto newspaper and allowed to dry to be disposed of via domestic waste collection. Soak/Wipe up smaller spills with a rag and dispose of via domestic waste collection.

Large quantities

Clean up immediately. Prevent spill and cleaning runoff from entering sewers, drains and open bodies of water. Contain spill with sand or other inert material and transfer to containers for disposal. Avoid walking through spilled product as it may be slippery. Contact local waste disposal authority for disposal advice.

OTHER INFORMATION

Allergy information: Due care has been taken to ensure this product does not contain any food derivatives or food-based products however we cannot guarantee the same applies to any of our suppliers of the individual components of this product.

Revision: 11th December 2013 – MSDS reformatted and extra information added.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates to only the specific material designated and may not be valid for such material when used in combination with any other materials or in any process unless specified in the text. Since Chroma Australia Pty Ltd cannot anticipate or control conditions of use, each user prior to using the product should assess and control the risks arising from usage of the product.



The Clorox Company
1221 Broadway
Oakland, CA 94612
Tel. 1-510-271-7000

Material Safety Data Sheet

I Product: GARDEN FRESH PINE-SOL® MULTI-SURFACE CLEANER								
Description: CLEAR, PINK, SLIGHTLY VISCOUS LIQUID WITH A FLORAL, POWDERY, CITRUS ODOR								
Other Designations	Distributor	Emergency Telephone Nos.						
	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies, call 1-800-446-1014. For Transportation Emergencies, call 1-800-424-9300 (Chemtrec).						
II Health Hazard Data		III Hazardous Ingredients						
Eye irritant. No medical conditions are known to be aggravated by exposure to this product. <u>FIRST AID:</u> <u>EYE CONTACT:</u> Immediately rinse with water for 15 minutes. If irritation persists, call a doctor. <u>INGESTION:</u> Drink a glassful of water. Call a doctor or poison control center. <u>SKIN CONTACT:</u> Rinse with plenty of water. If irritation persists, call a doctor. <u>INHALATION:</u> Move person to fresh air. If breathing problems develop, call a doctor.		<table border="1"><thead><tr><th><u>Ingredient</u></th><th><u>Concentration</u></th><th><u>Worker Exposure Limit</u></th></tr></thead><tbody><tr><td>Alkyl alcohol ethoxylates CAS # 66455-15-0</td><td>1 - 5%</td><td>Not established.</td></tr></tbody></table> None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.	<u>Ingredient</u>	<u>Concentration</u>	<u>Worker Exposure Limit</u>	Alkyl alcohol ethoxylates CAS # 66455-15-0	1 - 5%	Not established.
<u>Ingredient</u>	<u>Concentration</u>	<u>Worker Exposure Limit</u>						
Alkyl alcohol ethoxylates CAS # 66455-15-0	1 - 5%	Not established.						
IV Special Protection and Precautions		V Transportation and Regulatory Data						
<u>Hygienic Practices:</u> Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods. <u>Engineering Controls:</u> Use local exhaust to minimize exposure to product mist. <u>Personal Protective Equipment:</u> Wear safety glasses. Wear rubber or neoprene gloves for sensitive skin or if there is the potential for repeated or prolonged skin contact.		<u>DOT/IATA/IMDG:</u> Not restricted. <u>EPA - SARA Title III/CERCLA:</u> This product is regulated under Sections 311/312. This product contains no chemicals that are regulated under Section 313 or under Section 304/CERCLA. <u>TSCA 8(b):</u> All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing. <u>TSCA 12(b):</u> This product is not subject to TSCA 12(b) reporting requirements.						
VI Spill Procedures/Waste Disposal		VII Reactivity Data						
<u>Spill Procedures:</u> Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material. <u>Waste Disposal:</u> Dispose of in accordance with all applicable federal, state, and local regulations.		Stable under normal use and storage conditions.						
VIII Fire and Explosion Data		IX Physical Data						
<u>Flash Point:</u> >93°C (closed cup) <u>Fire Extinguishing Agents:</u> Dry chemical, carbon dioxide (CO ₂), foam, or water spray.		pH..... 10 - 11 Specific gravity.....~1.0 Solubility in waterSoluble Viscosity..... ~30 cP						



Ajax Oxygen Bleach Cleanser

This industrial Material Safety Data Sheet is not intended for consumers and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Version 1.2

Revision Date 05/17/2012

Print Date 05/17/2012

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Ajax Oxygen Bleach Cleanser
MSDS Number : 200000025181
CAS-No. : Not applicable - product is a mixture
General Use : A formulated multi-purpose cleaner

Company : Colgate-Palmolive Co
300 Park Avenue
New York, NY 10022

Telephone :
Emergency telephone number : For emergencies involving spill, leak, fire, exposure or accident call CHEMTREC (24hr) at (800) 424-9300 or (703) 527-3887.

Medical Emergency (24HR): For MEDICAL EMERGENCIES involving this product call:
(888) 489-3861

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance : White

Potential Health Effects

Eye contact : Causes eye irritation on direct contact.

Skin contact : May cause skin irritation upon prolonged contact.

Inhalation : No adverse effects due to inhalation are expected.

Ingestion : May be harmful if swallowed in large quantities.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

OSHA-REGULATED COMPONENTS (present at a concentration of > or = 1%)

Chemical Name	CAS-No.	Concentration *
LIMESTONE	1317-65-3	60.00 - 100.00
SODIUM CARBONATE	497-19-8	5.00 - 10.00
SODIUM DODECYL BENZENE SULFONATE	25155-30-0	1.00 - 5.00



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*All concentrations are present by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Carcinogenicity:

Listed Carcinogens: The following components, present at a concentration of $\geq 0.1\%$, are listed as carcinogens or potential carcinogens by either the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), OSHA or ACGIH

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

SECTION 4. FIRST AID MEASURES

First aid procedures

- | | |
|---------------------|--|
| Eye contact | : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists. |
| Skin contact | : Flush skin with large amounts of water. If irritation develops and persists, get medical attention. |
| Inhalation | : Remove victim to fresh air. Get medical attention, if symptoms persist. |
| Ingestion | : Drink 8 ounces of clear water. Get medical attention. |

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

- | | |
|--------------------|---------------------------|
| Flash point | : Remarks: not applicable |
|--------------------|---------------------------|

Fire fighting

- | | |
|-------------------------------------|--|
| Suitable extinguishing media | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
|-------------------------------------|--|

Protective equipment and precautions for firefighters

- | | |
|---------------------------|---|
| Special protective | : Self-contained breathing apparatus and full protective clothing |
|---------------------------|---|



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equipment for firefighters should be worn when fighting chemical fires.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protection recommended in Section 8 of the MSDS.

**Methods for containment /
Methods for cleaning up** : Cover with inert, absorbent material and remove to disposal container. Spill area may be slippery. Flush with plenty of water.

SECTION 7. HANDLING AND STORAGE

Storage

**Requirements for storage
areas and containers** : Store at controlled room temperature at 20-25°C (68-77°F).

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Chemical Name	CAS-No.	Value	Exposure Limits	Source	Notes
LIMESTONE	1317-65-3	REL	10 mg/m3	NIOSH/GUIDE	Total
		REL	5 mg/m3	NIOSH/GUIDE	Respirable.
		PEL	15 mg/m3	OSHA_TRANS	Total dust.
		PEL	5 mg/m3	OSHA_TRANS	Respirable fraction.
		TWA	15 mg/m3	Z1A	Total dust.
		TWA	5 mg/m3	Z1A	Respirable fraction.

Engineering Controls : In an industrial work environment, no special precautions or control measures are required.



Ajax Oxygen Bleach Cleanser

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Personal protective equipment

- Protective measures** : In an industrial work environment, if a splash is likely, chemical goggles may be needed. Prolonged skin contact may require protective goggles. For consumer use, no unusual precautions are necessary.
- General Hygiene Considerations** : In an industrial work environment, avoid eye and prolonged skin contact.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : solid
Appearance : White
- Flash point** : Note: not applicable
- pH** : 10.5
- Density** : 1.04 g/cm³

SECTION 10. STABILITY AND REACTIVITY

- Materials to avoid** : Remarks: Strong oxidizing agents
- Hazardous decomposition products** : Note: None known.
- Hazardous reactions** : Hazardous polymerisation does not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

This product has not been tested as a whole. However, this formula was reviewed by expert toxicologists in the Product Safety Assurance Department of Colgate-Palmolive and is determined to be safe for its intended use. This review has taken into consideration available safety-related information including information on individual ingredients, similar formulas and potential ingredient interactions. This review is a component of the hazard determination used to prepare the statements in Section 3 of the MSDS.

SECTION 12. ECOLOGICAL INFORMATION

No data available



Ajax Oxygen Bleach Cleanser

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SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Any disposal practice must be in compliance with local, state and federal laws and regulations (contact local or state environment agency for specific rules). Do not dump in sewers, any body of water or on the ground.

SECTION 14. TRANSPORT INFORMATION

DOT : Not regulated.

TDG : Not regulated.

IATA : Not regulated.

IMDG : Not regulated.

SECTION 15. REGULATORY INFORMATION

US Regulations

SARA

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A) : SULFUR DIOXIDE

CERCLA Hazardous Substance List (40 CFR 302.4) - Reportable Quantity : 58411 lbs

SODIUM DODECYL BENZENE SULFONATE

Clean Air Act

Clean Water Act



Ajax Oxygen Bleach Cleanser

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**Clean Water Act Section 311
Hazardous Substances (40 CFR
117.3)** : SODIUM DODECYL BENZENE
SULFONATE

State Regulations

**Massachusetts Right-To-
Know List** : LIMESTONE
SODIUM DODECYL BENZENE SULFONATE
SULFUR DIOXIDE

**New Jersey Right-To-
Know List** : SODIUM CARBONATE
LIMESTONE
SODIUM DODECYL BENZENE SULFONATE

**Pennsylvania Right-To-
Know List** : SODIUM CARBONATE
LIMESTONE
SODIUM DODECYL BENZENE SULFONATE

Canada

**Canadian Workplace Hazardous Materials
Information System (WHMIS) Listed Material** : SODIUM CARBONATE
SODIUM DODECYL BENZENE SULFONATE

Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

Other Information

SECTION 16. OTHER INFORMATION

Further information

MSDS Number : 200000025181



Ajax Oxygen Bleach Cleanser

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Disclaimer: The information on this sheet is limited to the material identified and is believed by the Colgate-Palmolive Company to be correct based on its knowledge and information as of the date noted. Colgate makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material.

Safety Data Sheet

Material Name: CRAYOLA® DOUGH

SDS ID: BNSSS106

* * *Section 1 - PRODUCT AND COMPANY IDENTIFICATION* * *

Material Name: CRAYOLA® DOUGH

CRAYOLA LLC
1100 Church Lane
Easton, PA 18044
support@crayola.com

Phone: 1-800-272-9652

Health Emergency - Call local Poison Control Center
Transportation Emergency: 1-800-535-5053

Synonyms

CRAYOLA DOUGH; PRODUCT COLORS/CODES: 57-0015-0-XXX; 57-0016

Product Use

Arts and Crafts

* * *Section 2 - HAZARDS IDENTIFICATION* * *

EMERGENCY OVERVIEW

Color: various colors

Physical Form: solid

Odor: pleasant odor

POTENTIAL HEALTH EFFECTS

Inhalation: none

Skin Contact: none

Eye Contact: none

Ingestion: none

* * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

CAS	Component	Percent	Symbol(s)	Risk Phrase(s)
Not Available	Product has been certified as non-toxic by the art and creative materials institute, inc. and conforms to astm D-4236 standard practice for labeling art materials for acute and chronic adverse health hazards.	100	---	---

* * *Section 4 - FIRST AID MEASURES* * *

Inhalation

It is unlikely that emergency treatment will be required. Remove from exposure. Get medical attention, if needed.

Skin

It is unlikely that emergency treatment will be required. If adverse effects occur, wash with soap or mild detergent and large amounts of water. Get medical attention, if needed.

Safety Data Sheet

Material Name: CRAYOLA® DOUGH

SDS ID: BNSSS106

Eyes

It is unlikely that emergency treatment will be required. Wash with large amounts of water or normal saline until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

Ingestion

Contact local poison control center or physician immediately.

Section 5 - FIRE FIGHTING MEASURES

See Section 9 for Flammability Properties

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Flammable Properties

Slight fire hazard.

Extinguishing Media

regular dry chemical, carbon dioxide, water, regular foam

Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.

Section 6 - ACCIDENTAL RELEASE MEASURES

Occupational spill/release

Collect spilled material in appropriate container for disposal.

Section 7 - HANDLING AND STORAGE

Handling Procedures

Use methods to minimize dust.

Storage Procedures

Store and handle in accordance with all current regulations and standards. See original container for storage recommendations. Keep separated from incompatible substances.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

ACGIH and EU have not developed exposure limits for any of this product's components.

Ventilation

Based on available information, additional ventilation is not required.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face

Eye protection not required under normal conditions.

Protective Clothing

Protective clothing is not required under normal conditions.

Glove Recommendations

Protective gloves are not required under normal conditions.

Respiratory Protection

No respirator is required under normal conditions of use.

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Safety Data Sheet

Material Name: CRAYOLA® DOUGH

SDS ID: BNSSS106

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Appearance:	Not available
Color:	various colors	Physical Form:	solid
Odor:	pleasant odor	Odor Threshold:	Not available
Melting Point:	Not available	Boiling Point:	Not applicable
Vapor Pressure:	Not applicable	Vapor Density (air = 1):	Not applicable
Density:	Not available	Specific Gravity (water = 1):	Not available
Water Solubility:	Not available	Coeff. Water/Oil Dist:	Not available

Section 10 - STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and pressure.

Conditions to Avoid

None reported.

Materials to Avoid

oxidizing materials

Decomposition Products

oxides of carbon

Possibility of Hazardous Reactions

Will not polymerize.

Section 11 - TOXICOLOGICAL INFORMATION

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

RTECS Acute Toxicity (selected)

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, or DFG.

RTECS Irritation

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

Safety Data Sheet

Material Name: CRAYOLA® DOUGH

SDS ID: BNSSS106

Section 14 - TRANSPORT INFORMATION

US DOT Information

No Classification assigned.

TDG Information

No Classification assigned.

ADR Information

No Classification assigned.

RID Information

No Classification assigned.

IATA Information

No Classification assigned.

ICAO Information

No Classification assigned.

IMDG Information

No Classification assigned.

Section 15 - REGULATORY INFORMATION

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No

Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

Canada

Component Analysis - Inventory

No information is available.

Safety Data Sheet

Material Name: CRAYOLA® DOUGH

SDS ID: BNSSS106

* * *Section 16 - OTHER INFORMATION* * *

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

End of Sheet BNSSS106

Safety Data Sheet

Material Name: CRAYOLA® SCHOOL GLUE

SDS ID: BNSSS231

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name: CRAYOLA® SCHOOL GLUE

CRAYOLA LLC
1100 Church Lane
Easton, PA 18044
support@crayola.com

Phone: 1-800-272-9652

Health Emergency - Call local Poison Control Center
Transportation Emergency: 1-800-535-5053

Synonyms

CRAYOLA SCHOOL GLUE; PRODUCT CODE(S): 04-1950; 04-2547; 04-2580; 04-2582; 04-5220; 04-5380; 04-5557; 04-5672; 04-5678; 04-5679; 04-5680; 04-5685; 04-5718; 04-5770; 04-6006; 04-8210; 04-8218; 04-8219; 56-1104; 56-1108; 56-0300; 66-1104; 66-1108; 74-4163; 78-1430; 78-1431; 78-1490; 78-1480; 78-1502; 78-1140; 78-1170

Product Use

Arts and Crafts

Section 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Color: white

Physical Form: liquid

Odor: faint odor

POTENTIAL HEALTH EFFECTS

Inhalation: none

Skin Contact: irritation

Eye Contact: irritation

Ingestion: none

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component	Percent	Symbol(s)	Risk Phrase(s)
Not Available	Product has been certified as non-toxic by the art and creative materials institute, inc. and conforms to astm D-4236 standard practice for labeling art materials for acute and chronic adverse health hazards.	100	---	---

Section 4 - FIRST AID MEASURES

Inhalation

It is unlikely that emergency treatment will be required. Remove from exposure. Get medical attention, if needed.

Safety Data Sheet

Material Name: CRAYOLA® SCHOOL GLUE

SDS ID: BNSSS231

Skin

It is unlikely that emergency treatment will be required. If adverse effects occur, wash with soap or mild detergent and large amounts of water. Get medical attention, if needed.

Eyes

It is unlikely that emergency treatment will be required. Wash with large amounts of water or normal saline until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

Ingestion

Contact local poison control center or physician immediately.

Section 5 - FIRE FIGHTING MEASURES

See Section 9 for Flammability Properties

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Flammable Properties

Slight fire hazard.

Extinguishing Media

regular dry chemical, carbon dioxide, water, regular foam

Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.

Thermal Decomposition Products

Combustion: oxides of carbon

Section 6 - ACCIDENTAL RELEASE MEASURES

Occupational spill/release

Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

Section 7 - HANDLING AND STORAGE

Storage Procedures

Store and handle in accordance with all current regulations and standards. See original container for storage recommendations.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

ACGIH and EU have not developed exposure limits for any of this product's components.

Ventilation

Based on available information, additional ventilation is not required.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face

Eye protection not required under normal conditions.

Protective Clothing

Protective clothing is not required under normal conditions.

Glove Recommendations

Protective gloves are not required under normal conditions.

Safety Data Sheet

Material Name: CRAYOLA® SCHOOL GLUE

SDS ID: BNSSS231

Respiratory Protection

No respirator is required under normal conditions of use.

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	Not available
Color:	white	Physical Form:	liquid
Odor:	faint odor	Odor Threshold:	Not available
pH:	3 - 6	Melting Point:	Not available
Boiling Point:	100 °C	Flash Point:	none
Evaporation Rate:	Not available	Vapor Pressure:	17.5 mmHg approximate
Vapor Density (air = 1):	Not available	Density:	Not available
Specific Gravity (water = 1):	<1.1 approximate	Water Solubility:	Not available
Coeff. Water/Oil Dist:	Not available	Viscosity:	20000 - 50000 cP
Volatility:	70 - 72 %		

Section 10 - STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and pressure.

Conditions to Avoid

None reported.

Materials to Avoid

alcohols, oxidizing materials

Decomposition Products

oxides of nitrogen

Thermal Decomposition Products

Combustion: oxides of carbon

Possibility of Hazardous Reactions

Will not polymerize.

Section 11 - TOXICOLOGICAL INFORMATION

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

RTECS Acute Toxicity (selected)

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, or DFG.

RTECS Irritation

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

Safety Data Sheet

Material Name: CRAYOLA® SCHOOL GLUE

SDS ID: BNSSS231

Section 12 - ECOLOGICAL INFORMATION

Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

Section 14 - TRANSPORT INFORMATION

US DOT Information

Not regulated as a hazardous material.

TDG Information

Not regulated as dangerous goods.

ADR Information

Not regulated as dangerous goods.

RID Information

Not regulated as dangerous goods.

IATA Information

Not regulated as dangerous goods.

ICAO Information

Not regulated as dangerous goods.

IMDG Information

Not regulated as dangerous goods.

Section 15 - REGULATORY INFORMATION

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No

Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

Canada

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS Classification: Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

Safety Data Sheet

Material Name: CRAYOLA® SCHOOL GLUE

SDS ID: BNSSS231

Component Analysis - Inventory

No information is available.

* * *Section 16 - OTHER INFORMATION* * *

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

End of Sheet BNSSS231

Safety Data Sheet

Material Name: CRAYOLA® PREMIER & ARTISTA II® TEMPERA
PAINTS

SDS ID: BNSSS201

* * *Section 1 - PRODUCT AND COMPANY IDENTIFICATION* * *

Material Name: CRAYOLA® PREMIER & ARTISTA II® TEMPERA PAINTS

CRAYOLA LLC
1100 Church Lane

Phone: 1-800-272-9652

Easton, PA 18044
support@crayola.com

Health Emergency - Call local Poison Control Center
Transportation Emergency: 1-800-535-5053

Synonyms

CRAYOLA PREMIER & ARTISTA II TEMPERA PAINTS; CRAYOLA PREMIER TEMPERA/POSTER PAINT. STANDARD & FLUORESCENT PRODUCT; PRODUCT CODE(S): PREMIER TEMPERA; 44-1997-X-XXX; 54-1116-X-XXX; 54-1216-X-XXX; 54-1232-X-XXX; 54-1997; 007 BROWN; 033-PEACH; 034-YELLOW; 036 ORANGE; 038-RED; 40-VIOLET(PURPLE); 042-BLUE; 044-GLOWING GREEN; 048-TURQUOISE; 051-BLACK; 053-WHITE; 069-MAGENTA; 083-GOLD; 084-SILVER; 093-FL ELECTRIC BLUE; 094-FL RED; 095-FL ORANGE YELLOW; 096-FL CHARTRUOSE; 097- FL SHOCKING PINK; ARTISTA WASHABLE TEMPERA; 54-3115-X-XXX; 54-3132-X-XXX; 306-BLUE; 333-PEACH; 334-YELLOW; 336-ORANGE; 338-RED; 340-VIOLET; 344-GREEN; 348-TURQUOISE; 351-BLACK; 353-WHITE; 357-BROWN; 369-MAGENTA; 009-FL YELLOW; 020-ORANGE; 030-ORANGE RED; 040-RED; 060-MAGENTA; 070-BLUE; 080-GREEN; 090-PINK; 54-1106; 54-1206; 54-1208; 54-1208G; 54-1208S; 54-1216G; 54-1216S; 54-1264; 54-3108; 54-3181; 54-3182; 54-3183; 54-3115F; 54-3128; 54-3164; BIG YELLOW BOX FRIENDS ON THE FLY-BUTTERFLIES (78-1240-0-000); FRIENDS ON THE FLY-SEA CREATURES (78-1250-0-000); JUST IN CHIME (78-1280-0-000)

Product Use

Arts and Crafts

* * *Section 2 - HAZARDS IDENTIFICATION* * *

EMERGENCY OVERVIEW

Color: various colors

Physical Form: liquid

Odor: odorless

POTENTIAL HEALTH EFFECTS

Inhalation: none

Skin Contact: none

Eye Contact: none

Ingestion: none

* * *Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS* * *

CAS	Component	Percent	Symbol(s)	Risk Phrase(s)
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Safety Data Sheet

Material Name: **CRAYOLA® PREMIER & ARTISTA II® TEMPERA PAINTS**

SDS ID: **BNSSS201**

Not Available	Product has been certified as non-toxic by the art and creative materials institute, inc. and conforms to astm D-4236 standard practice for labeling art materials for acute and chronic adverse health hazards.	100	---	---
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*****Section 4 - FIRST AID MEASURES*****

Inhalation

It is unlikely that emergency treatment will be required. Remove from exposure. Get medical attention, if needed.

Skin

It is unlikely that emergency treatment will be required. If adverse effects occur, wash with soap or mild detergent and large amounts of water. Get medical attention, if needed.

Eyes

It is unlikely that emergency treatment will be required. Wash with large amounts of water or normal saline until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

Ingestion

Contact local poison control center or physician immediately.

*****Section 5 - FIRE FIGHTING MEASURES*****

See Section 9 for Flammability Properties

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Flammable Properties

Slight fire hazard.

Extinguishing Media

regular dry chemical, carbon dioxide, water, regular foam

Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.

*****Section 6 - ACCIDENTAL RELEASE MEASURES*****

Occupational spill/release

Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

*****Section 7 - HANDLING AND STORAGE*****

Storage Procedures

Store and handle in accordance with all current regulations and standards. See original container for storage recommendations. Keep separated from incompatible substances.

*****Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION*****

Component Exposure Limits

ACGIH and EU have not developed exposure limits for any of this product's components.

Ventilation

Based on available information, additional ventilation is not required.

Safety Data Sheet

Material Name: CRAYOLA® PREMIER & ARTISTA II® TEMPERA
PAINTS

SDS ID: BNSSS201

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face

Eye protection not required under normal conditions.

Protective Clothing

Protective clothing is not required under normal conditions.

Glove Recommendations

Protective gloves are not required under normal conditions.

Respiratory Protection

No respirator is required under normal conditions of use.

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	Not available
Color:	various colors	Physical Form:	liquid
Odor:	odorless	Odor Threshold:	Not available
pH:	Not available	Melting Point:	Not available
Boiling Point:	Not available	Flash Point:	No data available
Evaporation Rate:	Not available	Vapor Pressure:	Not available
Vapor Density (air = 1):	Not available	Density:	Not available
Specific Gravity (water = 1):	Not available	Water Solubility:	Not available
Coeff. Water/Oil Dist:	Not available	Viscosity:	Not available
Volatility:	Not available		

Section 10 - STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and pressure.

Conditions to Avoid

None reported.

Materials to Avoid

oxidizing materials

Decomposition Products

oxides of carbon

Possibility of Hazardous Reactions

Will not polymerize.

Section 11 - TOXICOLOGICAL INFORMATION

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

RTECS Acute Toxicity (selected)

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

Safety Data Sheet

Material Name: CRAYOLA® PREMIER & ARTISTA II® TEMPERA
PAINTS

SDS ID: BNSSS201

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, or DFG.

RTECS Irritation

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

* * *Section 12 - ECOLOGICAL INFORMATION* * *

Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components.

* * *Section 13 - DISPOSAL CONSIDERATIONS* * *

Disposal Methods

Dispose in accordance with all applicable regulations.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

* * *Section 14 - TRANSPORT INFORMATION* * *

US DOT Information

Not regulated as a hazardous material.

TDG Information

Not regulated as dangerous goods.

ADR Information

Not regulated as dangerous goods.

RID Information

Not regulated as dangerous goods.

IATA Information

Not regulated as dangerous goods.

ICAO Information

Not regulated as dangerous goods.

IMDG Information

Not regulated as dangerous goods.

* * *Section 15 - REGULATORY INFORMATION* * *

Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No

Component Analysis - State

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

Safety Data Sheet

Material Name: CRAYOLA® PREMIER & ARTISTA II® TEMPERA
PAINTS

SDS ID: BNSSS201

Canada

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS Classification: Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

Component Analysis - Inventory

No information is available.

* * *Section 16 - OTHER INFORMATION* * *

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

End of Sheet BNSSS201



Material Safety Data Sheet

Prang Half Pan Watercolors

9700448

1. Chemical Product and Company Identification

Company Identification Dixon Ticonderoga Company
195 International Parkway
Heathrow, FL 32746-5036
Telephone: 800-824-9430

Date prepared: May 7, 2003

Last revised: Jul 29, 2009

Emergency call: 800-824-9430

Product Name Prang Half Pan Watercolors

Product Code(s) 08000, 81000, 01600, 82000, 08001, 08002, 08003, 08004, 08005, 08006, 08007, 08008, 08009, 08010, 08011
08012, 08013, 08015, 08016, 08018, 08019

2. Composition/Information On Ingredients

Component	CAS Reg. No	Percent Weight
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Products bearing the CP Certified Products or AP Approved Products seals of the Art and Creative Materials Institute's, Inc. are certified in a program of toxicological evaluation by a medical expert, subject to review by the Institute's Toxicological Advisory Board, to contain no materials in sufficient quantities to be toxic or injurious to humans or cause acute or chronic health problems.

Conforms to ASTM D-4236

This product is not considered to be a hazardous substance as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200)

3. Hazards Identification

Emergency Overview Not an acute hazard- conforms to ASTM D-4236

CAUTION!

Packaging may be subject to ignition by fire and may release toxic or other irritating gases

4. First Aid Measures

Eye Contact	Flush eyes large amounts of water for at least fifteen minutes. Contact physician
Skin Contact	Wash skin with soap and water. Seek medical attention in the unlikely event that irritation occurs
Ingestion	Unlikely to be toxic by ingestion, but seek medical attention
Inhalation	No applies

5. Fire Fighting Measures

Extinguishing Media	Carbon dioxide, dry chemical or foam recommended. Apply water to cool exposed closed containers
Special Fire Fighting Procedures	Self contained breathing apparatus (SCBA) and full protective equipment recommended
Unusual Fire and Explosion Hazards	Packaging may be subject to ignition by fire and may release toxic gases

Flammability Data

Flash Point	No data
Flammability limits	No data
Auto-ignition temperature	No data
Dust cloud ignition temperature	No data
Dust layer ignition temperature	No data

HMIS Ratings	
Health	1
Flammability	0
	0
Protective Equipment	A

6. Accidental Release Measures

Small spill Sweep or wipe up material. Place spilled material into appropriate waste containers for disposal

Large spill Sweep or wipe up material. Place spilled material into appropriate waste containers for disposal

7. Handling and Storage

Handling Contents will stain. The use of smocks and gloves to protect personal clothing is suggested.
Wash hands and surface after use.

Storing Do not store near heat or open flame

Continued on next page

MATERIAL SAFETY DATA SHEET

Sanford NA
2711 Washington Boulevard
Bellwood, IL 60104
Phone: 708-547-8650 or 800-323-0749

MSDS #: 83000

Page 1 of 2

Emergency Medical Number: 888-786-0972

Creation Date: October 20, 2003

6100 284
6100 285

425.

Section One: Product Information

Product Name: Expo Dry Erase Markers
Colors: Black, Red, Blue, Green, Yellow, Orange, Brown, Purple

Sanford is a member of The Art and Creative Materials Institute, Inc. This product is certified by the Institute to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236 and is labeled with the AP Non Toxic Seal. Products bearing the AP Approved Product Seal of The Art and Creative Materials Institute, Inc. are certified in a program of toxicological evaluation by a medical expert, subject to review by the Institute Toxicology Advisory Board, to contain no materials in sufficient quantities to be toxic or injurious to humans, or to cause acute toxicity or chronic health problems.

Section Two: Composition

Methyl Isobutyl ketone (108-10-1), pigments, resins, n-butyl acetate (123-86-4)

Section Three: Hazards Identification

This product is considered safe under normal use conditions.

Section Four: First Aid Measures

Inhalation: This product is considered safe under normal use conditions.
Skin Contact: This product is considered safe under normal use conditions.
Eye Contact: This product is considered safe under normal use conditions.
Ingestion: This product is considered safe under normal use conditions.

Section Five: Fire Fighting Measures

Flash Point: 60F (CC)
Flammability Limits (% by volume): Lower: 1.4% Upper: Not available
Extinguishing Media: As appropriate for surrounding area
Special Fire Fighting Measures: None

Unusual Fire and Explosion Hazards: None

Section Six: Accidental Release Measures

In Case of Spill or Accidental Release: Wipe up with absorbent material.

Section Seven: Handling and Storage

Handling: Do not shake marker
Storage: Keep cap on marker when not in use. Store markers horizontally.

1. Chemical product and Company Identification

Company Identification Dixon Ticonderoga Company
195 International Parkway
Heathrow, FL 32746-5036
Telephone: 800-824-9430

Date prepared: May 8, 2003
Last revised: July 29, 2009

Emergency call: 800-824-9430

Product Name **Prang Ready to Use Paint**

Product Code(s) 20801, 20802, 20803, 20804, 20805, 20806, 20807, 20808, 20809, 20818, 20819, 20834, 21601, 21602, 21603, 21604, 21605, 21606, 21607, 21608, 21609, 21618, 21619, 21634, 21696, 22801, 22802, 22803, 22804, 22805, 22806, 22807, 22808, 22809, 22818, 22819, 22834, 23201, 23202, 23203, 23204, 23205, 23206, 23207, 23208, 23209, 23218, 23219, 23234

2. Composition/Information On Ingredients

Component	CAS Reg. No	Percent Weight
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Products bearing the CP Certified Products or AP Approved Products seals of the Art and Creative Materials Institute's, Inc. are certified in a program of toxicological evaluation by a medical expert, subject to review by the Institute's Toxicological Advisory Board, to contain no materials in sufficient quantities to be toxic or injurious to humans or cause acute or chronic health problems.

Conforms to ASTM D-4236

This product is not considered to be a hazardous substance as defined under OSHA's Hazard Communication Standard (29 CFR 1910.1200)

3. Hazards Identification

Emergency Overview Not an acute hazard- conforms to ASTM D-4236

CAUTION!

Packaging may be subject to ignition by fire and may release toxic or other irritating gases

4. First Aid Measures

Eye Contact	Flush eyes large amounts of water for at least fifteen minutes. Contact physician
Skin Contact	Wash skin with soap and water. Seek medical attention in the unlikely event that irritation occurs
Ingestion	Unlikely to be toxic by ingestion, but seek medical attention
Inhalation	No applies

5. Fire Fighting Measures

Extinguishing Media	Carbon dioxide, dry chemical or foam recommended. Apply water to cool exposed closed containers
Special Fire Fighting Procedures	Self contained breathing apparatus (SCBA) and full protective equipment recommended
Unusual Fire and Explosion Hazards	Packaging may be subject to ignition by fire and may release toxic gases

Flammability Data

Flash Point	No data
Flammability limits	No data
Auto-ignition temperature	No data
Dust cloud ignition temperature	No data
Dust layer ignition temperature	No data

HMIS Ratings	
Health	1
Flammability	0
Reactivity	0
Protective Equipment	A

6. Accidental Release Measures

Small spill	Sweep or wipe up material. Place spilled material into appropriate waste containers for disposal
Large spill	Sweep or wipe up material. Place spilled material into appropriate waste containers for disposal

7. Handling and Storage

Handling	Contents may stain. The use of smocks to protect personal clothing is suggested. Wash hands and surface after use.
Storing	Do not store near heat or open flame

Continued on next page

8. Exposure Controls/Personal Protection

Engineering Controls	The use of local ventilation is recommended
Personal protection	No special skin protection required. Wash skin if irritation is experienced. Eye protection is recommended

9. Physical and Chemical Properties

Physical State	Liquid
Appearance	Assorted colored liquids
Color	Various colors
Odor	Slight tempera paint type odor
pH	No data
Specific gravity	No data
Boiling point	No data
Freezing/melting point	No data
Evaporation rate	No data
Solubility	No data
Volatility	No data

10. Stability and Reactivity

General	This product is stable and hazardous polymerization will not occur
Incompatibility	None known
Hazardous decomposition	As with all burning organic matter, carbon monoxide and other toxic fumes may be released

11. Toxicological Information

Acute/Chronic Toxicity	Products bearing the CP Certified Products or AP Approved products seals of the Art and Creative
Carcinogenicity	Material's Institute are certified in a program of toxicological evaluation by a medical expert, subject to
Mutagenicity	review by the Institute's Toxicological Advisory Board to contain no materials in sufficient quantities to be toxic or injurious to humans or cause acute or chronic health problems. Conforms to ASTM D-4236

12. Ecological Information

This product has not been evaluated for overall environmental effects

13. Disposal Considerations

Contain and place in approved container. Dispose of per Local, State, and Federal regulations

14. Transportation Information

DOT Classification	Not regulated (US)	UN/NA Number	Not regulated
TDG Classification	Not regulated (Canada)	IMO/IMDG Classification	Not regulated
ADR/RID Classification	Not regulated (Europe)	ICAO/IATA Classification	Not regulated

15. Regulatory Information

OSHA Hazard Communication Status	This product is not considered to be a hazardous substance under OSHA's Federal Hazard Communication Standard 29 CFR 1910.1200
Toxic Substances Control Act (TSCA) Status	All ingredients of this material has been reported to the US EPA and are included in the TSCA inventory

16. Other Information

For further product safety information call 800-824-9430

Validated and Verified by Dixon Ticonderoga Co.
July 29, 2009

This information contained herein is based on data considered accurate. However no warranty is expressed or implied regarding the accuracy of these data or results obtained from the use thereof. Dixon Ticonderoga company assumes no responsibility for personal damage caused by the product. Users assume all risks associated with use.



Material Safety Data Sheet

E

1. Chemical Product and Company Identification

DESCRIPTION: ELMER'S WASHABLE SCHOOL GLUE
PRODUCT TYPE: PVAC BASED ADHESIVE.
APPLICATION: FOR PRODUCT CODES SEE SECTION 16

· Manufacturer/Supplier Information

MSDS Prepared by:	Emergency Phone Number
Elmer's Products, Inc.	Poison Control Center
1 Easton Oval	1-888-516-2502
Columbus, OH 43219	
For additional health, safety or regulatory information, call 1-888-435-6377	
Call 1-800-848-9400 to place an order or request additional MSDSs.	

2. Composition, Information on Ingredients

No hazardous ingredients known to company.

3. Hazards Identification

3.1 Emergency Overview

Appearance	Milky white liquid
Odor	Mild acetic aroma
Not an immediate health hazard.	

· HMIS Rating

HEALTH = 0 (minimal)

FLAMMABILITY = 0 (minimal)
REACTIVITY = 0 (minimal)

3.2 Potential Health Effects

- Immediate Hazards**

INGESTION: No hazards known to company.
INHALATION: No hazards known to company.
SKIN: No hazards known to company.
EYES: No hazards known to company.

- Delayed Hazards**

None of the components present in this product at concentrations equal to or greater than 0.1% have been listed by NTP, classified by IARC, nor regulated by OSHA as a carcinogen.

4. First Aid Measures

INGESTION: If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other additional treatment directions.
EYES: Immediately flush eyes with plenty of water. Call a physician if irritation persists.

5. Fire Fighting Measures

Autoignition Temperature Not available
Upper/Lower Flammable Limits Not applicable
Up/Lower Explosive Limits, % by Vol Not applicable
Flash Point Not applicable
Will not burn unless water has evaporated. Dried material may burn.
In case of fire, water should be used to keep fire-exposed containers cool.

6. Accidental Release Measures

Soak up with absorbent material and remove to a chemical disposal area. Prevent entry into natural bodies of water.

7. Handling and Storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practices.

7.2 Storage

Keep from freezing.
Store in a cool, dry place.
Keep containers tightly closed.

8. Exposure Controls/Personal Protection

8.1 Exposure Controls

No special control measures necessary under normal conditions of use.

8.2 Personal Protection

No special protection necessary.

8.3 Exposure Guidelines

None established

9. Physical and Chemical Properties

Percent Volatiles	70
pH @ 25 C	4.7
Specific Gravity	1.05
Appearance	Milky white liquid
Autoignition Temperature	Not available
Boiling Point	100 deg C
Vapor Density (Air=1)	< 1
Vapor Pressure, mm Hg @ 20 C	17
Evaporation Rate (Butyl Acetate=1)	< 1

Upper/Lower Flammable Limits	Not applicable
Up/Lower Explosive Limits, % by Vol	Not applicable
Flash Point	Not applicable
Freezing Point	0 deg C
Odor	Mild acetic aroma
Odor Threshold, ppm	Not available
Solubility in Water	Dispersible
Coefficient of Water/Oil Distrib.	Not available

10. Stability and Reactivity

Normally stable as defined in NFPA 704-12(4-3.1).

- Conditions to Avoid:**

Exposure to heat, flame and incompatibles.

- Incompatibilities:**

Strong acids and alkaline materials.

- Decomposition products may include:**

CO, CO2.

- Hazardous polymerization:**

Will not occur.

- Other Hazards:**

None known to company.

11. Toxicological Information

INGESTION:	Not toxic orally when tested as described in 16 CFR Part 1500.3 (c)(1) and (2).
INHALATION:	Not toxic by inhalation when tested as described in 16 CFR Part 1500.3 (c)(1) and (2).
SKIN ABSORPTION:	Not toxic dermally when tested as described in 16 CFR Part 1500.3 (c)(1) and (2).
SKIN:	Not an irritant when tested as described in 16 CFR Part

1500.41.
EYES: Not an irritant when tested as described in 16 CFR
Part 1500.42.

12. Ecological Information

Not determined.

13. Disposal Considerations

Recover free liquid. Absorb residue and dispose of according to local, state/provincial, and federal requirements.

14. Transport Information

14.1 U.S. Department of Transportation (DOT)

The data provided in this section is for information only and may not be specific to your package size. You will need to apply the appropriate regulations to properly classify your shipment for transportation.
Non-Regulated.

14.2 Canadian Transportation of Dangerous Goods (TDG)

Non-Regulated.

15. Regulatory Information (Selected Regulations)

15.1 U.S. Federal Regulations

- OSHA Hazard Communication Standard 29CFR1910.1200**

This material is not a "health hazard" or a "physical hazard" as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200

- **SARA Title III: Section 311/312**

Does not meet any hazard category

- **SARA Title III Section 313 and 40 CFR Part 372**

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

None required per SARA TITLE III SECTION 313.

- **TSCA Section 8(b) Inventory**

All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

15.2 Canadian Regulations

- **Workplace Hazardous Materials Information System (WHMIS)**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

Not a controlled product

- **Canadian Environmental Protection Act (CEPA)**

All reportable chemical substances are listed on the Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

- **National Pollutant Release Inventory (NPRI)**

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory.

None required.

16. Other Information

AP (Non-Toxic): Products bearing the AP (Non-Toxic) Product Seal of The Art & Creative Materials Institute, Inc. (ACMI) are certified in a program of toxicological evaluation by a medical expert to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. This program is reviewed by ACMI's Toxicological Advisory Board. These products are certified by ACMI to be labeled in accordance with the chronic hazard labeling standard, ASTM D-4236 and Federal Law, P.L. 100-695. In addition, there is no physical hazard as defined within 29 CFR Part 1910.1200(c).

MSDS covers items:

U.S.: E134, E301, E304, E308, E330, E340, E1304, E1500

Canada: 60300, 60307, 60308, 60310, 60331, 60341

. User's Responsibility

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

. Disclaimer



SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States or Canadian patent. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

CURRENT ISSUE: 14-JAN-08
PREVIOUS ISSUE: 05-OCT-07

MATERIAL SAFETY DATA SHEET

Page 1 of 3

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Envirox H2Orange2 Concentrate 117		DATE: October 27, 2011	
PRODUCT NUMBER: 117			
TRADE NAME: Envirox H2Orange2 Concentrate GENERAL USE: Water Soluble Cleaner CHEMICAL FAMILY: Surfactant Blend PRODUCT DESCRIPTION: Amber/Clear Liquid with Citrus Odor.			
MANUFACTURER: EnvirOx LLC		DATE PREPARED: October 27, 2011 SUPERSEDES: March 8, 2011	
ADDRESS (NUMBER, STREET, P.O. BOX) P.O. Box 2327, 1938 E. Fairchild St.		TELEPHONE NUMBER FOR INFORMATION / Customer Service 1-217-442-8596	
(CITY, STATE AND ZIP CODE) Danville, IL. 61834-2327		COUNTRY USA	
CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER  1-800-255-3924 1-813-248-0585 North America Toll Free International			

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Hydrogen Peroxide	1-5	7722-84-1	231-765-0	None	None

Notes: All SARA Title III materials have been reported. All ingredients contained in this formula are listed on the Toxic Substances Control Act (TSCA) Chemical Inventory. **Proprietary non-hazardous ingredients not listed.**

SECTION 3 - HAZARDS IDENTIFICATION

INHALATION:
Not expected to be a significant route of exposure. Inhalation of mists may cause mild irritation.

SKIN:
May cause skin irritation - especially in cases of persistent contact. Dry skin or stinging sensation.

EYES:
May cause mild to moderate eye irritation from splashing or contact with mists.

INGESTION:
May cause stomach upset, including vomiting and/or nausea. Product is only mildly toxic by ingestion.

CARCINOGENICITY:

NTP? NO	IARC MONOGRAPHS? NO	OSHA REGULATED? NO
CALIFORNIA, Prop.65?	NO	

SECTION 4 - FIRST AID MEASURES

INHALATION:
Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration if possible. Call a poison control center or doctor for further treatment advice.

EYES:
Hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN:
Remove contaminated clothing. Rinse skin immediately with plenty of water. See a physician for severe/persistent irritation.

INGESTION:
Call poison control center (Toll-Free at 1-800-222-1222 within the USA) or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:
Doesn't support sustained combustion per ASTM Test D-4206 testing at 120°F. Classified as a non-combustible mixture under 49 CFR 173.120(b)(3). Product may be considered non-flammable / non-combustible.

EXTINGUISHING MEDIA:
Carbon Dioxide or Dry Chemical - choose extinguishing media to fight surrounding fire.

FIRE FIGHTING PROCEDURES:
Firefighters should wear self-contained breathing apparatus and turn-out gear when fighting any chemical fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None applicable.

HAZARDOUS COMBUSTION PRODUCTS:
None known.

MATERIAL SAFETY DATA SHEET

Page 2 of 3

PRODUCT NAME:	Envirox H2Orange2 Concentrate 117	DATE:	October 27, 2011
PRODUCT NUMBER:	117		

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Do not flush large quantities of material into sewers or bodies of water. Use absorbent to trap spilled material, then place in waste container. Small spills (less than a gallon) can be flushed into a sanitary sewer with plenty of water.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store indoors; Store below 95°F, avoiding temperature extremes. Do not store with incompatible materials (see Section 10).

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	TWA ppm	PEL mg/m3
Hydrogen Peroxide	1	1.4	75 IDLH		1		1	1.4

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Local Exhaust Ventilation is OK. NIOSH/OSHA approved respirators may be used if respiratory irritation occurs.

PROTECTIVE GLOVES:

Impervious protective gloves are recommended - especially for sustained contact. Neoprene is a good choice for glove material.

EYE PROTECTION:

Safety glasses with side shields are recommended where a splash hazard exists and as a good industrial practice.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Not generally required. An impervious apron is suggested for situations where a splash hazard exists.

WORK / HYGIENIC PRACTICES:

Wash hands with soap and water after contact. Use emollient cleanser for mild dryness of skin.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR	VAPOR PRESSURE
Clear liquid with a pleasant citrus odor.	NE
pH	SPECIFIC GRAVITY (WATER = 1)
4.4 ± 0.5%	1.019
BOILING POINT / BOILING RANGE	SOLUBILITY IN WATER
212°F	Completely Soluble.
FLASH POINT	VISCOSITY
147°F (PMCC) [non-combustible per 49CFR173.120(b)(3)]	NA
FLAMMABLE LIMITS	VAPOR DENSITY (AIR = 1)
LEL: NA UEL: NA	NA
AUTO-IGNITION TEMPERATURE	EVAPORATION RATE (WATER = 1)
NA	NA

SECTION 10 - STABILITY AND REACTIVITY

STABILITY	STABLE	X	CONDITIONS TO AVOID:
			None known.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizers, permanganates, reducing agents, acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

None known.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

None related to polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Hydrogen Peroxide	7722-84-1	Oral, rat: LD50 = 376 mg/kg;	Inhalation, rat: LC50 = 2000 mg/m3
	231-765-0	Oral, mouse: LD50 = 2000 mg/kg	

SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is available for this blended product; it is known to be biodegradable, however, based on the ingredients used in its manufacture. Product contains no Priority Pollutants under the Clean Water Act.

MATERIAL SAFETY DATA SHEET

Page 3 of 3

PRODUCT NAME:	Envirox H2Orange2 Concentrate 117	DATE:	October 27, 2011
PRODUCT NUMBER:	117		

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Biodegradable product may be flushed to sewage treatment facility (in small quantities - see Section 6) or landfill. Dispose of container according to State, Federal and Local laws.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Cleaning Solution not regulated.

DOT HAZARD CLASS / Pack Group: Not regulated REFERENCE: None UN / NA IDENTIFICATION NUMBER: None LABEL: None HAZARD SYMBOLS: None	IATA HAZARD CLASS / Pack Group: Not regulated. IMDG HAZARD CLASS: Not regulated RID/ADR Dangerous Goods Code: None UN TDG Class / Pack Group: NA Hazard Identification Number (HIN): None
--	--

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): All components are listed.

SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):

Acute Health: **Yes**

Chronic Health: **No**

Fire: **No**

Sudden Release of Pressure: **No**

Reactive: **No**

313 REPORTABLE INGREDIENTS: None

CERCLA (USA - Comprehensive Response Compensation and Liability Act): No reportable ingredients

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: No reportable ingredients

CPR (Canadian Controlled Products Regulations): No WHMIS warnings required.

IDL (Canadian Ingredient Disclosure List): Listed.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List): Listed on DSL.

WGK Water Quality Index: 1

SECTION 16 - OTHER INFORMATION

Legend: NA = Not Available, NE = Not Established, ND = Not Determined, C = Carcinogen, NTP= National Toxicology Program

HMIS HAZARD RATINGS	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: PERSONAL PROTECTIVE EQUIPMENT:	1 0 0 B*	0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME
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**Gloves and Safety Glasses are recommended but not required*

REVISION SUMMARY:

Revised to ANSI. protocols 10/27/2011 supersedes 3/8/2011 issue.LB

MSDS Prepared by:

ChemTel Inc.
 1305 North Florida Avenue
 Tampa, Florida USA 33602-2902
 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
 Website: www.chemtelinc.com



The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.

Material Safety Data Sheet

Western Refining Gasoline (All Grades)



1. Product and company identification

Product name	: Western Refining Gasoline (All Grades)
Synonym	: Regular Unleaded Gasoline, Midgrade Unleaded Gasoline, Premium Unleaded Gasoline, Ethanol-Enhanced Gasoline, Precertified Gasoline
Material uses	: This MSDS applies to: Federal Reformulated Gasoline, California Reformulated Gasoline, Wintertime Oxygenated Gasoline, Low RVP Gasoline and Conventional Gasoline.
Supplier/Manufacturer	: Western Refining Company LP 123 W. Mills Avenue El Paso, TX 79901 Tel: 915-534-1488
MSDS authored by	: KMK Regulatory Services Inc.
In case of emergency	: CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3887

2. Hazards identification

Emergency overview

Physical state	: Liquid.
Color	: Colorless to yellow.
Odor	: Petroleum.
Signal word	: DANGER!
Hazard statements	: EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL OR FATAL IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER. POSSIBLE DEVELOPMENTAL HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE ADVERSE DEVELOPMENTAL EFFECTS, BASED ON ANIMAL DATA.
Precautionary measures	: Keep away from heat, sparks and flame. Avoid exposure - obtain special instructions before use. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid exposure during pregnancy. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
------------------------	---

Potential acute health effects

Inhalation	: Irritating to respiratory system.
Ingestion	: Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage.
Skin	: Harmful in contact with skin. Irritating to skin.
Eyes	: Irritating to eyes.

Potential chronic health effects

Chronic effects	: Contains material that can cause target organ damage.
Carcinogenicity	: Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: Contains material which may cause developmental abnormalities, based on animal data.

2. Hazards identification

- Fertility effects** : No known significant effects or critical hazards.
- Target organs** : Contains material which may cause damage to the following organs: blood, kidneys, lungs, the reproductive system, liver, peripheral nervous system, gastrointestinal tract, upper respiratory tract, skin, bone marrow, central nervous system (CNS), eye, lens or cornea.

Over-exposure signs/symptoms

- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
reduced fetal weight
increase in fetal deaths
- Ingestion** : Adverse symptoms may include the following:
nausea or vomiting
reduced fetal weight
increase in fetal deaths
- Skin** : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
- Eyes** : Adverse symptoms may include the following:
pain or irritation
watering
redness
reduced fetal weight
increase in fetal deaths

- Medical conditions aggravated by overexposure** : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

3. Composition/information on ingredients

United States

Name	CAS number	%
Gasoline	86290-81-5	90 - 100
Contains:		
Xylene	1330-20-7	0.5 - 15
Toluene	108-88-3	0.5 - 15
Ethanol	64-17-5	0.1 - 10
n-Hexane	110-54-3	0.5 - 5
Benzene	71-43-2	0.1 - 4.9
1,2,4-Trimethylbenzene	95-63-6	0.5 - 4
Ethylbenzene	100-41-4	0.1 - 3
Naphthalene	91-20-3	0.1 - 2

Mexico

					Classification			
Name	CAS number	UN number	%	IDLH	H	F	R	Special
Gasoline	86290-81-5	UN1993	90 - 100	-	0	3	0	-
Contains:								
Xylene	1330-20-7	UN1307	0.5 - 15	900 ppm	2	3	0	-
Toluene	108-88-3	UN1294	0.5 - 15	500 ppm	2	3	0	-
Ethanol	64-17-5	UN1170	0.1 - 10	3300 ppm	1	3	0	-
n-Hexane	110-54-3	UN1208	0.5 - 5	1100 ppm	1	3	0	-
Benzene	71-43-2	UN1114	0.1 - 4.9	500 ppm	2	3	0	-
1,2,4-Trimethylbenzene	95-63-6	UN1993	0.5 - 4	-	2	2	0	-
Ethylbenzene	100-41-4	UN1175	0.1 - 3	800 ppm	2	3	0	-
Naphthalene	91-20-3	UN1334	0.1 - 2	250 ppm	2	2	0	-

3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

- Eye contact** : Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention if symptoms occur.
- Inhalation** : Move exposed person to fresh air. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control center immediately.
- Protection of first-aiders** : If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
- Notes to physician** : Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. Fire-fighting measures

- Flammability of the product** : Extremely flammable liquid. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
- Extinguishing media**
- Suitable** : Use dry chemical, CO₂, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Hazardous to aquatic environment. May cause long-term adverse effects in the aquatic environment. Prevent leaking substances from running into the aquatic environment or the sewage system.
- Methods for cleaning up**
- Small spill** : Stop leak if without risk. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose via a licensed waste disposal contractor.

6. Accidental release measures

Large spill

- Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Dispose via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

7. Handling and storage

Handling

- Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Avoid exposure during pregnancy. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Keep away from heat, sparks and flame.

Storage

- Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

United States

Ingredient	Exposure limits
Gasoline	ACGIH TLV (United States, 2/2010). TWA: 300 ppm 8 hour(s). TWA: 890 mg/m ³ 8 hour(s). STEL: 500 ppm 15 minute(s). STEL: 1480 mg/m ³ 15 minute(s).
Xylene	ACGIH TLV (United States, 2/2010). STEL: 651 mg/m ³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 434 mg/m ³ 8 hour(s). TWA: 100 ppm 8 hour(s). OSHA PEL (United States, 6/2010). TWA: 435 mg/m ³ 8 hour(s). TWA: 100 ppm 8 hour(s).
Toluene	NIOSH REL (United States, 6/2009). STEL: 560 mg/m ³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 375 mg/m ³ 10 hour(s). TWA: 100 ppm 10 hour(s). OSHA PEL Z2 (United States, 11/2006). AMP: 500 ppm 10 minute(s). CEIL: 300 ppm TWA: 200 ppm 8 hour(s). ACGIH TLV (United States, 2/2010). TWA: 20 ppm 8 hour(s).
Ethyl Alcohol	ACGIH TLV (United States, 2/2010). STEL: 1000 ppm 15 minute(s). NIOSH REL (United States, 6/2009). TWA: 1900 mg/m ³ 10 hour(s). TWA: 1000 ppm 10 hour(s).

8. Exposure controls/personal protection

n-Hexane	<p>OSHA PEL (United States, 6/2010). TWA: 1900 mg/m³ 8 hour(s). TWA: 1000 ppm 8 hour(s).</p> <p>ACGIH TLV (United States, 2/2010). Absorbed through skin. TWA: 50 ppm 8 hour(s).</p> <p>NIOSH REL (United States, 6/2009). TWA: 180 mg/m³ 10 hour(s). TWA: 50 ppm 10 hour(s).</p> <p>OSHA PEL (United States, 6/2010). TWA: 1800 mg/m³ 8 hour(s). TWA: 500 ppm 8 hour(s).</p>
Benzene	<p>ACGIH TLV (United States, 2/2010). Absorbed through skin. STEL: 8 mg/m³ 15 minute(s). STEL: 2.5 ppm 15 minute(s). TWA: 1.6 mg/m³ 8 hour(s). TWA: 0.5 ppm 8 hour(s).</p> <p>NIOSH REL (United States, 6/2009). STEL: 1 ppm 15 minute(s). TWA: 0.1 ppm 10 hour(s).</p> <p>OSHA PEL (United States, 6/2010). STEL: 5 ppm 15 minute(s). TWA: 1 ppm 8 hour(s).</p> <p>OSHA PEL Z2 (United States, 11/2006). AMP: 50 ppm 10 minute(s). CELL: 25 ppm TWA: 10 ppm 8 hour(s).</p>
1,2,4-Trimethylbenzene	<p>ACGIH TLV (United States, 2/2010). TWA: 123 mg/m³ 8 hour(s). TWA: 25 ppm 8 hour(s).</p> <p>NIOSH REL (United States, 6/2009). TWA: 125 mg/m³ 10 hour(s). TWA: 25 ppm 10 hour(s).</p>
Ethylbenzene	<p>ACGIH TLV (United States, 2/2010). STEL: 125 ppm 15 minute(s). TWA: 100 ppm 8 hour(s).</p> <p>NIOSH REL (United States, 6/2009). STEL: 545 mg/m³ 15 minute(s). STEL: 125 ppm 15 minute(s). TWA: 435 mg/m³ 10 hour(s). TWA: 100 ppm 10 hour(s).</p> <p>OSHA PEL (United States, 6/2010). TWA: 435 mg/m³ 8 hour(s). TWA: 100 ppm 8 hour(s).</p>
Naphthalene	<p>ACGIH TLV (United States, 2/2010). STEL: 79 mg/m³ 15 minute(s). STEL: 15 ppm 15 minute(s). TWA: 52 mg/m³ 8 hour(s). TWA: 10 ppm 8 hour(s).</p> <p>NIOSH REL (United States, 6/2009). STEL: 75 mg/m³ 15 minute(s). STEL: 15 ppm 15 minute(s). TWA: 50 mg/m³ 10 hour(s). TWA: 10 ppm 10 hour(s).</p> <p>OSHA PEL (United States, 6/2010). TWA: 50 mg/m³ 8 hour(s). TWA: 10 ppm 8 hour(s).</p>

Mexico

Occupational exposure limits

Ingredient	Exposure limits
Gasoline	<p>ACGIH TLV (United States, 2/2010). TWA: 300 ppm 8 hour(s). TWA: 890 mg/m³ 8 hour(s). STEL: 500 ppm 15 minute(s). STEL: 1480 mg/m³ 15 minute(s).</p>
Xylene	<p>NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 435 mg/m³ 8 hour(s). LMPE-PPT: 100 ppm 8 hour(s). LMPE-CT: 655 mg/m³ 15 minute(s). LMPE-CT: 150 ppm 15 minute(s).</p>
Toluene	<p>NOM-010-STPS (Mexico, 9/2000). Absorbed through skin.</p>

8. Exposure controls/personal protection

Ethanol	LMPE-PPT: 188 mg/m ³ 8 hour(s). LMPE-PPT: 50 ppm 8 hour(s). NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 1900 mg/m ³ 8 hour(s). LMPE-PPT: 1000 ppm 8 hour(s).
n-Hexane	NOM-010-STPS (Mexico, 9/2000). LMPE-PPT: 176 mg/m ³ 8 hour(s). LMPE-PPT: 50 ppm 8 hour(s).
Benzene	NOM-010-STPS (Mexico, 9/2000). LMPE-CT: 16 mg/m ³ 15 minute(s). LMPE-CT: 5 ppm 15 minute(s). LMPE-PPT: 3.2 mg/m ³ 8 hour(s). LMPE-PPT: 1 ppm 8 hour(s).
1,2,4-Trimethylbenzene	NOM-010-STPS (Mexico, 9/2000). LMPE-CT: 170 mg/m ³ 15 minute(s). LMPE-CT: 35 ppm 15 minute(s). LMPE-PPT: 125 mg/m ³ 8 hour(s). LMPE-PPT: 25 ppm 8 hour(s).
Ethylbenzene	NOM-010-STPS (Mexico, 9/2000). LMPE-CT: 545 mg/m ³ 15 minute(s). LMPE-CT: 125 ppm 15 minute(s). LMPE-PPT: 435 mg/m ³ 8 hour(s). LMPE-PPT: 100 ppm 8 hour(s).
Naphthalene	NOM-010-STPS (Mexico, 9/2000). LMPE-CT: 75 mg/m ³ 15 minute(s). LMPE-CT: 15 ppm 15 minute(s). LMPE-PPT: 50 mg/m ³ 8 hour(s). LMPE-PPT: 10 ppm 8 hour(s).

Consult local authorities for acceptable exposure limits.

- Recommended monitoring procedures** : Personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.
- Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment.
- Hygiene measures** : Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
- Personal protection**
- Respiratory** : Not required under normal conditions of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure a MSHA/NIOSH-approved respirator or equivalent is used.
- Hands** : Use gloves appropriate for work or task being performed. Recommended: Natural rubber (latex).
- Eyes** : Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Lab coat.

8. Exposure controls/personal protection

Environmental exposure controls : In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

Physical state : Liquid.

Flash point : Closed cup: <-40°C (<-40°F) [Tagliabue.]

Auto-ignition temperature : 257.22°C (495°F)

Flammable limits : Lower: 1.3%
Upper: 7.6%

Color : Colorless to yellow.

Odor : Petroleum.

Relative density : 0.7 to 0.8

Vapor pressure : 34.5 to 103.4 kPa (258.55 to 775.66 mm Hg) [20°C] (5 psi - 15 psi @ 37.8°C (100°F))

Vapor density : 3 to 4 [Air = 1]

Viscosity : <1 SUS @ 37.8°C (100°F)

Solubility : Insoluble in the following materials: cold water and hot water.

10. Stability and reactivity

Chemical stability : The product is stable.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not swallow.

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.

Hazardous decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

11. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Gasoline	LD50 Oral	Rat	13.6 g/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m3	4 hours
	LD50 Oral	Rat	636 mg/kg	-
Xylene	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
	LD50 Dermal	Rabbit	>1700 mg/kg	-
	LD50 Oral	Rat	4300 mg/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	124700 mg/m3	4 hours
	LD50 Oral	Rat	7 g/kg	-
n-Hexane	LC50 Inhalation Gas.	Rat	48000 ppm	4 hours
	LD50 Oral	Rat	15840 mg/kg	-
Benzene	LD50 Oral	Rat	930 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m3	4 hours
	LD50 Oral	Rat	5 g/kg	-
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
Naphthalene	LD50 Dermal	Rabbit	>20 g/kg	-
	LD50 Dermal	Rat	>2500 mg/kg	-
	LD50 Oral	Rat	490 mg/kg	-

Irritation/Corrosion

11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Toluene	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Pig	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
Xylene	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rat	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
Ethanol	Eyes - Mild irritant	Rabbit	-	-	-
	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
n-Hexane	Eyes - Mild irritant	Rabbit	-	-	-
Benzene	Eyes - Moderate irritant	Rabbit	-	-	-
	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rat	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
	Skin - Moderate irritant	Rabbit	-	-	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	-	-
	Skin - Mild irritant	Rabbit	-	-	-
Naphthalene	Skin - Mild irritant	Rabbit	-	-	-
	Skin - Severe irritant	Rabbit	-	-	-

Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Gasoline	A3	-	-	-	-	-
Xylene	A4	3	-	-	-	-
Toluene	A4	3	-	-	-	-
Benzene	A1	1	-	+	Proven.	+
Ethylbenzene	A3	2B	-	None.	-	-
Naphthalene	A4	2B	-	None.	Possible	-

IDLH : Not available.

Synergistic products : Not available.

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Result	Species	Exposure
Toluene	Acute EC50 12500 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 6000 ug/L Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 15.5 ppm Marine water	Crustaceans - Palaemonetes pugio - Adult	48 hours
	Acute LC50 5500 ug/L Fresh water	Fish - Oncorhynchus kisutch - Fry - 1 g	96 hours
	Chronic NOEC 28000 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	48 hours
Xylene	Acute IC50 10 mg/L	Algae	72 hours
	Acute LC50 8500 ug/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 3300 to 4093 ug/L Fresh water	Fish - Oncorhynchus mykiss - 0.6 g	96 hours
Ethanol	Acute EC50 17.921 mg/L Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 ug/L Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 ug/L Marine water	Crustaceans - Artemia franchiscana - Larvae	48 hours
	Acute LC50 42000 ug/L Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC <6.3 g/L Fresh water	Daphnia - Daphnia magna	48 hours
n-Hexane	Acute LC50 2500 to 2980 ug/L Fresh water	Fish - Pimephales promelas - 31 days - 20.4 mm - 0.123 g	96 hours
Benzene	Acute EC50 29000 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >1360000 ug/L Fresh water	Algae - Scenedesmus abundans	96 hours
	Acute EC50 9230 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <=24 hours	48 hours
	Acute LC50 21000 ug/L Marine water	Crustaceans - Artemia salina - Nauplii	48 hours
	Acute LC50 5.28 ul/L Fresh water	Fish - Oncorhynchus gorbuscha - Fry	96 hours
	Chronic NOEC <13000 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	48 hours

12. Ecological information

1,2,4-Trimethylbenzene	Acute LC50 17000 ug/L Marine water	Crustaceans - Cancer magister - Zoea	48 hours
Ethylbenzene	Acute LC50 7720 to 8280 ug/L Fresh water	Fish - Pimephales promelas - 34 days	96 hours
	Acute EC50 4600 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 3600 ug/L Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2970 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <=24 hours	48 hours
	Acute LC50 >5200 ug/L Marine water	Crustaceans - Americamysis bahia - <24 hours	48 hours
	Acute LC50 4200 ug/L Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 6800 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	48 hours
	Chronic NOEC 3300 ug/L Marine water	Fish - Menidia menidia	96 hours
	Acute EC50 1600 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <=24 hours	48 hours
Naphthalene	Acute LC50 2350 ug/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 213 ug/L Fresh water	Fish - Melanotaenia fluviatilis - Larvae - 1 days	96 hours
	Chronic NOEC 600 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	48 hours

13. Disposal considerations

Waste disposal





: The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	UN1203	GASOLINE	3	II		-
Mexico Classification	UN1203	GASOLINE	3	II		-
IMDG Class	UN1203	GASOLINE	3	II		-
IATA-DGR Class	UN1203	GASOLINE	3	II		-

14. Transport information

PG* : Packing group

Exemption to the above classification may apply.

AERG : 128

15. Regulatory information

United States

HCS Classification

: Flammable liquid
Toxic material
Irritating material
Carcinogen
Target organ effects

U.S. Federal regulations

: **TSCA 4(a) final test rules:** Naphthalene
TSCA 8(a) PAIR: Naphthalene
TSCA 8(a) IUR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): Not determined.
TSCA 12(b) annual export notification: Naphthalene

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Ethanol; Xylene; Toluene; Benzene; n-Hexane; 1,2,4-Trimethylbenzene; Ethylbenzene; Naphthalene

SARA 311/312 MSDS distribution - chemical inventory - hazard identification:

Ethanol: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard;
Xylene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard;
Toluene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard;
Benzene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard;
n-Hexane: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard;
1,2,4-Trimethylbenzene: Fire hazard, Delayed (chronic) health hazard;
Ethylbenzene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard;
Naphthalene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: Toluene; Benzene; Ethylbenzene; Naphthalene

Clean Water Act (CWA) 311: Toluene; Xylene; Benzene; Ethylbenzene; Naphthalene

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Listed

SARA 313

	Product name	CAS number	Concentration
Form R - Reporting requirements	Xylene	1330-20-7	0.5 - 15
	Toluene	108-88-3	0.5 - 15
	n-Hexane	110-54-3	0.5 - 5
	Benzene	71-43-2	0.1 - 4.9
	1,2,4-Trimethylbenzene	95-63-6	0.5 - 4
	Ethylbenzene	100-41-4	0.1 - 3
	Naphthalene	91-20-3	0.1 - 2

15. Regulatory information

Supplier notification	Xylene	1330-20-7	0.5 - 15
	Toluene	108-88-3	0.5 - 15
	n-Hexane	110-54-3	0.5 - 5
	Benzene	71-43-2	0.1 - 4.9
	1,2,4-Trimethylbenzene	95-63-6	0.5 - 4
	Ethylbenzene	100-41-4	0.1 - 3
	Naphthalene	91-20-3	0.1 - 2

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

- Massachusetts** : The following components are listed: Toluene; Xylene; Ethanol; n-Hexane; Benzene; 1,2,4-Trimethylbenzene; Ethylbenzene; Naphthalene
- New York** : The following components are listed: Toluene; Xylene; n-Hexane; Benzene; Ethylbenzene; Naphthalene
- New Jersey** : The following components are listed: Toluene; Xylene; Ethanol; n-Hexane; Benzene; 1,2,4-Trimethylbenzene; Ethylbenzene; Naphthalene
- Pennsylvania** : The following components are listed: Gasoline; Toluene; Xylene; Ethanol; n-Hexane; Benzene; 1,2,4-Trimethylbenzene; Ethylbenzene; Naphthalene

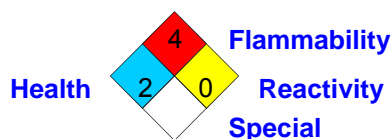
California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Toluene	No.	Yes.	No.	7000 µg/day (ingestion) 13000 µg/day (inhalation)
Benzene	Yes.	Yes.	6.4 µg/day (ingestion) 13 µg/day (inhalation)	24 µg/day (ingestion) 49 µg/day (inhalation)
Ethylbenzene	Yes.	No.	41 µg/day (ingestion) 54 µg/day (inhalation)	No.
Naphthalene	Yes.	No.	Yes.	No.
Cumene	Yes.	No.	No.	No.

Mexico

Classification :



International regulations

- International lists** :
- Australia inventory (AICS):** All components are listed or exempted.
 - China inventory (IECSC):** Not determined.
 - Japan inventory:** Not determined.
 - Korea inventory:** All components are listed or exempted.
 - New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.
 - Philippines inventory (PICCS):** All components are listed or exempted.

16. Other information

Label requirements : EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL OR FATAL IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN DAMAGE. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER. POSSIBLE DEVELOPMENTAL HAZARD - CONTAINS MATERIAL WHICH MAY CAUSE ADVERSE DEVELOPMENTAL EFFECTS, BASED ON ANIMAL DATA.

Hazardous Material Information System (U.S.A.) : **Health :** 2 * **Flammability :** 4 **Physical hazards :** 0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) : **Health :** 2 **Flammability :** 4 **Instability :** 0

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

History

Date of issue : 05/30/2012
Date of previous issue : 03/21/2011
Version : 2

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Date:
Supersedes:

4 June 2014
9 June 2011

MATERIAL SAFETY DATA SHEET

IN CASE OF EMERGENCY CALL CHEMTREC AT 1-800-424-9300

1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION:

Product Name: **PURELL® Advanced Instant Hand Sanitizer**

Company Name & Address: GOJO Industries, Inc.
One GOJO Plaza, Suite 500
Akron, OH 44311

Emergency Phone: **1-800-424-9300 CHEMTREC**

Non-Emergency Phone: (330) 255-6000

MSDS Request Phone: (330) 255-6000 x8804

2. INFORMATION ON INGREDIENTS:

HAZARDOUS INGREDIENTS	CAS NUMBER	OSHA PEL	ACGIH TLV	% RANGE
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	70% v/v
Isopropanol	67-63-0	400 ppm	200 ppm	< 5

Other ingredient(s) with notification requirements:	CAS NUMBER	List
Ethyl Alcohol	64-17-5	MA 1; NJ 1S; PA 1; CN 2
Isopropanol	67-63-0	MA 1; NJ 1S; PA; CN

3. HAZARDS IDENTIFICATION:

EMERGENCY OVERVIEW

When used according to instructions, the product applicable to this MSDS is safe and presents no immediate or long-term health hazard. However, abnormal entry routes, such as gross ingestion, may require immediate medical attention.

Potential Health Effects:

HMIS: Health 2 Flammability 3 Reactivity 0 Personal Protection None

Eye Contact: May cause eye irritation.

Skin Contact: No irritation or reaction expected.

Inhalation: Abnormal entry route

Ingestion: May cause upset stomach, nausea (Abnormal entry route).

Carcinogenicity: Not listed as a carcinogen by NTP, IARC, OSHA or ACGIH.

4. FIRST AID MEASURES:

Eye Contact: Do not rub eyes. Flush eyes thoroughly with water for 15 minutes. If condition worsens or irritation persists, contact physician.

Skin Contact: In the case of allergic reactions see a physician

Inhalation: Move to fresh air

Ingestion: Do not induce vomiting. Contact a physician or Poison Control Center.

5. FIRE FIGHTING MEASURES:

NFPA: Health 2 Fire 3 Reactivity 0
Flashpoint °F/°C (PMCC method): 77°F/ 25°C
Unusual Fire and Explosion Hazards: Product is flammable due to alcohol content.
Special Fire Fighting Procedures: None known.
Extinguishing Media: X Water Fog X Alcohol Foam X CO₂ X Dry Chemical Other

6. ACCIDENTAL RELEASE MEASURES:

Avoid contact with ignition sources since product is flammable. Absorb onto inert material and dispose in appropriate manner. Water clean up and rinse. CAUTION – WILL CAUSE SLIPPERY SURFACES.

7. HANDLING AND STORAGE:

Keep away from fire or flame. Store at normal room temperature away from reach of small children. Keep containers sealed. Use older containers first. Avoid freezing conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Eye Protection: None required under normal conditions.
Skin Protection: None required under normal conditions.
Respiratory Protection: None required under normal conditions.
Ventilation: None required under normal conditions.
Protective Equipment or Clothing: None required under normal conditions.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance and Odor Clear liquid, citrus fragrance
pH (undiluted): 6.5 – 8.5
VOC, %: < 70%

10. STABILITY AND REACTIVITY:

Stable/Non reactive product. Avoid ignition sources.

11. TOXICOLOGICAL INFORMATION:

No acute or chronic toxic effects expected when used according to directions.

12. ECOLOGICAL CONSIDERATIONS:

No ecological or special considerations when used according to directions. Not considered environmentally harmful from normal dilution, expected usage and typical drainage to sewers, septic systems and treatment plants.

13. DISPOSAL CONSIDERATIONS:

Characteristic hazardous waste-flammable liquid. Dispose according to local, state and Federal regulations.

14. TRANSPORT INFORMATION:

Hazardous by transport regulations. When transported by ground modes in the U.S., this product is typically shipped as Consumer Commodity ORM-D. When transported by water, this product is typically shipped as a UN1170 in Limited Quantities. Refer to all current transport regulations for exact requirements.

15. REGULATORY AND OTHER INFORMATION:

TSCA: All ingredients are listed or exempt per reference 15 USC 2602 (2)(B)(vi).

Complies with current FDA regulations for cosmetic and/or over-the-counter drug products.

WHMIS: Exempt under the Food and Drug Act

Notice: The information herein is based on data considered to be accurate as of the date of preparation of this material safety data sheet. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the foregoing data and safety information. The user assumes all liability for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

MATERIAL SAFETY DATA SHEET

MANUFACTURED BY:

GPM
201 Jandus Road
Cary, IL 60013

EMERGENCY TELEPHONE NUMBER:
(866)257-3981
DATE: June 02, 2011

TECHNICAL INFORMATION:
(847)639-5383
SUPERSEDES: December 22, 2008

HMIS:
H [2]
F [0]
R [0]

SECTION 1 - PRODUCT IDENTIFICATION

PRODUCT CODE: RO-5
PRODUCT NAME: Rental One All-In-One Heavy-Duty Carpet Cleaner
PRODUCT CLASS: Carpet Cleaner

SECTION 2 - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NUMBER	WT. %	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE mmHg@20°C
			TLV	PEL	
Tetrapotassium Pyrophosphate	7320-34-5	1-3	10 mg/m ³	15 mg/m ³	NA
Nonylphenol Ethoxylate	9016-45-9	1-3	NE	NE	0.01
Anionic Surfactant	Mixture	1-3	NA	NA	NA

(S) - This ingredient is subject to the reporting requirements of Section 313 SARA Title III.
NA - Not applicable. NE - Not established.

SECTION 3 - PHYSICAL DATA

VAPOR DENSITY: [] HEAVIER [X] LIGHTER THAN AIR
EVAPORATION RATE: [] FASTER [X] SLOWER THAN ETHER
APPEARANCE/ODOR: Clear light blue liquid/Fresh
VOLATILE ORGANIC COMPOUND(VOC): Less than 0.1%
BOILING RANGE: 212° F
90-95 % VOLATILE VOLUME
DENSITY: 8.4-8.7 Wt(lbs)/Gal
pH: 8.8 -9.6

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA N/A FLASH POINT N/A LEL N/A
DOT Not Regulated

EXTINGUISHING MEDIA: [X] FOAM [] ALCOHOL FOAM [X] CO₂ [X] DRY CHEMICAL [X] WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may explode when exposed to extreme heat.

SPECIAL FIRE FIGHTING PROCEDURES: Avoid fumes from spilled or exposed liquid. Use a self contained breathing apparatus with full face mask in a positive pressure demand mode. Water may be used to cool containers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide.

SECTION 5 - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

INHALATION: Can cause dizziness and nausea.

SKIN CONTACT: Prolonged or repeated contact may cause irritation.

EYE CONTACT: Direct eye contact will result in mild irritation, including redness, stinging and watering.

INGESTION: Ingestion may result in nausea or other gastrointestinal irritation.

CARCINOGENICITY: None listed with NTP, IARC, or OSHA.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: None known to GPM Manufacturing Company.

PRIMARY ROUTE(S) OF ENTRY: [X] DERMAL [X] INHALATION [X] INGESTION

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air.

SKIN CONTACT: Remove contaminated clothing. Wash affected area. Launder clothes before reuse.

EYE CONTACT: Flush immediately with large amounts of water. Seek medical attention.

INGESTION: Give 1 or 2 glasses of water to dilute. Do not induce vomiting. Call physician immediately.

SECTION 6 - REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur

INCOMPATIBILITY (Materials to avoid): Strong oxidizing agents.

SECTION 7 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain spill. Absorb liquid with clay, sand or floor absorbent. Prevent run-off to sewers, streams or other bodies of water.

WASTE DISPOSAL METHOD: Observe all federal, state and local regulations regarding proper disposal.

SECTION 8 - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: None required for normal use.

VENTILATION: Sufficient ventilation should be provided to keep air contaminant concentration below applicable OSHA or ACGIH limits.

PROTECTIVE CLOTHING: Safety glasses with splash guards to prevent contact. Use of natural rubber, nitrile or polyethylene gloves is recommended to prevent repeated or prolonged contact with product.

OTHER PROTECTIVE EQUIPMENT: Eyewash facility and safety shower in the event of a spill.

HYGIENIC PRACTICES: Wash hands before eating, drinking or smoking.

SECTION 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not take internally. Avoid prolonged or repeated skin contact. Store in a cool dry area. Keep from freezing. Close container after each use.

WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.

The information contained in this MSDS is based on information and data provided by the supplier of the raw material used in the manufacture of this product. Although GPM Manufacturing Company believes such information and data to be reliable, GPM Manufacturing Company makes no warranty, expressed or implied, regarding the accuracy and completeness of such information and data.

Common Name: NON-ACID BATH & BOWL CLEANER

Manufacturer: W.W. GRAINGER

MSDS Revision Date: 9/11/2012

MSDS Format: No Format Specified

Grainger Item 2LEF8
Number(s):

Manufacturer Model
Number(s):

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TOUGH GUY (TM)

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION



NAME: NON-ACID BATH & BOWL CLEANER

USE: BATHROOM CLEANER

LABEL BRAND: TOUGH GUY

MSDS #: 3760064N

CODE #: 4569481, 2LEF8

W.W. GRAINGER, INC.
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045
USA

EMERGENCY PHONE #: 1-800-983-4582 USA (24/7)

PHONE #: 1-847-535-1000

TECHNICAL SERVICE #: 1-847-793-5187

REVIEWED: 9-11-12

REVISED: 9-11-12

SECTION REVISED: 1

2. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

CAUTION!

MAY BE IRRITATING TO EYES AND SKIN.

PRINCIPLE ROUTES OF EXPOSURE: EYES, INGESTION

POTENTIAL ACUTE HEALTH EFFECTS:

EYES: MAY BE MODERATELY IRRITATING TO EYES.

SKIN: MAY BE MILDLY IRRITATING TO SKIN. HARMFUL IF ABSORBED THROUGH SKIN.

INHALATION: MAY BE IRRITATING TO NOSE, THROAT AND RESPIRATORY TRACT.

INGESTION:

MAY BE IRRITATING TO MOUTH, THROAT AND STOMACH. MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, VOMITING AND DIARRHEA.

MEDICAL CONDITIONS AGGRAVATED:

PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTABLE TO IRRITATING EFFECTS.

3. COMPOSITION / INFORMATION ON INGREDIENTS



HAZARDOUS INGREDIENT	CAS #	% BY WT	LC50/LD50
N-ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	68391-01-5	0.105	N.AP.
N-ALKYL DIMETHYL BENZYL AMMONIUM	68956-79-6	0.105	N.AP.

CHLORIDE

DIETHYLENE GLYCOL MONOBUTYL ETHER 112-34-5 1.0 - 5.0 N.AP.

STATE RIGHT TO KNOW: EXEMPT

4. FIRST AID MEASURES



EYES:

HOLD EYE OPEN AND RINSE SLOWLY AND GENTLY WITH WATER FOR 15 - 20 MINUTES. REMOVE CONTACT LENSES, IF PRESENT, AFTER FIRST FIVE MINUTES, THEN CONTINUE RINSING EYE.

SKIN:

TAKE OFF CONTAMINATED CLOTHING. RINSE SKIN IMMEDIATELY WITH PLENTY OF WATER FOR 15 - 20 MINUTES.

INHALATION:

MOVE PERSON TO FRESH AIR. IF PERSON IS NOT BREATHING, CALL 911 OR AN AMBULANCE, THEN GIVE ARTIFICIAL RESPIRATION.

INGESTION:

CALL A POISON CONTROL CENTER OR DOCTOR IMMEDIATELY FOR TREATMENT ADVICE. HAVE PERSON SIP A GLASS OF WATER IF ABLE TO SWALLOW. DO NOT INDUCE VOMITING UNLESS TOLD TO DO SO BY A POISON CONTROL CENTER OR DOCTOR. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. HAVE THE PRODUCT CONTAINER OR LABEL WITH YOU WHEN CALLING POISON CENTER OR DOCTOR OR GOING FOR TREATMENT.

ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-800-983-4582 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.

NOTE TO PHYSICIAN:

CALL 1-800-983-4582 FOR ASSISTANCE WITH THE MANAGEMENT OF EXPOSURES.

5. FIRE-FIGHTING MEASURES



FLAMMABILITY: NO HAZARD.

FLASH POINT: N.AP.

PRODUCTS OF COMBUSTION: SEE SECTION 10.

SUITABLE EXTINGUISHING MEDIA: FOR FIRES IN AREA, USE APPROPRIATE MEDIA.

FOR EXAMPLE: WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR ALCOHOL FOAM.

SPECIFIC HAZARDS: N.AP.

SPECIFIC METHODS: NORMAL FIRE FIGHTING PROCEDURES MAY BE USED.

6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS: SEE SECTION 8.

SPILL RESPONSE:

EVACUATE UNPROTECTED PERSONNEL FROM AREA. WEAR PROPER PROTECTIVE EQUIPMENT INCLUDING RUBBER BOOTS. VENTILATE AREA IF NEEDED. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DIKE OR DAM LARGE SPILLS. AVOID DIRECT DISCHARGE TO SEWER AND SURFACE WATERS. PUMP TO CONTAINER OR SOAK UP WITH NON-COMBUSTIBLE INERT ABSORBENT MATERIALS. AFTER SPILL COLLECTION, FLUSH AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES. BE CAREFUL AS SPILLS ARE SLIPPERY.

7. HANDLING AND STORAGE



HANDLING:

FOLLOW ALL LABEL DIRECTIONS. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES.

AVOID INGESTION AND CONTACT WITH EYES. DO NOT TASTE OR SWALLOW.

REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE.

PRODUCT RESIDUE MAY REMAIN ON OR IN EMPTY CONTAINERS.

HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.

STORAGE:

ROTATE STOCK REGULARLY. KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID TEMPERATURES BELOW 35 DEG. F OR ABOVE 120 DEG. F. PROTECT FROM FREEZING. STORAGE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT IS RECOMMENDED. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF CHILDREN'S REACH.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION



EXPOSURE LIMITS: N.A.V.

ENGINEERING CONTROLS: NONE REQUIRED. GENERAL ROOM VENTILATION IS ADEQUATE.

PERSONAL PROTECTION:

EYES: NONE REQUIRED WITH NORMAL USE.

HANDS: NONE REQUIRED WITH NORMAL USE.

RESPIRATORY: N.AP.

FEET: N.AP.

BODY: N.AP.

9. PHYSICAL AND CHEMICAL PROPERTIES



COLOR: TURQUOISE BLUE

ODOR: FLORAL

PH CONCENTRATE: 11.5

PH @ 2500 PPM SOLUTION: N.AP.

PH @ USE DILUTION: N.AP.

PHYSICAL STATE: LIQUID

SPECIFIC GRAVITY: 1.005

VISCOSITY: NON-VISCOUS

BOILING POINT: N.AP.

MELTING POINT: N.AP.

FLASH POINT: N.AP.

UEL: N.AV.

LEL: N.AV.

EVAPORATION RATE: N.AP.

ODOR THRESHOLD: N.AP

VAPOR PRESSURE: N.AP

VAPOR DENSITY: N. AP.

COEFF. OIL/WATER: N.AP.

WATER SOLUBILITY: COMPLETE

OTHER: N.AP.

10. STABILITY AND REACTIVITY



STABLE: YES

CONDITIONS TO AVOID:

AVOID TEMPERATURES BELOW 35 DEG. F OR ABOVE 120 DEG. F.

MATERIALS TO AVOID:

AVOID MIXING DIRECTLY WITH ANY OTHER CLEANING PRODUCT. AVOID OXIDIZING AGENTS INCLUDING BLEACH. MIX ONLY WITH WATER.

DECOMPOSITION PRODUCTS:

FIRE OR MIXING WITH INCOMPATIBLE MATERIALS MAY PRODUCE OXIDES OF CARBON AND OTHER TOXIC OR IRRITATING FUMES.

POSSIBILITY OF HAZARDOUS REACTIONS: N.AP.

11. TOXICOLOGICAL INFORMATION



ACUTE EFFECTS: SEE SECTION 2.

CHRONIC EFFECTS:

NONE KNOWN. NO REPORTABLE CARCINOGENS, MUTAGENS, SENSITIZERS, SYNERGISTIC MATERIALS, TERATOGENS, OR REPRODUCTIVE TOXINS.

LC50/LD50: N.AV.

TARGET ORGANS: NONE KNOWN.

OTHER TOXIC EFFECTS: NONE KNOWN.

12. ECOLOGICAL INFORMATION



NOT AVAILABLE.

13. DISPOSAL CONSIDERATIONS



DISPOSAL METHOD:

COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS. CONSULT STATE AND LOCAL AUTHORITIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. MANAGE CHEMICAL WASTES THROUGH AN APPROVED WASTE TREATMENT FACILITY. DO NOT REUSE EMPTY CONTAINER. RINSE EMPTY CONTAINER THOROUGHLY WITH WATER BEFORE DISCARDING CONTAINER IN ACCORDANCE WITH CURRENT LOCAL COMMUNITY CODES. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.

14. TRANSPORT INFORMATION



DOT/TDG: NOT REGULATED

DOT RQ: N.AP.

DOT ERG #: N.AP.

15. REGULATORY INFORMATION



EPA CERCLA RQ: N.AP.

EPA REGISTERED: YES (8155-5-84533)

OSHA HAZARDOUS: YES

PHOSPHORUS CONTENT: 0.00%

PROPOSITION 65: N.AP.

SARA 311/312 HAZARDS: N.AP.

SARA 313 CHEMICALS: DIETHYLENE GLYCOL MONOBUTYL ETHER

STATE RIGHT TO KNOW: SEE SECTION 3 FOR STATE RTK CHEMICAL NAMES.

TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE INVENTORY.

VOC: 0.45% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.

16. OTHER INFORMATION



NFPA RATING:

HEALTH 2
FLAMMABILITY 0
REACTIVITY 0
SPECIAL HAZARD N.AP.

HMIS RATING:

HEALTH 2
FLAMMABILITY 0
REACTIVITY 0
PERSONAL PROTECTION SEE 8.0

N.AV. = NOT AVAILABLE

N.AP. = NOT APPLICABLE

PREPARED BY: HEALTH AND SAFETY

NOTICE TO READER:

THIS DOCUMENT HAS BEEN PREPARED USING DATA FROM SOURCES CONSIDERED TECHNICALLY RELIABLE. IT DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY OF THE INFORMATION CONTAINED WITHIN. ACTUAL CONDITIONS OF USE AND HANDLING ARE BEYOND SELLER'S CONTROL. USER IS RESPONSIBLE FOR EVALUATING ALL AVAILABLE INFORMATION WHEN USING PRODUCT FOR ANY PARTICULAR USE AND TO COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS.

Common Name: 1XHJ4 TOUGH GUY WHITE COCONUT LIQUID SOAP

Manufacturer: W.W. GRAINGER

MSDS Revision Date: 7/12/2007

Grainger Item Number(s): 1XHJ4

Manufacturer Model Number(s):

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MATERIAL SAFETY DATA SHEET

DATE: 12 JULY 2007

SUPERCEDES:

1. PRODUCT IDENTIFICATION AND COMPANY IDENTIFICATION



PRODUCT NAME: 1XHJ4 TOUGH GUY(TM) WHITE COCONUT LIQUID SOAP

COMPANY NAME & ADDRESS:

W. W. GRAINGER
100 GRAINGER PARKWAY
LAKE FOREST, IL 60045-5201
USA

EMERGENCY PHONE: (800) 228-5635

NON-EMERGENCY PHONE: (847) 535-1000

MSDS REQUEST PHONE: (847) 535-5400

2. INFORMATION ON INGREDIENTS



HAZARDOUS INGREDIENTS	CAS NUMBER	% RANGE	OSHA PEL	ACGIH TLV
-----------------------	------------	---------	----------	-----------

NONE

OTHER INGREDIENT(S) WITH NOTIFICATION REQUIREMENTS	CAS NUMBER	LIST
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SODIUM LAURYL SULFATE	151-21-3	CN 1
-----------------------	----------	------

AMMONIUM CHLORIDE	12125-02-9	DN 1
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3. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

WHEN USED ACCORDING TO INSTRUCTIONS, THE PRODUCT APPLICABLE TO THIS MSDS IS SAFE AND PRESENTS NO IMMEDIATE OR LONG-TERM HEALTH HAZARD. HOWEVER, ABNORMAL ENTRY ROUTES, SUCH AS GROSS INGESTION, MAY REQUIRE IMMEDIATE MEDICAL ATTENTION.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: MAY CAUSE EYE IRRITATION.

SKIN CONTACT: NO IRRITATION OR REACTION EXPECTED.

INHALATION: NOT APPLICABLE.

INGESTION: MAY CAUSE UPSET STOMACH, NAUSEA (ABNORMAL ENTRY ROUTE).

CARCINOGENICITY: NOT LISTED AS A CARCINOGEN BY NTP, IARC, OSHA OR ACGIH.

HMIS:

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	NONE

4. FIRST AID MEASURES



EYE CONTACT:

DO NOT RUB EYES. FLUSH EYES THOROUGHLY WITH WATER FOR 15 MINUTES. IF CONDITION WORSENS OR IRRITATION PERSISTS, CONTACT PHYSICIAN.

SKIN CONTACT: NOT APPLICABLE.

INHALATION: NOT APPLICABLE.

INGESTION:

DO NOT INDUCE VOMITING. CONTACT A PHYSICIAN OR POISON CONTROL CENTER.

5. FIRE FIGHTING MEASURES



FLASHPOINT DEG. F/DEG. C (PMCC METHOD): NOT DETERMINED.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN.

SPECIAL FIRE FIGHTING PROCEDURES: NONE KNOWN.

EXTINGUISHING MEDIA:

(X) WATER FOG
(X) ALCOHOL FOAM
(X) CO2
(X) DRY CHEMICAL
() OTHER

NFPA:

HEALTH	0
FIRE	0
REACTIVITY	0

6. ACCIDENTAL RELEASE MEASURES



NO SPECIAL REQUIREMENTS. WATER CLEAN UP AND RINSE. CAUTION - WILL CAUSE SLIPPERY SURFACES.

7. HANDLING AND STORAGE



STORE AT NORMAL ROOM TEMPERATURE AWAY FROM REACH OF SMALL CHILDREN. KEEP CONTAINERS SEALED. USE OLDER CONTAINERS FIRST. AVOID FREEZING CONDITIONS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



EYE PROTECTION: NONE REQUIRED UNDER NORMAL CONDITIONS.

SKIN PROTECTION: NONE REQUIRED UNDER NORMAL CONDITIONS.

RESPIRATORY PROTECTION: NONE REQUIRED UNDER NORMAL CONDITIONS.

VENTILATION: NONE REQUIRED UNDER NORMAL CONDITIONS.

PROTECTIVE EQUIPMENT OR CLOTHING: NONE REQUIRED UNDER NORMAL CONDITIONS.

9. PHYSICAL AND CHEMICAL PROPERTIES



APPEARANCE AND ODOR: WHITE PEARLESCENT LIQUID, COCONUT FRAGRANCE

pH (UNDILUTED): 4.5 - 9.5

VOC, %: 0

10. STABILITY AND REACTIVITY



STABLE/NON REACTIVE PRODUCT.

11. TOXICOLOGICAL INFORMATION



NO ACUTE OR CHRONIC TOXIC EFFECTS EXPECTED WHEN USED ACCORDING TO DIRECTIONS.

12. ECOLOGICAL CONSIDERATIONS



NO ECOLOGICAL OR SPECIAL CONSIDERATIONS WHEN USED ACCORDING TO DIRECTIONS. NOT CONSIDERED ENVIRONMENTALLY HARMFUL FROM NORMAL DILUTION, EXPECTED USAGE AND TYPICAL DRAINAGE TO SEWERS, SEPTIC SYSTEMS AND TREATMENT PLANTS.

13. DISPOSAL CONSIDERATIONS



NO SPECIAL CONSIDERATIONS WHEN DISPOSED ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS.

14. TRANSPORT INFORMATION



NOT CLASSIFIED AS A HAZARDOUS MATERIAL.

15. REGULATORY AND OTHER INFORMATION



TSCA:

ALL INGREDIENTS ARE LISTED OR EXEMPT PER REFERENCE 15 USC 2602 (2)(B)(IV).

COMPLIES WITH CURRENT FDA REGULATIONS FOR COSMETIC AND/OR OVER-THE-COUNTER DRUG PRODUCTS.

NOTICE:

THE INFORMATION HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE AS OF THE DATE OF PREPARATION OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, NO WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE FOREGOING DATA AND SAFETY INFORMATION. THE USER ASSUMES ALL LIABILITY FOR ANY DAMAGE OR INJURY RESULTING FROM ABNORMAL USE, FROM ANY FAILURE TO ADHERE TO RECOMMENDED PRACTICES OR FROM ANY HAZARDS INHERENT IN THE NATURE OF THE PRODUCT.

DOCUMENT#: 9120-506

MATERIAL SAFETY DATA SHEET



Date Issued: Revised 8/22/2011

Trade Name: Distilled White Vinegar

Chemical Name: Dilute Acetic Acid (CH_3COOH)

C.A.S. - #: 8028-52-2

Definition Product made by the acetous fermentation of Ethyl Alcohol to contain 4–10% acetic acid (or 40–100 grain vinegar)

Manufacturer's Name And Address: H. J. Heinz Co.
Heinz 57 Center
357 6th Avenue
Pittsburgh, Pa 15222-2530

Contact: Customer & Consumer Resource Center

Phone Number: 1-800-255-5750

HEALTH HAZARD DATA

INHALATION

Threshold Limit Value: 10 ppm
Short Term Exposure: 15 ppm for 15 minutes
Odor Threshold: 1.0 ppm

Prolonged inhalation of vapors can cause irritation to respiration tract.

EYES

Will cause eye irritation – smarting and reddening of the eye.

EMERGENCY AND FIRST – AID PROCEDURES

In case of eye contact, flush immediately and thoroughly with water for 15–20 minutes (timed by a clock). Call a physician.

If swallowed in large amounts, water should be consumed to dilute. Do not induce vomiting. Do not give emetics of baking soda. Call a physician.

Stability – GOOD

HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

SPILL OR LEAK PROCEDURES

If vinegar is spilled, water may be used to dilute.

PHYSICAL DATA

Appearance and Odor Clear liquid, odor of vinegar.

Boiling Point: 244 °F

Vapor Density (Air = 1): 2.1

Specific Gravity: 1.01

Vapor Pressure (MM Hg): 11 MM

Solubility in Water: Complete

pH: 2.2 @ 100 Grain

Questions? Contact:

Ms. Karen White, Senior Manager
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SAFETY DATA SHEET

Product Name: Epinephrine Injection

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer Name And Address	Hospira, Inc. 275 North Field Drive Lake Forest, Illinois 60045 USA
Emergency Telephone	CHEMTREC: North America: 800-424-9300; International 1-703-527-3887; Australia - 61-290372994; UK - 44-870-8200418
Hospira, Inc., Non-emergency	224 212-2000
Product Name	Epinephrine Injection
Synonyms	4-[1-hydroxy-2-(methylamino) ethyl]-1,2 benzenediol

2. HAZARD(S) IDENTIFICATION

Emergency Overview	Epinephrine Injection is a solution containing epinephrine, a vasoconstrictor agent. In clinical use, epinephrine is used to relieve respiratory distress due to bronchospasm, to provide rapid relief of hypersensitivity reactions to drugs and other allergens, and to prolong the action of anesthetics. Its cardiac effects may be of use in restoring cardiac rhythm in cardiac arrest due to various causes. In the workplace, this material should be considered a potent drug and possibly irritating to the skin and eyes. Based on clinical use, possible target organs include the nervous system, cardiovascular system, eyes, and respiratory system.
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U.S. OSHA GHS Classification

Physical Hazards	Hazard Class	Hazard Category
	Not Classified	Not Classified
Health Hazards	Hazard Class	Hazard Category
	STOT – RE	2

Label Element(s)

Pictogram



Signal Word

Warning

Hazard Statement(s)

May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)

Prevention

Do not breathe vapor or spray
Wash hands thoroughly after handling

Response

Get medical attention if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient Name L-Epinephrine
Chemical Formula $C_9H_{13}NO_3$

Component	Approximate Percent by Weight	CAS Number	RTECS Number
L-Epinephrine	≤ 0.1	51-43-4	DO2625000

Non-hazardous ingredients include Water for Injection. Hazardous ingredients present at less than 1% may include sodium chloride, citric acid, sodium citrate, sodium metabisulfite and hydrochloric acid (for pH adjustment).

4. FIRST AID MEASURES

Eye Contact	Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
Skin Contact	Remove from source of exposure. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
Inhalation	Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.
Ingestion	Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

5. FIRE FIGHTING MEASURES

Flammability	None anticipated for this aqueous product.
Fire & Explosion Hazard	None anticipated for this aqueous product.
Extinguishing Media	As with any fire, use extinguishing media appropriate for primary cause of fire such as carbon dioxide, dry chemical extinguishing powder or foam.
Special Fire Fighting Procedures	No special provisions required beyond normal firefighting equipment such as flame and chemical resistant clothing and self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spill Cleanup and Disposal	Isolate area around spill. Put on suitable protective clothing and equipment as specified by site spill control procedures. Absorb the liquid with suitable material and clean affected area with soap and water. Dispose of spill materials according to the applicable federal, state, or local regulations.
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7. HANDLING AND STORAGE

Handling	No special handling required for hazard control under conditions of normal product use.
Storage	No special storage required for hazard control. For product protection, follow storage recommendations noted on the product case label, the primary container label, or the product insert.
Special Precautions	No special precautions required for hazard control.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	Exposure Limits			
	OSHA-PEL	ACGIH-TLV	AIHA WEEL	Hospira EEL
L-Epinephrine	8 hr TWA: Not Established	8 hr TWA: Not Established	8 hr TWA: Not Established	8 hr TWA: Not Established

Notes: OSHA PEL: US Occupational Safety and Health Administration – Permissible Exposure Limit
 ACGIH TLV: American Conference of Governmental Industrial Hygienists – Threshold Limit Value.
 AIHA WEEL: Workplace Environmental Exposure Level
 EEL: Employee Exposure Limit.
 TWA: 8-hour Time Weighted Average.

Respiratory Protection

Respiratory protection is normally not needed during intended product use. However, if the generation of aerosols is likely, and engineering controls are not considered adequate to control potential airborne exposures, the use of an approved air-purifying respirator with a HEPA cartridge (N95 or equivalent) is recommended under conditions where airborne aerosol concentrations are not expected to be excessive. For uncontrolled release events, or if exposure levels are not known, provide respirators that offer a high protection factor such as a powered air purifying respirator or supplied air. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions require respirator use. Personnel who wear respirators should be fit tested and approved for respirator use as required.

Skin Protection

If skin contact with the product formulation is likely, the use of latex or nitrile gloves is recommended.

Eye Protection

Eye protection is normally not required during intended product use. However, if eye contact is likely to occur, the use of chemical safety goggles (as a minimum) is recommended.

Engineering Controls

Engineering controls are normally not needed during the normal use of this product.

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance/Physical State	Epinephrine is a white, crystalline powder. Epinephrine Injection is a clear, colorless liquid.
Odor	Not determined.
Odor Threshold	NA
pH	3.3 (2.2 to 5.0)
Melting point/Freezing Point	NA
Initial Boiling Point/Boiling Point Range	NA
Flash Point	NA
Evaporation Rate	NA
Flammability (solid, gas)	NA
Upper/Lower Flammability or Explosive Limits	NA
Vapor Pressure	NA
Vapor Density (Air =1)	NA
Relative Density	NA
Solubility	With acids, epinephrine forms salts that are freely soluble in water.
Partition Coefficient: n-octanol/water	NA
Auto-ignition Temperature	NA
Decomposition Temperature	NA
Viscosity	NA

10. STABILITY AND REACTIVITY

Reactivity	Not determined.
Chemical Stability	Stable under standard use and storage conditions.
Hazardous Reactions	Not determined
Conditions to Avoid	Not determined
Incompatibilities	Not determined
Hazardous Decomposition Products	Not determined. During thermal decomposition, it may be possible to generate irritating vapors and/or toxic fumes of carbon oxides (CO _x) and nitrogen oxides (NO _x).
Hazardous Polymerization	Not anticipated to occur with this product.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Not determined for the product formulation. Information for the active ingredient is as follows:

Ingredient(s)	Percent	Test Type	Route of Administration	Value	Units	Species
Epinephrine	100	LD50	Intravenous	150 217 50 100	mcg/kg mcg/kg mcg/kg mcg/kg	Rat Mouse Rabbit Dog
Epinephrine	100	LD50	Dermal	62	mg/kg	Rat
Epinephrine Hydrochloride	100	LD50	Oral	24	mg/kg	Rat
Epinephrine Hydrochloride	100	LD50	Intravenous	140	mcg/kg	Mouse
Epinephrine Hydrochloride	100	LD50	Intraperitoneal	4.7	mg/kg	Mouse

LD 50: Dosage that produces 50% mortality.

Occupational Exposure Potential	Though not well absorbed, inhalation or topical application can produce systemic effects. Avoid liquid aerosol generation and skin contact.
Signs and Symptoms	None anticipated from normal handling of this product. In clinical use, serious adverse effects may include rapid and large increases in blood pressure, cerebral hemorrhage, pulmonary arterial hypertension resulting in edema, hyperglycemia, and cardiac arrhythmia with ventricular fibrillation. Other adverse effects may include fearfulness, anxiety, sweating, nervousness, palpitations, tenseness, restlessness, headache, tremor, dizziness and lightheadedness, fever, chills, nausea, vomiting, respiratory difficulty, tachycardia, dilated pupils, blurred vision, cyanosis, ECG changes, disruption of cardiac rhythm, hypertension, metabolic acidosis, and injury to the heart. Locally, tissue necrosis can result at the injection site due to vasoconstriction. Ocular use has produced conjunctival irritation (burning, stinging, tearing and rebound redness).
Aspiration Hazard	None anticipated from normal handling of this product. Inadvertent inhalation of small amounts of this product may produce irritation and possibly bronchial dilation.
Dermal Irritation/Corrosion	None anticipated from normal handling of this product. However, inadvertent contact with this product may be irritating to broken skin and mucous membranes.
Ocular Irritation/Corrosion	None anticipated from normal handling of this product. However, inadvertent contact of this product with eyes may produce irritation, dilated pupils, and blurred vision.
Dermal or Respiratory Sensitization	None anticipated from normal handling of this product. However, this product contains sodium metabisulfite which may elicit allergic reactions in people sensitive to sulfites.

11. TOXICOLOGICAL INFORMATION: continued

Reproductive Effects	None anticipated from normal handling of this product. No teratogenic effect was noted in offspring of pregnant rats given continuous infusions of epinephrine at a dose about 8 times the normal human dose. An increase in the frequency of cleft palate was noted in the offspring of one strain of mice treated during pregnancy with epinephrine at doses that were 40-80 times the normal human dose. An increase in the frequency of fetal loss was noted in pregnant mice and rabbits given epinephrine at doses that were 200 and 85 times, respectively, the human therapeutic dose. The frequency of malformations was not increased in offspring of hamsters treated during pregnancy with 25 times the human subcutaneous dose.		
Mutagenicity	Salmonella gene mutation tests with L-epinephrine were negative in the TA100 strain in the presence of S9 metabolic activation, but equivocal in the absence of S9. No mutagenic activity was observed in strains TA98, TA1535, or TA1537 with or without S9. Results noted in a CHO cell assay for induction of sister chromatid exchanges were considered negative and equivocal in the presence and absence of S9 activation, respectively.		
Carcinogenicity	No data found for epinephrine. By analogy, in a chronic aerosol inhalation studies in rats and mice, epinephrine hydrochloride did not significantly increase the incidence of tumors over controls in these animals. Increased incidences of suppurative inflammation, dilatation of the nasal glands in rats and mice, and hyperplasia of the respiratory epithelium in rats only were noted in this study.		
Carcinogen Lists	IARC: Not listed	NTP: Not listed	OSHA: Not listed
Specific Target Organ Toxicity – Single Exposure	NA		
Specific Target Organ Toxicity – Repeat Exposure	Based on clinical use, possible target organs include the nervous system, cardiovascular system, eyes, and respiratory system.		

12. ECOLOGICAL INFORMATION

Aquatic Toxicity	Not determined for product.
Persistence/Biodegradability	Not determined for product.
Bioaccumulation	Not determined for product.
Mobility in Soil	Not determined for product.

13. DISPOSAL CONSIDERATIONS

Waste Disposal	All waste materials must be properly characterized. Further, disposal should be performed in accordance with the federal, state or local regulatory requirements.
Container Handling and Disposal	Dispose of container and unused contents in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

ADR/ADG/ DOT STATUS	Not regulated
Proper Shipping Name	NA
Hazard Class	NA
UN Number	NA
Packing Group	NA
Reportable Quantity	NA
ICAO/IATA STATUS	Not regulated
Proper Shipping Name	NA
Hazard Class	NA
UN Number	NA
Packing Group	NA
Reportable Quantity	NA
IMDG STATUS	Not regulated
Proper Shipping Name	NA
Hazard Class	NA
UN Number	NA
Packing Group	NA
Reportable Quantity	NA

Notes: DOT - US Department of Transportation Regulations

15. REGULATORY INFORMATION

US TSCA Status	Exempt
US CERCLA Status	Epinephrine – Listed. The US Federal EPA waste listing for epinephrine does not include epinephrine salts. Disposal should be performed in accordance with all federal, state, and local regulatory requirements.
US SARA 302 Status	Not listed
US SARA 313 Status	Not listed
US RCRA Status	Epinephrine – Listed. The US Federal EPA waste listing for epinephrine does not include epinephrine salts. Disposal should be performed in accordance with all federal, state, and local regulatory requirements.
US PROP 65 (Calif.)	Not listed

Notes: TSCA, Toxic Substance Control Act; CERCLA, US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act; SARA, Superfund Amendments and Reauthorization Act; RCRA, US EPA, Resource Conservation and Recovery Act; Prop 65, California Proposition 65

<u>GHS/CLP Classification*</u>	*In the EU, classification under GHS/CLP does not apply to certain substances and mixtures, such as medicinal products as defined in Directive 2001/83/EC, which are in the finished state, intended for the final user.
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Hazard Class	Hazard Category	Pictogram	Signal Word	Hazard Statement
NA	NA	NA	NA	NA
Prevention	Do not breathe vapor or spray Wash hands thoroughly after handling			
Response	Get medical attention if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.			

15. REGULATORY INFORMATION: continued

<u>EU Classification*</u>	*Medicinal products are exempt from the requirements of the EU Dangerous Preparations Directive.
Classification(s)	NA
Symbol	NA
Indication of Danger	NA
Risk Phrases	NA
Safety Phrases	S23: Do not breathe vapor/spray S24: Avoid contact with the skin S25: Avoid contact with eyes S37/39 Wear suitable gloves and eye/face protection.

16. OTHER INFORMATION

Notes:

ACGIH TLV	American Conference of Governmental Industrial Hygienists – Threshold Limit Value
CAS	Chemical Abstracts Service Number
CERCLA	US EPA law, Comprehensive Environmental Response, Compensation, and Liability Act
DOT	US Department of Transportation Regulations
EEL	Employee Exposure Limit
IATA	International Air Transport Association
LD ₅₀	Dosage producing 50% mortality
NA	Not applicable/Not available
NE	Not established
NIOSH	National Institute for Occupational Safety and Health
OSHA PEL	US Occupational Safety and Health Administration – Permissible Exposure Limit
Prop 65	California Proposition 65
RCRA	US EPA, Resource Conservation and Recovery Act
RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendments and Reauthorization Act
STEL	15-minute Short Term Exposure Limit
STOT - SE	Specific Target Organ Toxicity – Single Exposure
STOT - RE	Specific Target Organ Toxicity – Repeated Exposure
TSCA	Toxic Substance Control Act
TWA	8-hour Time Weighted Average

MSDS Coordinator: Hospira GEHS
Date Prepared: October 18, 2012
Date Revised: June 02, 2014

Disclaimer:

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SAFETY DATA SHEET

Issuing Date 13-Sept-2013

Revision Date 22-Oct-2014

Revision Number 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

GHS product identifier

Product Name SCRUBS® In-A-Bucket

Other means of identification

Product Code(s) 42201, 42210, 42225, 42230, 42256, 42272

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Heavy Duty Hand Cleaner

Uses advised against None reasonably foreseeable

Supplier's details

Supplier Address

ITW Pro Brands
805 E. Old 56 Highway
Olathe, KS 66061
TEL: 1-800-443-9536

Emergency telephone number

Emergency Telephone Number 800-535-5053 Infotrac

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word None

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance Colorless-blue/white

Physical State Liquid.

Odor Citrus

Precautionary Statements

Prevention
• None

General Advice

- None

Storage

- None

Disposal

- None

Hazard Not Otherwise Classified (HNOC)

Not applicable

Other information

Toxic to aquatic life. Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Alcohols, C12-15, ethoxylated	68131-39-5	1-5	*
Isoparaffinic Hydrocarbon	64742-47-8	1-5	*
Dimethyl adipate	627-93-0	1-5	*
Diethylhexyl sodium sulfosuccinate	577-11-7	1-5	*
D-Limonene	5989-27-5	1-5	*

**The exact percentage (concentration) of composition has been withheld as a trade secret.*

4. FIRST AID MEASURES**Description of necessary first-aid measures**

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
Skin Contact	None normally required. Material is designed for skin cleansing. Get medical attention if irritation develops and/or persists.
Inhalation	Move to fresh air. If symptoms persist, call a physician.
Ingestion	Not an expected route of exposure. If large quantities of this material are swallowed, call a physician immediately.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects Not expected to give rise to an acute hazard under normal condition of use.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO₂). Foam. Water spray or fog.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the Chemical

None in particular

Hazardous Combustion Products Carbon dioxide (CO₂). Carbon monoxide. Hydrocarbons. Hydrogen sulfide. Sulfur dioxide. Soot.

Explosion Data**Sensitivity to Mechanical Impact**

None.

Sensitivity to Static Discharge

None.

Protective Equipment and Precautions for Firefighters

Use water spray to cool surrounding containers.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Personal Precautions Use personal protective equipment.

Environmental Precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. Avoid release to the environment. See Section 12 for additional Ecological Information. Dispose of contents/container to an approved waste disposal plant.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Small spillage: Wipe up with absorbent material (e.g. cloth, fleece). Large spillage: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

7. HANDLING AND STORAGE**Precautions for safe handling**

Handling Avoid contact with eyes. Do not smoke. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Keep container closed when not in use. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Do not contaminate food or feed stuffs. Keep out of the reach of children.

Incompatible Products Strong oxidizing agents. Strong acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Control parameters**

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Measures Eyewash stations.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	No special protective equipment required.
Skin and Body Protection	No special protective equipment required.
Respiratory Protection	None required under normal usage. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

Physical State	Liquid	Appearance	Colorless-blue/white
Odor	Citrus	Odor Threshold	No information available

Property	Values	Remarks/ - Method
pH	6	None known
Melting Point/Range	No data available	None known
Boiling Point/Boiling Range	212 °F	None known
Flash Point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
upper flammability limit	No data available	
lower flammability limit	No data available	
Vapor Pressure	No data available	None known
Vapor Density	>1	None known
Relative Density	No data available	None known
Specific Gravity	0.995	None known
Water Solubility	Miscible with water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition Temperature	No data available	None known
Decomposition Temperature	No data available	None known
Viscosity	No data available	None known

Flammable Properties Not flammable

Explosive Properties No data available

Oxidizing Properties No data available

Other information

VOC Content (%) 0%

10. STABILITY AND REACTIVITY**Reactivity**

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Incompatible products.

Incompatible materials

Strong oxidizing agents. Strong acids.

Hazardous decomposition products

Carbon dioxide (CO₂). Carbon monoxide (CO). Hydrocarbons. Hydrogen sulfide. Sulfur dioxide. Soot.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Inhalation	Not an expected route of exposure
Eye Contact	Contact with eyes may cause irritation.
Skin Contact	May cause mild skin irritation.
Ingestion	Not an expected route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization	No information available.
Mutagenic Effects	No information available.
Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
D-Limonene		Group 3	-	-

IARC: (International Agency for Research on Cancer)

Group 3: Not Classifiable as to its Carcinogenicity to Humans

Reproductive Toxicity	This product does not contain any known or suspected reproductive hazards.
STOT - single exposure	None of the ingredients are known to cause specific target organ effects from a single exposure.
STOT - repeated exposure	None of the ingredients are known to cause specific target organ effects through prolonged or repeated exposure.
Aspiration Hazard	None of the ingredients are known to be an aspiration hazard.

Numerical measures of toxicity - Product

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral	42888 mg/kg; Acute toxicity estimate
LD50 Dermal	329859 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
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Isoparaffinic Hydrocarbon 64742-47-8		LC50 96 h: = 45 mg/L flow-through (Pimephales promelas) LC50 96 h: = 2.2 mg/L static (Lepomis macrochirus) LC50 96 h: = 2.4 mg/L static (Oncorhynchus mykiss)		LC50 96 h: = 4720 mg/L (Den-dronereides heteropoda)
Diethylhexyl sodium sulfosuccinate 577-11-7		LC50 96 h: 20 - 40 mg/L semi-static (Oncorhynchus mykiss) LC50 96 h: < 24 mg/L static (Oncorhynchus mykiss) LC50 96 h: = 37 mg/L static (Lepomis macrochirus)		EC50 48 h: = 36 mg/L (Daphnia magna)
D-Limonene 5989-27-5		LC50 96 h: 0.619 - 0.796 mg/L flow-through (Pimephales promelas) LC50 96 h: = 35 mg/L (Oncorhynchus mykiss)		
Dimethyl glutarate 1119-40-0		LC50 96 h: 19.6-26.2 mg/L static (Pimephales promelas)		EC50 48 h: 122.1 - 163.5 mg/L (Daphnia magna)
1,3-Propanediol, 2,2-dimethyl- 126-30-7	EC50 72 h: > 1000 mg/L (Pseudokirchneriella subcapitata) EC50 72 h: > 500 mg/L (Desmodesmus subspicatus)	LC50 96 h: > 1000 mg/L semi-static (Oryzias latipes)		EC50 24 h: > 1000 mg/L (Daphnia magna)
Isopropyl myristate 110-27-0	EC50 72 h: > 100 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 8400 mg/L (Brachydanio rerio) LC50 96 h: = 8400 mg/L semi-static (Brachydanio rerio)	-	EC50 48 h: = 100 mg/L (Daphnia magna)
2-Phenoxyethanol 122-99-6	EC50 72 h: > 500 mg/L (Desmodesmus subspicatus)	LC50 96 h: 337 - 352 mg/L flow-through (Pimephales promelas) LC50 96 h: = 366 mg/L static (Pimephales promelas) LC50 96 h: 220 - 460 mg/L static (Leuciscus idus)	EC50 = 32.4 mg/L 5 min EC50 = 880 mg/L 17 h	EC50 48 h: > 500 mg/L (Daphnia magna)
Propylene glycol 57-55-6	EC50 96 h: = 19000 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h: = 51600 mg/L static (Oncorhynchus mykiss) LC50 96 h: 41 - 47 mL/L static (Oncorhynchus mykiss) LC50 96 h: = 51400 mg/L static (Pimephales promelas) LC50 96 h: = 710 mg/L (Pimephales promelas)	EC50 = 710 mg/L 30 min	EC50 24 h: > 10000 mg/L (Daphnia magna) EC50 48 h: > 1000 mg/L Static (Daphnia magna)
Glycerin 56-81-5	-	LC50 96 h: 51 - 57 mL/L static (Oncorhynchus mykiss)	-	EC50 24 h: > 500 mg/L (Daphnia magna)
Iodopropynyl butylcarbamate 55406-53-6		LC50 96 h: 0.049-0.079 mg/L flow-through (Oncorhynchus mykiss) LC50 96 h: 0.05-0.089 mg/L (Oncorhynchus mykiss) LC50 96 h: 0.14-0.32 mg/L flow-through (Lepomis macrochirus) LC50 96 h: 0.18-0.23 mg/L flow-through (Pimephales promelas)		

Persistence and Degradability No information available.

Bioaccumulation No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging

Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
D-Limonene	Toxic

14. TRANSPORT INFORMATION

DOT

Not regulated

15. REGULATORY INFORMATION

International Inventories**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory. All components of this product are either listed or are exempt on the TSCA inventory.

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated by state right-to-know regulations.

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION					
<u>NFPA</u>	Health Hazard	1	Flammability	0	Instability 0
<u>HMIS</u>	Health Hazard	1	Flammability	0	Physical Hazard 0
					Physical and Chemical Hazards -
					Personal Protection X

**Indicates a chronic health hazard.*

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date 13-Sep-2013
Revision Date 13-Sep-2013
Revision Note Initial Release.

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

MATERIAL SAFETY DATA SHEET

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME Austin A-1 Bleach Concentrated Bleach (lemon, lavender, linen, meadow)

PRODUCT Brand _____

EMERGENCY TELEPHONE NUMBERS

ISSUE DATE May 8, 2013

MANUFACTURER James Austin Company
STREET ADDRESS 115 Downieville Road
CITY, STATE, ZIP Mars, PA 16046

Medical Information: 1-866-359-5662
Transportation: 1-800-424-9300*
* For spill, leak, fire or transport accident emergencies.
Product Information: 1-724-625-1535

SECTION 2 -- COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS No.	% by wt.	OSHA PEL	EXPOSURE LIMITS	
				ACGIH TLV	NIOSH REL
Sodium hypochlorite	7681-52-9	4.00 – 4.10	None	None	None

SECTION 3 -- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	CORROSIVE: may cause severe skin and eye irritation or chemical burns to broken skin. Vapors extremely irritating to eyes and respiratory tract. Harmful and potentially fatal if swallowed. If mixed with other prohibited chemicals or materials, chlorine gas will be released which is also irritating to eyes, lungs, mucous membranes and in some cases can be fatal. (see Section 10 for more information)
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POTENTIAL HEALTH EFFECTS	
INGESTION	Can cause corrosion of mucous membranes, severe esophageal burns and perforation of esophagus or stomach.
INHALATION	Inhalation of vapors can cause bronchial irritation, coughing, difficulty in breathing, nausea and pulmonary edema.
EYE CONTACT	Irritating to the eyes; may cause severe and permanent damage.
SKIN CONTACT	Severe irritant; contact can produce blistering and eczema.

SECTION 4 -- FIRST AID MEASURES

INGESTION	If swallowed, DO NOT induce vomiting. Immediately drink a large quantity of water. Do not give liquids if victim is unconscious. Do not use acidic antidotes or sodium bicarbonate (baking soda). Do not administer alcohol. Call a physician or poison control center immediately.
INHALATION	If exposed to excessive vapor levels, remove to fresh air and seek medical attention if cough or other symptoms develop.
EYE CONTACT	Immediately flush eye with plenty of cool, running water. Remove contact lenses if applicable, and continue flushing for at least 15 minutes. Get medical attention immediately.
SKIN CONTACT	Flush affected skin area with copious amounts of water and wash with soap and water. If irritation develops or persists, get medical attention. Remove clothing and wash before reuse.
NOTE TO PHYSICIAN	Information pertaining to ingestion toxicology, therapy, symptomatology and treatment can be found in <u>Clinical Toxicology of Commercial Products</u> , authored by Gosselin, Smith and Hodge and published by Williams & Wilkins, Baltimore, Maryland. See listing for Hypochlorite in Therapeutics Index, Section III.

SECTION 5 -- FIRE FIGHTING MEASURES

FLASH POINT / METHOD	None / N.A.	FLAMMABLE LIMITS	Not flammable or combustible
EXTINGUISHING MEDIA	If involved in a fire, alcohol foam, carbon dioxide, dry chemical or water fog. Use extinguishing media that is appropriate for surrounding fire.		
SPECIAL FIRE FIGHTING PROCEDURES	Avoid fumes from spilled or exposed liquid. Firefighters should wear full protective clothing and OSHA/NIOSH self-contained breathing apparatus. Cool fire-exposed containers with water spray from a safe distance.		
FIRE AND EXPLOSION HAZARDS	Sodium hypochlorite bleach is a strong oxidizing agent and decomposes when heated. Decomposition products may cause containers to explode. Vigorous reactions may occur with organic materials or oxidizable materials, causing fires.		

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

RESPONSE TO SPILLS	Small spills: Dilute product by flooding area with large quantity of water and flush to sanitary sewer. Large spills: Contain run-off by diking with suitable material. Soak up liquid on inert absorbent and transfer to approved container. Prevent spill from entering sewers or waterways.
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SECTION 7 -- HANDLING AND STORAGE

HANDLING PRECAUTIONS	Wash after handling and before eating. Use personal protective equipment and wear suitable chemical-resistant clothing. Keep container tightly closed when not in use. Follow label directions closely.
STORAGE PRECAUTIONS	Store upright in a cool (below 85 F), dry, well-ventilated area. Keep away from heat or direct sunlight. Separate from incompatible materials, such as acids, ammonia, soap-based products or organic materials. Protect containers from physical damage. Keep away from children.

SECTION 8 -- EXPOSURE CONTROLS / PERSONAL PROTECTION

HYGIENIC PRACTICES	Avoid breathing vapors. Do not store near food stuffs, water or feed. Protect eyes, skin and clothing from contact with this product.
ENGINEERING CONTROLS	Use local ventilation to remove vapors at the source. Facilities using this product must be equipped with an eyewash station.

PERSONAL PROTECTIVE EQUIPMENT

X	RESPIRATOR	Not normally necessary; use NIOSH approved respirator for concentrated vapors
X	GOGGLES / FACE SHIELD	Recommended but not needed. Should be chemical splash type.
X	APRON	Recommended but not needed to avoid skin contact and protect clothing from damage
X	GLOVES	Recommended but not needed; use impervious PVC/Neoprene with long gauntlet
X	BOOTS	Recommended but not needed to protect shoes and feet when using product for floor cleaning

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear pale yellow liquid	BOILING POINT	212 deg F
ODOR	Chlorine	FREEZING POINT	28 deg F
pH	12.0 – 13.0	VAPOR PRESSURE	17.5 mm Hg @ 20 C
SPECIFIC GRAVITY	1.057 – 1.070	VAPOR DENSITY	Not applicable
SOLUBILITY IN WATER	Complete	EVAPORATION RATE	Not applicable

SECTION 10 -- STABILITY AND REACTIVITY

CHEMICAL STABILITY		STABLE	X		UNSTABLE	
CONDITIONS TO AVOID	Heat or direct sunlight; temperatures above 85 F. NEVER mix with solutions containing ammonia.					
INCOMPATIBILITY	Acids, ammonia, ether, urea, oxidizable materials, soaps, oils, greases, phenolic disinfectants and metals (including nickel, copper, tin, aluminum and iron).					
HAZARDOUS PRODUCTS OF DECOMPOSITION	Chlorine gas -- from contact with highly acidic materials. Chloramines -- from contact with ammonia. Polychlorinated phenols -- from contact with phenolic disinfectants.					
POLYMERIZATION		WILL NOT OCCUR	X		MAY OCCUR	
CONDITIONS TO AVOID	Not applicable					

SECTION 11 -- TOXICOLOGICAL INFORMATION

CARCINOGENICITY

	THIS PRODUCT CONTAINS A KNOWN OR SUSPECTED CARCINOGEN
X	THIS PRODUCT DOES NOT CONTAIN ANY KNOWN OR ANTICIPATED CARCINOGENS ACCORDING TO THE CRITERIA OF THE NTP ANNUAL REPORT ON CARCINOGENS AND OSHA 29 CFR 1910, Z

OTHER EFFECTS

ACUTE	Toxicity arises from corrosive activity; stems from oxidizing potency, a function of concentration
CHRONIC	Not determined

SECTION 12 -- ECOLOGICAL INFORMATION

BIODEGRADABILITY		CONSIDERED BIODEGRADABLE	X		NOT BIODEGRADABLE	
BOD / COD VALUE	Not established					
ECOTOXICITY	No data available					

SECTION 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD	If in accordance with an NPDES permit or approved by local sewage treatment plant authority, small amounts may be flushed to a sanitary sewer with plenty of water. Large amounts of unused product must be disposed of as hazardous waste at an approved hazardous waste management facility.					
RCRA CLASSIFICATION	Hazardous, corrosive D002 (if pH is equal to or greater than 12.5)					
RECYCLE CONTAINER		YES	X		CODE	2 - HDPE
					NO	

SECTION 14 -- TRANSPORT INFORMATION

DOT CLASSIFICATION		HAZARDOUS			NOT HAZARDOUS	X
DOT Proper Shipping Name	Not regulated as per DOT/IMDG/IATA					
Hazard Class	N/A					
Identification Number	N/A					
Packing Group	N/A					
Label/Placard	None					
RQ	None					
EXCEPTIONS						

SECTION 15 -- REGULATORY INFORMATION

REGULATORY STATUS

EPA REGISTERED (UNDER FIFRA)	
FDA REGULATED	
KOSHER	
SARA TITLE III MATERIAL	Bottled product not regulated
NSF AUTHORIZED	

SECTION 16 -- OTHER INFORMATION

NFPA CLASSIFICATION

2	BLUE	HEALTH HAZARD
0	RED	FLAMMABILITY
0	YELLOW	REACTIVITY
COR	WHITE	SPECIAL HAZARD

Approved Specifications

Federal Specification O-S-602E
Commercial Item Description A-1427C

Information contained in this MSDS refers only to the specific material designated and does not relate to any process or use involving other materials. This information is based on data believed to be reliable, and the Product is intended to be used in a manner that is customary and reasonably foreseeable. Since actual use and handling are beyond our control, no warranty, express or implied, is made and no liability is assumed by James Austin Company in connection with the use of this information.

MATERIAL SAFETY DATA SHEET

40910/60910
04 00

DATE OF PREPARATION
Jul 19, 2014

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

40910/60910

PRODUCT NAME

MINWAX® WIPE-ON POLY Oil-Based Polyurethane Finish, Clear Satin

MANUFACTURER'S NAME

MINWAX Company
10 Mountainview Road
Upper Saddle River, NJ 07458

Telephone Numbers and Websites

Product Information	(800) 523-9299 www.minwax.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
70	64742-88-7	Med. Aliphatic Hydrocarbon Solvent		
		ACGIH TLV	100 PPM	1.27 mm
		OSHA PEL	100 PPM	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

HMIS Codes

Health	2
Flammability	2
Reactivity	0

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT 106 °F PMCC	LEL 1.0	UEL 6.0	FLAMMABILITY CLASSIFICATION Combustible, Flash above 99 and below 200 °F
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EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE**STORAGE CATEGORY**

DOL Storage Class II

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

To minimize the possibility of spontaneous combustion: control the accumulation of overspray; soak wiping rags and waste immediately after use in a water-filled, closed metal container; air dry filters outside, far from any combustible material and separated by bricks or other non-combustible spacers; dispose of all contaminated materials and waste properly. Consult OSHA 29 CFR 1910.107(b)(5) and NFPA 33, Chapter 8 (8-9) for the proper procedures.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.02 lb/gal	840 g/l
SPECIFIC GRAVITY	0.84	
BOILING POINT	300 - 395 °F	148 - 201 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	76%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	Not Available	
VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)		
4.92 lb/gal	589 g/l	Less Water and Federally Exempt Solvents
4.92 lb/gal	589 g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
64742-88-7	Med. Aliphatic Hydrocarbon Solvent			
	LC50 RAT	4HR		Not Available
	LD50 RAT			Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

Bulk Containers may be Shipped as:

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.

UN1263, PAINT, CLASS 3, PG III, (ERG#128)

IMO

5 Liters (1.3 Gallons) and Less may be Shipped as Limited Quantity.

UN1263, PAINT, CLASS 3, PG III, (41 C c.c.), EmS F-E, S-E

IATA/ICAO

UN1263, PAINT, 3, PG III

SECTION 15 — REGULATORY INFORMATION**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Manufacturer's Name:

Misco Products Corporation

Manufacturer's Address:

1048 Stinson Drive Reading, PA 19605

Manufacturer's Phone #: (610) 926-4106**Product Name:** Spectrum HBV**Generic Name:** Disinfectant Detergent Cleaner**Chemical Family:** Quaternary Detergent Blend**Formula:** Proprietary**Supplier's Name:****Supplier's Address:****Supplier's Phone #:**

SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
Dimethyl Benzyl Ammonium Chloride	68391-01-5	2.25			
Dimethyl Ethylbenzyl Ammonium Chloride	68956-79-6	2.25			
Nonionic Surfactant	9016-45-9	0 to 5			
Sodium Carbonate	497-19-8	0 to 5			
Tetrasodium EDTA	64-02-8	0 to 5			
Perfume Oil	N/A	0 to 5			
Dye	N/A	0 to 5			

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 210 F. **Specific Gravity:** 1.040
Vapor Pressure: 20mm Hg @ 68 F. **Vapor Density (Air=1):** >1
% Volatile: 90+ **pH:** 10.0 - 12.0
Solubility in Water: Complete **Evaporation Rate (Water=1):** <1
Physical Description: Thin light blue liquid with pleasant odor.

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A
Upper Explosion Limit: N/A **Lower Explosion Limit:** N/A
Extinguishing Media: N/A
Special Firefighting Procedures: Non Flammable
Unusual Fire and Explosion Hazards: N/A

SECTION 5-REACTIVITY DATA

Stability: Stable **Hazardous Polymerization:** None
Hazards Decomposition Products: Will not occur. **Incompatibility (Materials to Avoid):** None

SECTION 6-STORAGE AND HANDLING INFORMATION

Keep out of reach of children. For use by trained personnel only. Keep container closed during storage. For institutional and industrial use only. Avoid contact with eyes, skin and clothing. Avoid breathing of mists. Use in well-ventilated area.

SECTION 7-HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:**Skin:** Skin irritant. Prolonged or repeated contact may cause dermatitis.**Eyes:** Severe eye irritant. Liquid and mists may injure the eyes causing corneal damage.**Inhalation:** Mists are irritating to throat, nose and lungs.**Ingestion:** Irritating to the mouth, throat, and gastrointestinal system. Burning, pain, and diarrhea expected with large doses.**First Aid Procedures:****Skin:** Remove contaminated clothing. Flush affected areas with large quantities of water. Seek medical attention if irritation persists.**Eyes:** Flush with large quantities of water, holding eyelids open. Seek medical attention.**Inhalation:** Remove victim to fresh air and monitor. Seek medical attention if symptoms persist.**Ingestion:** Give large quantities of water. Seek medical attention immediately.

SECTION 8-SPECIAL PROTECTION INFORMATION

Respiratory Protection: No special requirements. Avoid breathing mists.**Ventilation Requirements:** Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.**Protective Gloves:** Latex, rubber, vinyl, or nitrile**Eye Protection:** Chemical goggles recommended when spraying diluted product.**Other Protective Equipment:** Eyewash station should be provided nearby.

SECTION 9-SPILL OR LEAK PROCEDURES

Steps to be taken in Case Material is Released or Spilled: Floors will become slippery. Avoid walking in product. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways.**Waste Disposal Method:** Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. Consult local authorities for disposal in public sewer. Do not dispose of into storm drain, stream, river or to ground. Rinse container thoroughly before discarding in trash.

SECTION 10-REGULATORY INFORMATION

SARA Title III - Section 311/312 -Hazard Categories:

No - Fire Hazard

No - Sudden Release of Pressure Hazard

No - Reactivity Hazard

Yes - Immediate (acute) Health Hazard

No - Delayed (chronic) Health Hazard

Shipping Information:

FOR CONTAINERS > 1 Gallon: Cleaning Compound

FOR 1 GALLON CONTAINERS : Cleaning Compound

FOR CONTAINERS < 1 GALLON : Cleaning Compound

HMIS Hazardous Materials**Identification System**

Health	2
Flammability	0
Reactivity	0
Personal Protection	B

FOR EMERGENCY MEDICAL OR TRANSPORT INFORMATION: CHEM-TEL, Inc. @ 800-255-3924 (24 hours, 7 days per week)

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CAS#	Chemical Name	Percent by Weight
	None	

This product contains the following chemical(s) which have been established to be either a carcinogen or suspected carcinogen.

CAS#	Chemical Name	Percent by Weight
	None	

SECTION 11-OTHER INFORMATION

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from the improper handling and use of this product

396.

MATERIAL SAFETY DATA SHEET**BULK-KRYLIC**

TRAVEL NAME ON LABEL

ROCK PAINT DISTRIBUTING CORP.

MANUFACTURER

MSDS NUMBER

365 SUNNYSIDE DR. P.O. BOX 482

ADDRESS

CAS NUMBER

MILTON, WI 53563

JANUARY 2009

DATE PREPARED

(608)868-6873 (920) 563-8545

PHONE NUMBER(FOR INFORMATION)

PREPARED BY

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS: CHEMICAL NAME & COMMON NAMES	%	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
WATER				
ACRYLIC EMULSION				
PIGMENT: ASSORTED NON-TOXIC COLORS				
CALCIUM CARBONATE				
PROPYLENE GLYCOL				
CELLULOSIC				

AS PER ASTM D-4236 AND AS PER THE ART AND CRAFT MATERIALS
INSTITUTE (ACMI) INC. THIS PAINT HAS BEEN CERTIFIED NON-TOXIC.

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT -	ABOUT 212	SPECIFIC GRAVITY (H ₂ O=1) -	ABOUT 9LBS PER GAL
VAPOR PRESSURE (mm Hg & TEMPERATURE) -	17mm Hg	MELTING POINT -	N/A
VAPOR DENSITY (AIR=1) -	NOT AVAILABLE	EVAPORATION RATE (WATER=1) -	SLOWER
SOLUBILITY IN WATER -	DILUTABLE	WATER REACTIVE -	N/A
APPEARANCE & ODOR -	SLIGHT AMMONIA ODOR, OR NO ODOR PRESENT		

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT & METHOD USED	AUTO	IGNITION TEMPERATURE	FLAMMABILITY LIMITS IN AIR % BY VOLUME	
N/A		N/A	N/A	
EXTINGUISHER MEDIA			LEL	UEL
FOAM - DRY CHEMICAL - CO ₂ - WATER SPRAY OR FOG				
SPECIAL FIRE FIGHTING PROCEDURES				
N/A				
UNUSUAL FIRE AND EXPLOSION HAZARDS				
N/A				

SECTION 4 - REACTIVITY HAZARD DATA

BULK-KRYLIC - 2

STABILITY

☒ STABLE☐ UNSTABLE

CONDITIONS TO AVOID

NONE KNOWN

INCOMPATIBILITY (MATERIALS TO AVOID) NONE KNOWN-HOWEVER PRODUCT PROPERTIES MAY BE ALTERED
BY MIXING WITH SOME MATERIALS.

HAZARDOUS DECOMPOSITION PRODUCTS THERMAL DECOMPOSITION IN THE PRESENCE OF AIR MAY YIELD CARBON
MONOXIDE AND/OR CARBON DIOXIDE AND TRACES OF MONOMER.

HAZARDOUS POLYMERIZATION

☐ MAY OCCUR☒ WILL NOT OCCUR

CONDITIONS TO AVOID

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY

☐ INHALATION☐ INGESTION☐ SKIN ABSORPTION☒ NOT HAZARDOUS

CARCINOGEN LISTED IN

☐ NTP☐ OSHA☐ IARC MONOGRAPH☐ NOT LISTED

HEALTH HAZARDS

☐ ACUTE☐ CHRONIC

SIGNS AND SYMPTOMS

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

EMERGENCY FIRST AID PROCEDURES -**SEEK MEDICAL ASSISTANCE FOR FURTHER TREATMENT, OBSERVATION AND SUPPORT IS NECESSARY.**

EYE CONTACT - DIRECT CONTACT WITH EMULSION MAY RESULT IN IRRITATION. FLUSH EYES IMMEDIATELY WITH
PLENTY OF WATER FOR AT LEAST 15 MINUTES AND CONSULT A PHYSICIAN. REMOVE CONTACTS FROM VICTIM.

SKIN CONTACT - PROLONGED OR REPEATED CONTACT WITH EMULSION MAY CAUSE SOME SKIN IRRITATION. WASH
SKIN THOROUGHLY WITH SOAP AND WATER; IF DRENCHED REMOVE AND WASH CLOTHING BEFORE REUSE.

INHALATION - N/A

INGESTION - IF VICTIM IS CONSCIOUS, GIVE TWO GLASSES OF WATER TO DRINK AND CALL A PHYSICIAN.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE) -

PROTECTIVE GLOVES -

RUBBER GLOVES RECOMMENDED

EYE PROTECTION -

CHEMICAL GOGGLES WITH EYE GUARD

VENTILATION TO BE USED -

LOCAL EXHAUSE -

MECHANICAL (GENERAL) -

SPECIAL -

OTHER (SPECIFY) -

OTHER PROTECTIVE CLOTHING AND EQUIPMENT -

N/A

HYGIENIC WORK PRACTICES -

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED -

ABSORB WITH DRYING MATERIAL OR FLUSH SPILLED MATERIAL INTO SUITABLE RETAINING AREA OR CONTAINER. PREVENT
SPILLED LIQUID FROM ENTERING SEWERS, STORM DRAINS, DRAINAGE SYSTEMS AND NATURAL WATERWAYS.

WASTE DISPOSAL METHODS -

DISPOSE OF PRODUCT IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

SHOULD BE STORED AT ROOM TEMPERATURE TO PROLONG SHELF LIFE.

KEEP FROM FREEZING AND FROM EXCESSIVE HEAT.

OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS -

N/A

HIMS RATING HEALTH _____ FLAMMABILITY _____ REACTIVITY _____ PERSONAL PROTECTION _____



MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Nasco- Guard

MANUFACTURER:

NASCO
901 Janesville Ave.
Fort Atkinson, WI 53538

INFORMATION TELEPHONE NUMBER:

24-Hour Contact: CHEMTREC
800-424-9300
General Information: 800-558-9595

SECTION 2- HAZARDS IDENTIFICATION

DANGER
MAY CAUSE CANCER WHEN INHALED
MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION

Relevant Routes of Exposure

Inhalation, eye contact, skin contact

Inhalation

May cause irritation to eyes and respiratory system. Formaldehyde has been classified as a known human carcinogen. The risk of injury depends on duration and level of exposure. This product contains a small amount of formaldehyde; exposures during expected use conditions are expected to be low.

Eye

May cause irritation

Skin

May cause an allergic skin reaction with direct liquid contact

Ingestion

Ingestion of this product is unlikely, however, if ingested in sufficient quantities, it may cause metabolic acidosis.

Medical Conditions Aggravated by Exposure

Pre-existing respiratory disorders may be aggravated by exposure

Target Organs

Eyes, respiratory tract

See Section 11: TOXICOLOGICAL INFORMATION for further information.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	EINECS #	Weight %
Propylene glycol	57-55-6	200-338-0	Less than 50%
Formaldehyde	50-00-0	200-001-8	>0.1% but <0.5%
Phenol	108-95-2	203-632-7	Less than 1%
Water	7732-18-5		Balance

SECTION 4: FIRST AID MEASURES

Eye Contact

If case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact lenses if worn. Seek medical attention if irritation persists.

Inhalation

Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Skin

Wash affected area with soap and water. Seek medical attention if symptoms develop.

Ingestion

Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use foam, carbon dioxide (CO₂), water fog or fine spray or dry chemical to extinguish fire.

Hazardous Decomposition Products

During a fire, smoke generated can be irritating or toxic. Products of combustion include but are not limited to carbon monoxide and carbon dioxide.

Special Protective Measures for Fire Fighter

Firefighters should wear self contained breathing apparatus and full fire fighting turnout gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid breathing vapors. Use gloves to clean up spills.

Environmental Precautions

No special hazards. Follow applicable federal, state, provincial and local regulations regarding releases.

Methods for Containment and Clean-up

Absorb with liquid binding material. Dispose in accordance with federal, state, provincial and local regulations.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Do not eat, drink or smoke when using this product. Avoid breathing of vapors. Avoid direct eye contact with liquids. Do not ingest. Wash hands with soap and water after use or handling.

Conditions for Safe Storage, Including Any Incompatibilities

No special storage requirements.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Guidelines

Substance	OSHA PEL	ACGIH TLV	Other Limits
Propylene glycol	NE	NE	10 mg/m ³ (TWA) (OARS WEEL)
Formaldehyde	0.75 ppm (TWA) 2 ppm (STEL)	0.3 ppm (C) (SEN)	NE
Phenol	5 ppm (TWA)(S)	5 ppm (TWA)(S)	NE

Exposure Limit Abbreviations

NE=	No Limit Established
OSHA PEL=	Occupational Safety and Health Administration Permissible Exposure Limit
ACGIH TLV=	American Conference of Governmental Industrial Hygienists Threshold Limit Value [®] , 2013 Edition
OARS WEEL=	Occupational Alliance for Risk Science Workplace Environmental Exposure Limit
C=	Ceiling limit
TWA=	Time Weighted Average
STEL=	Short Term Exposure Limit
S=	Skin designation
SEN=	Sensitizer designation
ppm=	parts per million
mg/m ³ =	milligrams per cubic meter of air

Appropriate Engineering Controls

General ventilation is usually adequate to control exposures. Do not use product in a confined area or areas with little or no air movement. If ventilation is not adequate, use appropriate respiratory protection.

Personal Protective Equipment

Eye Protection

Safety eyewear should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes.

Skin protection

Use gloves if there is direct contact with the liquid. Butyl or nitrile rubber gloves are recommended. Wear lab coat if liquid splashes could occur.

Respiratory Protection

Under normal use conditions, airborne exposures are not expected to exceed applicable exposure limits. If a risk assessment indicates that such protection is necessary, a NIOSH approved air purifying respirator with organic vapor cartridges may be used.

Ingestion Exposure

Wash hands after handling and before eating. Do not consume or store food in the work area.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Solid

Appearance and Odor:

Clear colorless liquid. Faint disinfectant -like odor.

pH

Not applicable

Melting Point:

Not applicable

Initial boiling point & boiling range

Not applicable

Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability	Not applicable
Upper/Lower flammability or explosive limits	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Relative Density	Not applicable
Solubility in Water	Not applicable
Partition Coefficient:	Not applicable
Auto-Ignition Temperature:	Not applicable
Decomposition Temperature:	Not applicable
Viscosity:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity

No dangerous reactions are expected under normal conditions of use.

Chemical Stability

Chemically stable under normal storage and handling conditions

Possibility of Hazardous Reactions

None known

Conditions to avoid

None known

Incompatible Materials

Avoid contact with strong acids, strong bases and strong oxidizers.

Hazardous Decomposition Products

Under expected usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products such as carbon monoxide, aldehydes, alcohols, ethers, organic acids and other compounds may be generated when material is subjected to high temperatures or fires.

SECTION 11: TOXICOLOGICAL INFORMATION

Nasco-Guard has not been tested as a mixture. Information about the individual components is supplied.

Acute Toxicity

Formaldehyde

LD₅₀ Oral= 800 mg/kg (Rat)

LC₅₀ = 400 mg/m³ (30 min; Mice)

Phenol

LD₅₀: 530 mg/kg (Oral; Rat)

LD₅₀: 100 mg/kg (Oral; Cat)

LD₅₀: 500 mg/kg (Oral; Dog)

LD₅₀: 660-707 mg/kg (Dermal; Rat)

LC₅₀ = 177 mg/m³ (30 min/Mice)

Propylene Glycol

LD₅₀: >20,000 mg/kg (Oral; Rat, Mouse)

LD₅₀: >18,000 mg/kg (Dermal; Rabbit, Guinea pig, Dog)

LC₅₀ = 317 mg/l (aerosol; 2 hr; Rabbit)

Skin Corrosion/Irritation

Formaldehyde

Administration onto the skin (rabbit): 2 mg/24 hr., Severe Irritant

Phenol

Not a sensitizer. Phenol is skin absorbable. Administration onto the skin (rabbit): 500 mg/24 hr., Severe Irritant

Propylene Glycol

May cause mild irritation, possibly due to dehydration of the skin

Eye Damage or Irritation

Formaldehyde

Administration into the eye (rabbit): 750 ug, Severe Irritant

Phenol

Concentrated solutions cause severe eye damage. Direct contact with the eye may cause redness, pain and blurred vision.

Propylene Glycol

May cause slight, temporary irritation. Corneal injury is not likely to occur.

Ingestion

May be harmful if swallowed.

Sensitization

Formaldehyde

Skin sensitizer in animal studies. No clear evidence of formaldehyde-induced asthma attributable to immunologic mechanisms has been identified. In some individuals contact dermatitis may occur.

Phenol

Not a sensitizer

Propylene Glycol

Did not cause allergic skin reactions when tested in humans. No relevant data for respiratory sensitization found.

Germ Cell Mutagenicity

Formaldehyde

Genotoxic effects after exposure via relevant routes are limited to those cells which are in direct contact with formaldehyde and no effects are observed in distant-site tissues.

Phenol

Negative and positive tests have been reported.

Propylene Glycol

Animal studies are in vitro tests were negative.

Component Carcinogenicity

Formaldehyde

Research studies of workers exposed to formaldehyde have suggested an association between formaldehyde exposure and several cancers, including nasopharyngeal cancer and leukemia. IARC-1 (Carcinogenic to Humans), NTP- K (Known to be a Human Carcinogen), AGCIH-A2 (Suspected Human Carcinogen), OSHA (Cancer Suspect Agent)

Phenol

Not listed

Propylene glycol

Not listed

Reproductive Effects

Formaldehyde

Does not have specific embryotoxic or teratogenic properties

Phenol

Does not have specific embryotoxic or teratogenic properties

Propylene glycol

Does not have specific embryotoxic or teratogenic properties

Specific Target Organ Toxicity-Single Exposure

Formaldehyde

Respiratory irritation.

Phenol

Acute ingestion and skin exposure can cause systemic effects such as anorexia, headache, dark urine, hypothermia, hypotension, arrhythmia and coma. At the phenol concentration in this product, these effects are not likely to occur.

Propylene glycol

May cause drowsiness or dizziness at high exposures when ingested.

Specific Target Organ Toxicity-Repeated Exposure

Formaldehyde

Effects limited to the area of contact (skin or respiratory tract).

Phenol

Adversely affects the nervous and hematopoietic systems; kidney, liver and skin. At the phenol concentration in this product, these effects are not likely to occur.

Propylene glycol

Repeated high exposure may cause central nervous system effects.

SECTION 12: ECOLOGICAL INFORMATION

General Product Information

Nasco-Guard has not been tested as a mixture. Information about the individual components is supplied.

Component Information

Formaldehyde

Unlikely to be a hazard because of the low percentage in the product as sold.

Phenol

Unlikely to be a hazard because of the low percentage in the product as sold.

Propylene glycol

Propylene glycol is essentially non-toxic to aquatic organisms on an acute basis. Biodegradable. Does not bioconcentrate.

SECTION 13: DISPOSAL INFORMATION

Dispose using methods which are in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORTATION INFORMATION

The US Department of Transportation (DOT) under CFR 172 does not regulate this product as a hazardous material. All federal, provincial, state and local laws and regulations that apply to the transport of this material must be adhered to.

Shipping Name: NA Symbols: NA Hazard Class: NA UN #: NA Packing Group: NA DOT/IMO Label: NA Special Provisions: NA	Packaging Authorizations a) Exceptions: NA b) Group: NA c) Authorizations: NA	Quantity Limitations a) Passenger, Aircraft, or Railcar: NA b) Cargo Aircraft Only: NA Vessel Stowage Requirements a) Vessel Stowage: NA b) Other: NA
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The International Maritime Dangerous Goods (IMDG) and the Regulations Concerning the International Carriage of Dangerous Goods by Rail (RID) classification, packaging and shipping requirements follow the US DOT Hazardous Materials Regulation.

Shipping Name: NA Classification Code: NA	Packaging a) Packing Instructions: NA	Portable Tanks & Bulk Containers a) Instructions: NA
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UN No.: NA Packing Group: NA ADR Label: NA Special Provisions: NA Limited Quantities: NA Special Provisions: NA	b)Special Packing Provisions: NA c) Mixed Packing Provisions: NA	b) Special Provisions: NA
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IATA– International Air Transport Association (IATA) does not regulate this product as a hazardous substance.

Shipping Name: NA Class/Division: NA Hazard Label (s): NA UN No.: NA Packing Group: NA Excepted Quantities (EQ): NA	Passenger & Cargo Aircraft Cargo Aircraft Only (EQ) Pkg Inst: NA Max Net Qty/Pkg: NA	Cargo Aircraft Only Pkg Inst: NA Max Net Qty/Pkg: NA	Special Provisions: NA ERG Code: NA
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SECTION 15: REGULATORY INFORMATION

The following regulatory information may not be complete and should not be relied upon as the sole source of information regarding regulatory responsibilities.

Occupational Health and Safety Administration

This product as sold does not have a specific exposure limit but individual components of the material are regulated under the OSHA Air Contaminant Standard (1910.1000) and OSHA Formaldehyde Standard (1910.1048).

CERCLA Hazardous Substance List (40 CFR 302.4):

The following components are listed:

Formaldehyde (50-00-0): maximum 0.3% max by weight
 Phenol (108-95-2): maximum 0.1% by weight

US EPA (SARA Title III) Section 302

The following components are listed:

Formaldehyde (50-00-0): maximum 0.3% max by weight; Reportable quantity-100 lbs
 Phenol (108-95-2): maximum 0.1% by weight; Reportable quantity-500 lbs

SARA TITLE III, Sections 311-312 Hazard Category

This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 and is considered a hazardous chemical and a delayed health hazard.

SARA Section 313 Information:

This product contains 2 substance subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Formaldehyde (50-00-0): maximum 0.3% max by weight
 Phenol (108-95-2): maximum 0.1% by weight

California Proposition 65 Compliance

Warning: This product contains chemicals known to the State of California to cause cancer and birth defects (or other reproductive harm):

Formaldehyde (CAS # 50-00-0)

US - New Jersey RTK - Substances

The following components are listed:

Formaldehyde (50-00-0): maximum 0.3% max by weight
 Phenol (108-95-2): maximum 0.1% by weight

US - Pennsylvania RTK - Hazardous Substances

The following components are listed:



Formaldehyde (50-00-0): maximum 0.3% max by weight
 Phenol (108-95-2): maximum 0.1% by weight

Canadian DSL Inventory Status

All of the components are listed on the DSL Inventory

Canada-WHMIS (Workplace Hazardous Materials Information System)

The following components are listed:

Component	WHMIS Classification
Formaldehyde  	D1A Very Toxic Material-Immediate D2A Very Toxic Material-Carcinogenicity & Mutagenicity D2B Toxic Material- Skin sensitization

Canadian Environmental Protection act (CEPA)

None of the components are on the CEPA Priorities Substances Lists

SECTION 16: OTHER INFORMATION

DATE PREPARED: January 2, 2014 (Rev. 1)
 (Original Issue: January 2, 2014)

This document has been prepared solely for the intent of compliance with the provisions of Subpart 2 of Part 1910 of Title 29 of the Code of Federal Regulations, paragraph 1910.1200. NASCO MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTIES OTHERWISE ARISING FROM COURSE OF DEALING OR TRADE.

SUMMARIZED MSDS AND ENVIRONMENTAL INFORMATION
FOR NASCO-GUARD® SPECIMENS
UPDATED JULY 2008

Manufacturer's Name: NASCO, Fort Atkinson, Wisconsin 53538-0901
Emergency Phone Number: 920-568-5565

The following safety data applies to NASCO-Guard® preservative fluid (or tissue fluids) containing approximately 74% water, 25% propylene glycol (1, 2-propanediol), 0.3% or less formaldehyde, and a possible trace of phenol. The Chemical Abstracts Service (CAS) registration number for propylene glycol is 57-55-6. The CAS number for formaldehyde is 50-00-0. The CAS number for phenol is 108-95-2. As required by law, we will provide complete information on each of the fixative and preservative chemicals that may be present in our specimens.

GENERAL INFORMATION: NASCO-Guard® specimens are initially fixed in formaldehyde solutions ranging from 0.8%-3.7%. The embalming fluid of large animals (e.g., cats, dogs, fetal pigs) may also contain 1.9% phenol. All specimens are subsequently perfused with a propylene glycol-water solution until tissue fluids and ambient fluids contain 20% to 25% glycol. Residual free formaldehyde is thus reduced to 0.3% or less. Phenol, if present, is reduced commensurately. Propylene glycol is nontoxic.

APPEARANCE AND ODOR: Colorless, sweet tasting liquid with mild odor (slight disinfectant odor if phenol is present).

FIRE AND EXPLOSION HAZARD: None.

HEALTH HAZARD: NASCO-GUARD® PRESERVATIVE FLUID (OR TISSUE FLUIDS)

EYES: Direct contact with eyes may cause irritation. Wash eyes with water. Safety glasses may be worn as a precautionary measure.

SKIN: Mild irritation possible in hypersensitive individuals. Wash hands with soap and water after handling specimens. Rubber or plastic gloves may be worn as a precautionary measure.

INHALATION: Very small quantities of formaldehyde gas can cause distress (dizziness, nausea, headache, etc.) in hypersensitive individuals. Specimens should be used in a well-ventilated room.

ORAL: Because NASCO-Guard® specimens are moist packed little fluid is available for consumption. Residual phenol could be toxic, but ingestion is unlikely due to medicinal odor.

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING: Drink large amounts of water. Do not induce vomiting. Get medical attention immediately.

SKIN: Wash with soap and water.

INHALATION: Remove to fresh air. Call a physician if discomfort persists.

EYES: Flush with water.

SUPPLEMENTAL INFORMATION ON CHEMICALS THAT MAY BE PRESENT IN NASCO-GUARD® SPECIMENS.

PROPYLENE GLYCOL is nontoxic, as evidenced by its wide use in foods, pharmaceuticals, and cosmetics. Ingestion may cause nausea. It may cause minor skin irritation.

FORMALDEHYDE is well known for its toxic and irritant properties. A large quantity of NASCO-Guard® would have to be ingested to inflict a lethal dose because its residual formaldehyde concentration is 0.3% or less.

PHENOL can be toxic. Because phenol has a distinct medicinal smell, however, it is unlikely that specimens containing phenol would be eaten. Phenol's wide use as a disinfectant and deodorant attests to its relative safety when used in highly diluted solutions.

Detailed MSDS information for propylene glycol is included in this summary. Detailed MSDS information for formaldehyde and phenol may be ordered from NASCO's Safety Officer, Dept. MSDS, 901 Janesville Avenue, Fort Atkinson, WI 53538-0901. Be reminded however that the tabulated chemical and physical properties are for "full strength" concentrations. Formaldehyde and phenol are present in our specimens in only trace amounts. Propylene glycol and water are the main ingredients; both are nontoxic.

DISPOSAL OF SPECIMENS:

NASCO-Guard® specimens are biodegradable. They are suited for burial in an approved sanitary landfill or for incineration. Ambient fluids may be safely disposed via city sewers.

PRESERVED SPECIMEN POLICY STATEMENT

NASCO is a manufacturer and distributor of physical science, chemistry, earth science, and life science teaching materials including preserved zoological specimens. In the course of doing business, skilled NASCO employees preserve, process, and package specimens under the trade name of NASCO-Guard® Preserved Specimens according to guidelines of the U.S. Department of Agriculture. We do not process or sell any specimens that might appear on a threatened or endangered species list.

Since 1941, NASCO has been dedicated to Educational Supply. Specimens sold in the Nasco catalog are collected and processed throughout the world. In our facility we are licensed and/or governed by the U.S. Fish and Wildlife Service, the United States (and Wisconsin) Departments of Agriculture, and the Wisconsin Department of Natural Resources. We follow all guidelines for euthanasia as listed in the Report of the American Veterinary Medical Association Panel on Euthanasia. Worldwide collections are also monitored by the Convention on International Trade in Endangered Species (CITES). Examples of this would be fish which are collected for their food value and night crawlers which are primarily collected to use as fishing bait. Many other specimens that we supply come to us from Midwest slaughterhouses. If NASCO did not purchase materials for preservation, these inedible animal parts would normally be processed for pet food.

All the cat carcasses processed by NASCO come to us from licensed humane societies, animal shelters and animal control facilities after they have been humanely euthanized in accordance with USDA regulations. It is our policy and belief that none of the cats have been euthanized solely to serve the needs of the biological supply industry. It is our policy to process and recycle only euthanized cat carcasses.

Thank you for purchasing NASCO-Guard® specimens. If you need further information about our NASCO-Guard® Preserved Specimens, please contact us.

MATERIAL SAFETY DATA SHEET

MSDS # 81860

Section One: Identification

Newell-Rubbermaid (Sanford LP)
2707 Butterfield Road
Oak Brook, IL 60523 USA
800-323-0749 or 630-481-2000

EMERGENCY MEDICAL NUMBER:

888-786-0972

Product Name: Expo White Board (Care) Cleaner, Expo White Board (Care) Cleaning Wipes,

Colors: Not applicable

NewellRubbermaid, Inc (Sanford L.P.) is a member of The Art and Creative Materials Institute, Inc. This product is certified by the Institute to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236 and is labeled with the AP Non Toxic Seal. Products bearing the AP Approved Product Seal of The Art and Creative Materials Institute, Inc. are certified in a program of toxicological evaluation by a medical expert, subject to review by the Institute Toxicology Advisory Board, to contain no materials in sufficient quantities to be toxic or injurious to humans, or to cause acute toxicity or chronic health problems.

Section Two: Hazard Identification

Not Hazardous under normal use conditions. Contact with eyes may cause irritation

Section Three: Hazardous Ingredients

Water, Propylene glycol n-Butyl ether (5131-66-8)

Section Four: First Aid Measures

Inhalation: Remove source of irritation. If symptoms persist seek medical attention

Skin Contact: Wash with soap and water. If irritation persists seek medical attention.

Eye Contact: Rinse eyes with water, if irritation persists seek medical attention.

Ingestion: If symptoms occur seek medical attention.

Section Five: Fire Fighting Measures

Flash Point: N/A

Extinguishing Media: Water, dry chemical, alcohol foam or carbon dioxide. Water spray may be used to keep exposed material cool.

Fire and Explosion Hazards: Combustion/fires produce smoke consisting of carbon dioxide, carbon monoxide, and other potentially toxic gases.

Section Six: Accidental Release Measures

In Case of Spill or Accidental Release: Wipe up with absorbent material.

Section Seven: Handling and Storage

Recommended Storage Conditions: Keep container closed when not in use.

Section Eight: Exposure Controls and Personal Protection

Eye Protection: None under normal use conditions.

Clothing: None under normal use conditions.

Respirator: None under normal use conditions.

MATERIAL SAFETY DATA SHEET

MSDS # 81860

Section Nine: Physical and Chemical Properties

Form:	Liquid	Color:	Colorless
Odor:	Mild	Boiling Point:	N/D
Solubility in Water:	Soluble	Specific Gravity:	N/D
Melting/Freezing Point:	N/D	Evaporation Rate:	Not Applicable
Auto Ignition Temperature:	N/A	Flash Point:	Not Applicable
pH:	6-8	Vapor Pressure:	Not Applicable
VOC:	Not Applicable		

Section Ten: Stability and Reactivity

Stability:	Stable under ordinary conditions of use and storage
Conditions to Avoid:	Strong oxidizing agents
Incompatibility with Other Materials:	Acids and oxidizers
Decomposition:	May produce carbon monoxide, carbon dioxide, nitrogen oxides and irritating fumes
Polymerization:	Polymerization cannot occur

Section Eleven: Toxicological Information

See Section Two: Hazard Identification for any hazards

Section Twelve: Ecological Information

Environmental Fate:	No information found
Environmental Toxicity:	This material is not expected to be toxic to aquatic life
Chemical Fate	Material is readily biodegradable

Section Thirteen: Disposal Considerations

Dispose in accordance with Federal, State and Local Regulations

Section Fourteen: Transport Information

Domestic (Land, DOT), International (Water, IMO), International (Air, ICAO, IATA)	
DOT:	Not Regulated
IATA:	Not available
IMO:	Not available

Section Fifteen: Regulatory Information

TSCA and DSL: The product listed on this Material Safety Data Sheet is not listed on the Toxic Substances Control Act Inventory or Domestic Substance List. All ingredients used to manufacture this product are listed on the TSCA and DSL Inventories.

MATERIAL SAFETY DATA SHEET

MSDS # 81860

Section Sixteen: Other Information

HMIS Code

Health	1
Flammability	0
Reactivity	0
Personal Protection	NA

0=Minimal / 4 = Extreme

NewellRubbermaid, Inc (Sanford L.P) has been advised by Counsel that the OSHA Hazard Communication Standard and the Health Canada Workplace Hazardous Materials Information Standard do not apply to the product described in this Material Safety Data Sheet. The reasons for the exemptions are contained in 29 CFR 1910.1200(b)(6)(ix) as amended Sept 14, 2009 per the Code of Federal Regulations and also Canadian Hazardous Products Act part 12 section (f) as amended June 1, 2009. The information contained in this MSDS is forwarded to you for your information, but is not meant to imply that the product is covered by nor is this MSDS meant to comply with all requirements of the hazard communication standards

Reference Product Images



Material Safety Data Sheet

May be used to comply with OSHA's
Hazardous Communication Standard, 29 CFR 1910.1200

NPCA Hazardous Materials Identification System

Specific Hazard	Personal Protection
4-Severe	X-Ask a supervisor
3-Serious	A-Safety Glasses
2-Moderate	B-Goggles, Gloves
1-Slight	C-Goggles, Gloves, Apron
0-Minimal	D-Goggles, Gloves, Apron, & Faceshield

IDENTITY (As used on LABELS and LIST)

Neutral Cleaner NL104

Health (1) Reactivity (0)
Flammability (0) Personal Protection (B)

SECTION I

MFGR'S NAME AND ADDRESS

Newline Industries

1030 West Amelia Street Orlando, FL 32805

For additional information

407-480-5464

DATE PREPARED:

EMERGENCY TELEPHONE NUMBER

800-535-5053

03/01/2010

SECTION II-HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components	OSHA PEL	ACGIH	Other	%Optional
Specific Components			Limits	
Specific Chemical Identity			Recommended	
Common Name(s)				

NONE

SECTION III-PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT (F)	Over 212°F	SPECIFIC GRAVITY (H ₂ O=1)	1.0084
VAPOR PRESSURE (mmHg)	N/A	MELTING POINT	N/A
VAPOR DENSITY (air=1)	N/A	EVAPORATION POINT	Less than 1
SOLUBILITY IN WATER	Complete	(Butyl Acetate=1)	

APPEARANCE AND ODOR: Clear blue liquid with a pleasant Fresh fragrance.

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED)	FLAMMABLE LIMITS	LEL	UEL
Over 350°F Closed Cup	N/A	N/A	N/A

EXTINGUISHING MEDIA: Carbon Dioxide, Water Fog or Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES: A NIOSH-approved respirator should be worn when fighting fires, especially in confined areas.

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

SECTION V -REACTIVITY DATA

Neutral Cleaner NL104

STABILITY: UNSTABLE () **CONDITION TO AVOID:**
STABLE (X) Extreme Heat

INCOMPATIBILITY (Materials to Avoid)

Strong oxidizing agents.

HAZARDOUS DECOPOSITION OR BYPRODUCTS

Release carbon monoxide, carbon dioxide and sulfur dioxide on thermal decomposition.

HAZARDOUS May Occur () **CONDITIONS TO AVOID:**
Polymerization May Not Occur (X) Extreme Heat

SECTION VI-HEALTH HAZARD DATA

ROUTE(S) OF ENTRY:

INHALATION: No

SKIN: Yes

INGESTION: No

Health Hazards (Acute and Chronic)

Skin and Eye Irritation on contact. Product is non-toxic.

CARCINOGENICITY: NTP IARC Monographs? OSHA Regulated?
No No No

SIGNS AND SYMPTOMS OF EXPOSURE:

Skin and eye irritation on contact.

MEDICAL CONDITONS GENERALLY AGGRAVATED BY EXPOSURE:

Skin and eye problems may become aggravated if prolonged contact is made.

EMERGENCY AND FIRST AID PROCEDURES:

In case of contact, flush with large amounts of water for at least 15 minutes. If irritation continues, see a physician. IF ingested: Induce vomiting and consult a physician.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Confine as much as possible. Dike and absorb with inert material such as sand or vermiculite.

WASTE DISPOSAL METHOD:

Dispose of waste in accordance with Federal, State, and Local ordinances.

PRECAUTION TO BE TAKEN IN HANDLING AND STORING:

Do not store containers at extremely high temperatures.

OTHER PRECAUTIONS: All precautions in this MSDS must be observed.

SECTION VIII- CONTROL METHODS

RESPIRATORY PROTECTION:

(Specific Type):None

VENTILATION:

LOCAL EXHAUST:	Normal	SPECIAL:	None
MECHANICAL (General)	None	OTHER:	None

PROTECTIVE GLOVES: Rubber.

EYE PROTECTION: Chemical splash goggles.

OTHER PROTECTIVE EQUIPMENT: None

WORK/HYGENIC PRACTICES: Wash thoroughly after handling.

We believe all information given is accurate. It is offered in good faith, but without guarantee. Since conditions are beyond our control, user assumes all responsibility and risk.

OMNIGUARD™ UHS FLOOR COATING

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: OmniGuard UHS Floor Coating
Product Type: Polymer Emulsion

Product Number: 141

Manufacturer Address:

Amano Pioneer Eclipse Corporation
P.O. Box 909
1 Eclipse Road
Sparta, NC 28675

Contact Information:

Telephone: 1-336-372-8080
Email: msds@pioneer-eclipse.com
Internet: www.pioneer-eclipse.com

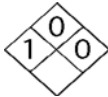
FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure or Accident. Call CHEMTREC Day or Night.
Within USA and Canada 1-800-424-9300. Outside USA and Canada +1-703-527-3887 (collect calls accepted)

2: HAZARDS IDENTIFICATION

OSHA status: Not classified as hazardous.
Precautions: Keep container closed when not in use. Keep out of reach of children.

Potential Health Effects:

Eye Contact: None expected under normal use.
Skin Contact: None expected under normal use.
Inhalation: None expected under normal use.
Ingestion: None expected under normal use.

	
Health:	1
Flammability:	0
Reactivity:	0

3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient	CAS Number	Weight %
diethylene glycol monoethyl ether	111-90-0	3 - 7

4: FIRST AID MEASURES

Eye Contact: Rinse with plenty of water. If irritation develops and persists, seek medical attention.
Skin Contact: Wash with soap and plenty of water. If irritation develops and persists, seek medical attention.
Inhalation: If breathing is difficult, remove to fresh air. If symptoms persist, seek medical attention.
Ingestion: If ingested, do not induce vomiting. Seek medical attention.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Dry chemical, water spray, foam, carbon dioxide
Special Fire Fighting Procedures: None
Hazardous Combustible Products: Materials can splatter above 212 °F / 100 °C
Unusual Fire and Explosion Hazards: No special fire fighting procedures recommended

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Put on personal protective equipment (see Section 8). Keep spectators away.
Environmental Precautions: Floors may be slippery: use care to avoid falling.
Containment and Clean-Up: Keep spills and cleaning run-off out of sewers and open bodies of water.
Small Spills: Absorb spill with inert material (e.g. sand, earth) and dispose of as waste material in accordance with local, state and federal regulations.
Large Spills: Dike and contain spill with inert material (e.g. sand, earth). Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for disposal.
Waste Disposal: Landfill or incinerate the contaminated solids and diking material in accordance with local, state and federal regulations. Non-salvageable liquid should be drummed and disposed of in accordance with local, state and federal regulations.

7: HANDLING AND STORAGE

Handling: Avoid contact with eyes and skin. Wash thoroughly after handling. Use in well-ventilated areas.
Storage: Storage temperature (Max. 60°C/140°F - Min. 1°C/34°F).
Other information: Keep from freezing, product may coagulate. Keep container sealed when not in use. Keep out of reach of children.

OMNIGUARD™ UHS FLOOR COATING

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits: None
Engineering Controls: Ensure adequate general ventilation.
Personal Protective Equipment (PPE)
Eye/Face Protection: Safety glasses recommended.
Skin Protection: Rubber gloves recommended.
Respiratory Protection: No specific personal protection is required.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: milky, white liquid	Odor: mild odor (no added fragrance)
Odor Threshold: N/E	pH: 8.0
Freezing Point: 32 °F / 0°C	Boiling Point: 212 °F / 100 °C
Flash Point: >200 °C (>93°F)	Evaporation Rate: less than water
Flammability: non-combustible	Upper/Lower Flammability limits: N/E
Vapor Pressure: less than water	Vapor Density: greater than air
Relative Density: 8.5 lb/gal @ 68°F / 1.03 kg/l @ 20°C	Solubility: 100% soluble in water
Partition Coefficient (n-octanol/water): N/E	Auto Ignition temperature: N/E
Decomposition Temperature: N/E	Volatile by Weight: 75%
Viscosity: < 10 centipoise @ 68 °F (20 °C)	VOC: 0.06%

10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions.
Conditions to avoid: None known
Incompatible materials: Strong acids and bases
Hazardous decomposition products: None known
Hazardous reactions: None known

11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Not determined on product.

Ingredient	LD50 Oral-Rat	LD50 Dermal - Rabbit	LC50 (4hr) Inhalation-Rat	Carcinogenicity	CA - Prop 65
diethylene glycol monoethyl ether	1920 mg/kg	4200 µl/kg	>5240 mg/m ³	N/L	N/L

LOCAL EFFECTS

Skin contact: None expected
Eye contact: May cause mild irritation.
Sensitization: None expected
Chronic effects: None expected

SPECIFIC EFFECTS

Carcinogenicity: None known
Reproductive effects: None known
Teratogenicity: None known
Mutagenicity: None known

12: ECOLOGICAL INFORMATION

Ecological data not available.

13: DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, regional, and national regulations.

14: TRANSPORT INFORMATION

This product is not classified as hazardous for transportation.

15: REGULATORY INFORMATION

U.S. Regulations/Reporting

Ingredient	CAS Number	SARA 302/304	SARA 311/312	SARA 313	CERCLA
diethylene glycol monoethyl ether	111-90-0	N/L	N/L	present*	***

State Right to Know Status:

Ingredient	CAS Number	MA - RTK	NJ - RTK	PA - RTK	RI - RTK
diethylene glycol monoethyl ether	111-90-0	N/L	N/L	present*	N/L

OMNIGUARD™ UHS FLOOR COATING

Canada Regulations/Reporting: This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations (CPR)* and the MSDS contains all of the information required by the *CPR*.

WHMIS hazard class: Not classified with hazards. Not a controlled product

Ingredients required for disclosure:

Ingredient	CAS Number	Weight %	Classification
diethylene glycol monoethyl ether	111-90-0	>1 %	B3, D2B

16: OTHER INFORMATION

Product intended for COMMERCIAL AND INDUSTRIAL USE ONLY.

Abbreviations Used:

N/E - Not Established

N/A - Not applicable

N/L - Not Listed

* - listed as generic class Glycol Ethers

*** - No RQ assigned, although a CERCLA hazardous substance

Revision History:

12/6/2012- MSDS issue

Neither this data sheet nor any statement contained herein grants or extends any license, expressed or implied, in connection with patents issued or pending which may be the property of the manufacturer or others. The information in this data sheet has been assembled by the manufacturer based on its own studies and the work of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) or the vendee, the vendee's employees or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnish of such information.

This MSDS has been provided to you in accordance with the OSHA Hazard Communication Standard (29CFR1910.1200).

****IMPORTANT SAFETY INFORMATION**DO NOT DISCARD**PLEASE ROUTE TO COMPANY SAFETY OFFICER****

Ultrapac Pre-Treat with LVC

MSDS Number: S903

Revision Date: November 13, 2013

Page 1 of 5

1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Kärcher North America, Inc.
Prochem
325 S. Price Road
Chandler, AZ 85224

Contact: Prochem
Phone: 480-899-7000
Fax: 480-786-9538
Email: info@prochem.com
Web: www.prochem.com

Product Name: Ultrapac Pre-Treat with LVC
Revision Date: November 13, 2013
Version: 44-50B
MSDS Number: S903

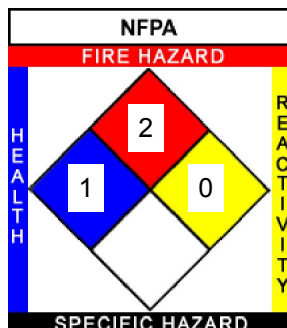
Emergency Information: INFOTRAC 1-800-535-5053 International 1-352-323-3500

2 HAZARDS IDENTIFICATION















































Route of Entry: Eyes; Skin; Inhalation;
Target Organs: Eyes; Skin;
Inhalation: Minimal respiratory tract irritation may occur with exposure to a large amount of material.
Skin Contact: May cause irritation.
Eye Contact: May cause irritation.
Ingestion: Ingestion is not applicable route of entry for intended use.

NFPA:
HMIS III:

Health = 1, Fire = 2, Reactivity = 0
H1/F2/PH0



HMIS III	
HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARDS	0
PERSONAL PROTECTION B Safety Glasses, Gloves	

PERSONAL PROTECTION INDEX													
A						G	 +  + 						
B	 + 					H	 +  +  + 						
C	 +  + 					I	 +  + 						
D	 +  + 					J	 +  +  + 						
E	 +  + 					K	 +  +  + 						
F	 +  +  + 					X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions						
A		n		o		p		q		r		s	
Safety Glasses													
t		u		w		y		z		Additional Information			
Dust Respirator													
Vapor Respirator													
Dust & Vapor Respirator													
Full Face Respirator													
Airtight Hood or Mask													

GHS Classifications:

□ Health, Acute toxicity, 5 Dermal

GHS Phrases:

Ultracac Pre-Treat with LVC

MSDS Number: S903

Revision Date: November 13, 2013

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☐ Warning, H313 - May be harmful in contact with skin

GHS Precautionary Statements:

- ☐ IF ON SKIN: Gently wash with soap and water.
- ☐ Call a POISON CENTER or doctor/physician if you feel unwell.

GHS PICTOGRAMS:

No GHS Pictograms

3 HAZARDS IDENTIFICATION

Ingredients:

CAS #	Percentage	Chemical Name
111-76-2	<3%	Ethylene glycol monobutyl ether
112-34-5	<8%	Diethylene glycol monobutyl ether

OSHA Regulatory Status:

This SDS contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

4 FIRST AID MEASURES

Inhalation:	If symptoms develop, move victim to fresh air; if symptoms persist, obtain medical attention.
Skin Contact:	Wash with soap and water. If irritation persists consult medical personnel.
Eye Contact:	Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation. Get immediate medical attention.
Ingestion:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. If injured party is conscious, give two glasses of water. Seek medical attention.

5 FIRE FIGHTING MEASURES

Flash Point:	>212°F
Flash Point Method:	Closed Cup

Wear self-contained breathing apparatus and other protective clothing. Use any standard agent - choose the one most appropriate for type of surrounding fire.

6 ACCIDENTAL RELEASE MEASURES

Keep away from drains and ground water. Keep all unnecessary personnel away. Spill area may be slippery. Pick up excess with inert absorbent material and place into separate waste container. Ventilate area and wash spill site after material pickup is complete. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

Ultracac Pre-Treat with LVC

MSDS Number: S903

Revision Date: November 13, 2013

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7 HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes, skin, or clothing; Consider normal working hygiene. Handle with care and avoid spillage on the floor (slippage). Keep away from sources of ignition; wash thoroughly after handling.

Storage Requirements: Keep away from children. Store in cool/dry area; Keep container closed.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Normal room ventilation is satisfactory for limited use.

Personal Protective Equip: HMIS PP, B | Safety glasses, Gloves

Ethylene glycol butyl ether 111-76-2 OSHA PEL 50 ppm - 240 mg/m3

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Opaque carmel	Odor:	Solvent
Physical State:	Liquid	Solubility:	Soluble
Spec Grav./Density:	9.52 lb/gal		
pH:	9.48 as is		

10 STABILITY AND REACTIVITY

Stability: Product is stable under normal conditions.

Conditions to Avoid: None Known

Materials to Avoid: None Known

Hazardous Decomposition: Exposure to fire may liberate carbon dioxide, carbon monoxide, organic acids, and other unidentified thermal decomposition products from this product or its packaging.

Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Toxicity Data:

Ethylene glycol butyl ether 111-76-2

Oral (LD 50): 917 mg/kg - Rat

Inhalation (LC 50): 2900 mg/m3/7H - Rat

Skin irritation: Mild

Eye irritation: Mild

Sensitation: Not considered an occupational sensitizer

Diethylene glycol butyl ether 112-34-5

Oral (LD 50): 5660 mg/kg - Rat

Inhalation (LC 50): Not listed on RTECS

Ultracac Pre-Treat with LVC

MSDS Number: S903

Revision Date: November 13, 2013

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Skin irritation: Moderate

Eye irritation: Severe

Sensitation: Not considered an occupational sensitizer

12 ECOLOGICAL INFORMATION

On the basis of available information, this material is not expected to produce any significant environmental effects when recommended use instructions are followed.

13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

14 TRANSPORT INFORMATION

Ship in accordance with 49 CFR parts 100-185. Non-hazardous for air, sea and road freight.

15 REGULATORY INFORMATION

COMPONENT / (CAS/PERCENT) / CODES

*Ethylene glycol monobutyl ether (111762 <3%) MASS, OSHAWAC, PA, TSCA, TXAIR, WHMIS

*Diethylene glycol monobutyl ether (112345 <8%) TSCA, WHMIS

REGULATORY KEY DESCRIPTIONS

All components are listed on TSCA

MASS = MA Massachusetts Hazardous Substances List

OSHAWAC = OSHA workplace Air Contaminants

PA = PA Right-To-Know List of Hazardous Substances

TXAIR = TX Air Contaminants with Health Effects Screening Level

WHMIS = workplace Haz Mat Info Sys Canada

SDS

Safety Data Sheet

Prochem

PROCHEM
#1 FOR A REASON!

Ultracac Pre-Treat with LVC

MSDS Number: S903

Revision Date: November 13, 2013

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16

OTHER INFORMATION

This document is prepared in accordance with 29 CFR 1910.1200. The purpose of this section is to ensure that the hazards of all chemicals produced or imported are evaluated, and that information concerning their hazards is transmitted to employers and employees.

All information appearing herein is based upon data obtained from the raw material manufacturer and/or recognized technical sources. While the information above is believed to be true and accurate, the author makes no representations as to its accuracy or sufficiency. Conditions of use are beyond the manufacturer's control; therefore the users are responsible to verify this data under their own particular conditions, applications and regulations to determine if the product is suitable for their particular purposes. The users assume all risks of product use, handling, disposal, reliance upon, publication or use of the information contained herein. This information applies only to the product designated above and does not necessarily apply to its use in combination with other materials, products, chemical compounds, structures or processes.

Prepared by: EHS Manager

Phone Number: [480] 899-7000



The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
5299 Spring Grove Avenue
Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS #: RQ1309635 / RQ1310080 / RQ1310594
Supersedes: RQ1102048

Issue Date: 1/29/2014
Issue Date: 12/20/2011

SECTION I - PRODUCT IDENTIFICATION

Identity: **Liquid Hand Dishwashing Detergents and Antibacterial Hand Soaps**
Brands: **ULTRA DAWN**

Finished Product

Ultra Dawn Original [96286475]
Ultra Dawn Lemon [96286480]

Orange Dishwashing Liquid/Antibacterial Hand Soap [96268211],
Apple Blossom Dishwashing Liquid/Antibacterial Hand Soap [96268210]

Dawn Pure Essentials
Sparkling Mist [96285526]
Citrus Infusion [96285555]

Dawn Destinations
Hawaiian Pineapple [92055661]
Thai Dragonfruit [96285472]
New Zealand Springs [92055670]
Mediterranean Lavender [92247546]
Fuji Cherry Blossom [96403605]
Caribbean Breeze [96403609]
Malibu Sunrise [96591236]

P&G Telephone Number: 1-800-725-3296
or call Local Poison Control Center or your physician.

SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestion: Ingestion may cause transient gastrointestinal irritation.

Eye Contact: May cause mild, transient irritation.

Skin: Transient irritation with prolonged exposure to concentrated material.

Inhalation: N/A

Signs and Symptoms of Exposure:

Ingestion: May result in nausea, vomiting, and/or diarrhea.

Eye Contact: May cause stinging, tearing, itching, swelling, and/or redness.

Skin: Prolonged contact with concentrated material may be drying or transiently irritating to skin.

Inhalation: N/A

SECTION III - COMPOSITION AND INGREDIENTS

Ingredients listed on the product label are: biodegradable surfactants and **no phosphate**. For antibacterial hand soaps, active ingredient is triclosan at 0.1%. Inactive ingredients for antibacterial hand soaps are listed in the Drug Facts box on back label.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition Range</u>	<u>LD50/LC50</u>
Ethyl alcohol	Ethanol	64-17-5	1-5%	LD50(oral, rat) – 7.06 g/kg
Alcohol Ethoxysulfate, sodium salt	Sodium Laureth Sulfate	68585-34-2	10-30% total anionic surfactant	LD50 (oral, rat) - >2g/kg
Alcohol Sulfates, sodium salt	Sodium Lauryl Sulfate	68585-47-7		LD50 (oral, rat) - >2g/kg
Amines, C10-16 alkyl dimethyl, N-oxides	Alkyl Dimethyl Amine Oxide	70592-80-2	1-5%	LD50 (oral, rat) - 1.33 g/kg
These substances are listed because in their pure bulk form they meet the OSHA and/or WHMIS definition of hazardous. Any hazards associated with this finished product are listed in Section II of this MSDS.				

SECTION IV – FIRST AID INFORMATION

First Aid Procedures:

Ingestion: Drink 1 or 2 glasses of water.

Eye Contact: Flush thoroughly with water for 15 minutes.

Skin: If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes. If symptoms persist or recur, seek medical attention.

Inhalation: N/A

Other: Consumer product package has the following precautionary statement on the back label: “For external use only. Keep out of the reach of children. If Dawn gets in eyes, rinse thoroughly with water. If swallowed, drink a glass of water to dilute.”

SECTION V - FIRE FIGHTING INFORMATION

Flammable Properties: The liquid hand dishwashing detergents have a flashpoint of 115-135°F (46.1-57.2°C) Pensky-Martens (Closed cup). However, the detergents do **not** sustain combustion according to ASTM D4206.

Flammable Properties:

Upper Flammable Limit: N/A

Lower Flammable Limit: N/A

Explosive Limits: UEL: N/A LEL: N/A

Auto-ignition Temperature: N/A

Hazardous Combustion Products: N/A

Explosion Data (Sensitivity to Mechanical Impact): N/A

Explosion Data (Sensitivity to Static Discharge): N/A

Extinguishing Media:

Suitable: CO₂, water or dry chemical may be used.

Unsuitable: N/K

Protection of Firefighters:

Specific Hazards Arising from the Material: None.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Solutions of the detergents may be allowed to be flushed down sewer - First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

Steps To Be Taken in Case Material is Released or Spilled: Prevent spills from reaching a waterway. Sorbents may be used. Read "Waste Disposal Method" below for further information.

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: No special precautions necessary.

Precautions To Be Taken in Storage: No special precautions necessary.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommended Exposure Guidelines: Ethanol (CAS# 64-17-5) ACGIH-TLV 1000 ppm
OSHA Z-1 PEL 1000 ppm

Engineering Controls: N/A

Personal Protective Equipment (PPE): N/A

Eye/Face Protection: None required with normal household use.

Industrial Setting: For splash protection, use chemical goggles. Eye wash fountain is recommended.

Skin Protection: None required with normal household use.

Industrial Setting: Protective gloves (rubber, neoprene) should be used for prolonged direct contact.

Respiratory Protection: No special precautions for casual exposure.

Ventilation *Local Exhaust:* None required with normal consumer use. *Special:* None

Industrial (General): Normal/general dilution ventilation is acceptable. *Other:* None

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape): Clear, opaque or colored liquids.

Flash Point (Method Used): 115-135°F (46.1-57.2°C)
Pensky-Martens (Closed cup) but do **not** sustain combustion according to ASTM D4206.

Odor: Perfumed

Reserve Alkalinity: N/A

Odor Threshold: N/A

Solubility in Water: Complete

Physical State: Liquid hand dishwashing solution

Decomposition Temperature: N/K

Vapor Pressure (mm Hg): N/K

Evaporation Rate (nBuOAc=1): N/K

Vapor Density (Air=1): N/K

Specific Gravity/Density: ca. 1

Boiling Point: N/K

Melting/Freezing Point: ~ 30 °F (-1.1°C)

Partition Coefficient (n-octanol/water): N/K

pH (10% solution): 9

Volatile Organic Compound (VOC): Not applicable - Product not regulated for VOC Content at State or Federal level

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: None known

Incompatible Materials: None

Hazardous Decomposition Products: None known

Possibility of Hazardous Reactions: None known

SECTION XI - TOXICOLOGICAL INFORMATION

Liquid hand dishwashing detergents have a relatively low order of toxicity, may cause transient irritation and are expected to be emetic.

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished product is not carcinogenic. **NTP:** No **IARC:** No **OSHA:** No

SECTION XII - ECOLOGICAL INFORMATION

All surfactants are readily biodegradable.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: DISPOSAL SHOULD BE IN ACCORDANCE WITH FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS

Non Household Setting: Products covered by this MSDS, in their original form, when disposed as waste, are considered **non hazardous waste** according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations. Solutions of diluted detergent in the course of use, may be allowed to be flushed down sewer. First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

California Hazardous Waste: Not hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24

Household Use: Household product is safe for disposal down the drain during detergent use or in the trash. Dispose of empty bottle in the trash or recycle where facilities exist.

SECTION XIV - TRANSPORT INFORMATION

Products covered by this MSDS, in their original form, are not regulated for transportation.

Ground Transport (US DOT): Not regulated

Air Transport (IATA): Not regulated

Marine/Water Transport (IMDG): Not regulated

SECTION XV - REGULATORY INFORMATION

United States

All intentionally-added components of this product are listed on the US TSCA Inventory.

This product is not subject to warning labeling under California Proposition 65.

EPA Reg. No.: Not Applicable

This product contains the following SARA 313/302/304/311/312 chemicals:

None

This product contains the following CERCLA chemicals:

Chemical Name	CAS Number	Max Range in Product (%)
Ethanol	64-17-5	5.0%

State Right-to-Know:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

Ingredient	CAS #	Max Level	State				
			IL	MA	NJ	PA	RI
Ethanol	64-17-5	5.0 %	X	X	X	X	X

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance

Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health:	1	4=EXTREME
	Flammability:	1	3=HIGH
	Reactivity:	0	2=MODERATE
			1=SLIGHT
			0=NOT SIGNIFICANT

*N/A. - Not Applicable

*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

Procter&Gamble

Professional®

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name PGP Comet Disinfectant Cleanser with Chlorinol
Product Code 15885959
Version # 05
Revision date 11-01-2010
Manufacturer Address Procter & Gamble Professional
2 P&G Plaza
Cincinnati
Ohio
45202
US
P&G Telephone Number: 1-800-332-7787
Emergency 24-hr Telephone #: CHEMTREC 1-800-424-9300

2. Hazards Identification

Potential health effects

Routes of exposure Inhalation. Ingestion. Skin contact. Eye contact.
Eyes Accidental exposure will cause a mild but transient irritation.
Skin May cause transient irritation. Prolonged or repeated contact may be drying to skin.
Inhalation May be irritating.
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Potential environmental effects Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

3. Composition / Information on Ingredients

Components	CAS #	Percent
CALCIUM CARBONATE	471-34-1	60-100
SODIUM CARBONATE	497-19-8	7-13
CALCIUM HYDROXIDE	1305-62-0	1-5
Sodium Dichloro-s Triazinetrione Dihydrate	51580-86-0	1-5

4. First Aid Measures

First aid procedures

Eye contact After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention if symptoms persist.
Skin contact Wash affected area with mild soap and water. Rinse with plenty of water. Get medical attention if irritation develops and persists.
Inhalation Move to fresh air. Call a physician if symptoms develop or persist.
Ingestion Drink 1 or 2 glasses of water. Do not induce vomiting without advice from poison control center or doctor. Get medical attention if any discomfort continues.

5. Fire Fighting Measures

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Extinguishing media**Suitable extinguishing media**

Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Protection of firefighters**Protective equipment and precautions for firefighters**

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

6. Accidental Release Measures**Personal precautions**

Keep unnecessary personnel away. Wear suitable protective clothing.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Clean-up methods and materials and containment measures

In case of spills, beware of slippery floors and surfaces. Sweep or scoop up and remove. Following product recovery, flush area with water. Minimize dust generation.

7. Handling and Storage**Handling**

Use personal protective equipment as required. Avoid contact with skin. Keep container closed when not in use. Never return spills in original containers for re-use. Keep out of reach of children.

Storage

Store in a cool and well-ventilated place. Keep away from moisture.

8. Exposure Controls / Personal Protection**Occupational exposure limits****US. ACGIH Threshold Limit Values****Components****Type****Value**

CALCIUM HYDROXIDE
(1305-62-0)

TWA

5 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**Components****Type****Value****Form**

CALCIUM CARBONATE
(471-34-1)

PEL

5 mg/m3

Respirable fraction.

CALCIUM HYDROXIDE
(1305-62-0)

PEL

15 mg/m3
5 mg/m3

Total dust.
Respirable fraction.

15 mg/m3

Total dust.

Engineering controls

Provide adequate ventilation.

Personal protective equipment**Eye / face protection**

Not normally needed. If contact is likely, safety glasses with side shields are recommended.

Skin protection

Not normally needed. If prolonged or repeated contact is likely, protective gloves are recommended. Neoprene gloves. Rubber gloves.

Respiratory protection

Not normally needed.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties**Color**

Green.

Odor

Pine

Odor threshold

Not available.

Physical state

Solid.

pH

12.3 (1% solution)

Melting point

Not available.

Freezing point

Not available.

Boiling point

Not available.

Flash point

Not available.

Evaporation rate

Not available.

Vapor pressure

Not available.

Specific gravity	Not available.
Solubility (water)	Moderate
Partition coefficient (n-octanol/water)	Not available
VOC	0 % estimated
Percent volatile	0 % estimated estimated

10. Chemical Stability & Reactivity Information

Chemical stability	This is a stable material.
Conditions to avoid	Avoid contact with acids. and Ammonia.
Hazardous decomposition products	Chlorine gas
Hazardous polymerization	Will not occur.

11. Toxicological Information

Toxicological data

Components	Test Results
CALCIUM HYDROXIDE (1305-62-0)	Acute Oral LD50 Rat: 7340 mg/kg
CALCIUM CARBONATE (471-34-1)	Acute Oral LD50 Mouse: 6450 mg/kg
SODIUM CARBONATE (497-19-8)	Acute Oral LD50 Rat: 6450 mg/kg Acute Inhalation LC50 Guinea pig: 0.8 mg/l 2.00 Hours Acute Inhalation LC50 Mouse: 1.2 mg/l 2.00 Hours Acute Inhalation LC50 Rat: 2.3 mg/l 2.00 Hours Acute Oral LD50 Rat: 4090 mg/kg Acute Other LD50 Mouse: 116.6 mg/kg 30.00 Days Acute Oral LD50 500 mg/kg
Sodium Dichloro-s Triazinetrione Dihydrate (51580-86-0)	

Sensitization	Not available.
Local effects	Irritating to skin. Contact may irritate or burn eyes.
Chronic effects	Hazardous by OSHA criteria.
Skin corrosion/irritation	Not available.

12. Ecological Information

Environmental effects	Based on ecotoxicity and fate data for the individual ingredients in this specific formulation, and for related consumer household cleaning products formulations, this product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment at relevant environmental concentrations. This product is intended for dispersive use and should not be disposed of directly into the environment.
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13. Disposal Considerations

Disposal instructions	This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.
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14. Transport Information

DOT

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	This is an EPA-registered pesticide (Registration No. 3573-51).
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CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

State regulations**ILLRTK**

Contains no Illinois Right To Know toxic substances.

US - Connecticut Hazardous Material Survey: Listed substance

Sodium Dichloro-s Triazinetrione Dihydrate (CAS 51580-86-0) LISTED

US - Massachusetts RTK - Substance: Listed substance

CALCIUM CARBONATE (CAS 471-34-1) LISTED
CALCIUM HYDROXIDE (CAS 1305-62-0) LISTED
Sodium Dichloro-s Triazinetrione Dihydrate (CAS 51580-86-0) LISTED

US - New Jersey RTK - Special Hazard: Listed substance

Contains no New Jersey Right To Know special hazards.

US - New Jersey RTK - Substances: Listed substance

CALCIUM HYDROXIDE (CAS 1305-62-0) LISTED
Sodium Dichloro-s Triazinetrione Dihydrate (CAS 51580-86-0) LISTED

US - Pennsylvania RTK - Hazardous Substances: Listed substance

CALCIUM CARBONATE (CAS 471-34-1) LISTED
CALCIUM HYDROXIDE (CAS 1305-62-0) LISTED
Sodium Dichloro-s Triazinetrione Dihydrate (CAS 51580-86-0) LISTED

US - Rhode Island RTK - Hazardous Substances: Listed substance

CALCIUM CARBONATE (CAS 471-34-1) LISTED
CALCIUM HYDROXIDE (CAS 1305-62-0) LISTED
Sodium Dichloro-s Triazinetrione Dihydrate (CAS 51580-86-0) LISTED

Canadian regulations

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Inventory Status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information**HMIS® ratings**

Health: 2
Flammability: 0
Physical hazard: 0

NFPA ratings

Health: 2
Flammability: 0
Instability: 0
Special hazards:

Disclaimer

This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumes no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.



MATERIAL SAFETY DATA SHEET

CLEAN-UP Washroom
Cleaner-Non Acid RTU

MSDS No: 6100RTU
Date Prepared: 10/09/2003
Date Revised: 10/09/2003

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name/Use: CLEAN-UP Washroom Cleaner-Non Acid RTU
A 1:10 dilution of CLEAN-UP Washroom Cleaner-Non Acid Concentrate

Product Synonyms:

Practical Solutions CLEAN-UP Washroom Cleaner-Non Acid Ready-to-Use
A 1:10 dilution of Practical Solutions CLEAN-UP Washroom Cleaner-Non Acid Concentrate
Single Solution CLEAN-UP Washroom Cleaner-Non Acid Ready-to-Use
A 1:10 dilution of Single Solution CLEAN-UP Washroom Cleaner-Non Acid Concentrate

MANUFACTURER

The Ramsey Company
8310 16th St.
Sturtevant, WI 53177-0902

Ramsey Telephone Number: 800-421-2768
Emergency Telephone (24 hours): 800-228-5635
CHEMTREC (U.S./Can.): 800-424-9300
CHEMTREC (Int'l): +1 703-527-3887

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>INGREDIENT(S)</u>	<u>CAS#</u>	<u>% BY WEIGHT</u>	<u>OSHA PEL/STEL</u>	<u>ACGIH TLV/STEL</u>
Water	7732-18-5	60 - 100	NA	NA
Linear primary alcohol ethoxylate	34398-01-1	0.1 - 1	NA	NA
Tetrasodium ethylenediamine tetraacetate	64-02-8	0.1 - 1	NA	NA
Fresh fragrance	NA	< 0.1	NA	NA
Dye	NA	< 0.1	NA	NA

NA - Not Available

OSHA REGULATORY STATUS: This product is classified as hazardous under OSHA regulations.

WHMIS CLASS: Class D- Division 2B

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Clear, Light Red Liquid . Fresh Odor. May Cause Eye Irritation.

POTENTIAL HEALTH EFFECTS (See Section 11 for Toxicological Information)

PRIMARY ROUTE(S) OF EXPOSURE: ☒ Eye ☒ Skin Contact ☐ Skin Absorption
☒ Inhalation ☒ Ingestion

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: May cause eye irritation. Symptoms may include redness and pain.

SKIN: May cause slight skin irritation. Symptoms may include temporary redness.

INGESTION: May be harmful if swallowed. May cause mouth, throat and stomach burns. Symptoms may include nausea, vomiting, diarrhea, and severe stomach pain.

INHALATION: High concentrations of vapor or mist may cause nose, throat and respiratory tract irritation. Symptoms may include coughing and a burning sensation in the nose and throat.

EFFECTS OF CHRONIC EXPOSURE: Prolonged or repeated contact can cause defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

MEDICAL CONDITIONS AGGRAVATED: May aggravate pre-existing eye, skin and respiratory conditions.

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water while holding eyelids apart. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not put any medication in the victim's eyes unless instructed by a physician. Get immediate medical attention.

SKIN: Flush thoroughly with plenty of water, then wash with soap and water. Remove saturated clothing. Get medical attention if irritation develops or persists. Thoroughly wash (or discard) clothing and shoes before reuse.

INGESTION: Do not induce vomiting. Drink large quantities of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give respiration; if breathing is difficult, give oxygen (by trained personnel only). Get medical attention if symptoms persist.

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: > 93°C (200°F)TCC

FLAMMABLE LIMITS: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS: Normal products of combustion (carbon monoxide and carbon dioxide) and nitrogen oxides.

FIRE AND EXPLOSION HAZARDS: None known.

FIRE FIGHTING INSTRUCTIONS: This product is not flammable. As in any fire, MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear should be worn.

6. ACCIDENTAL RELEASE MEASURES

See Section 8, Exposure Controls/Personal Protection and Section 3, Hazard Identification. Floors may be slippery. Use care to avoid falling. Contain and isolate spill. Keep non-essential personnel from entering spill area. Use mop and absorbent to collect material for proper disposal. Rinse area with water.

7. HANDLING AND STORAGE

HANDLING: Follow label use directions. Do not mix with other chemicals unless instructed by label directions. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Remove contaminated clothing. Wash clothing and equipment before reuse.

STORAGE: Keep container closed when not in use. Store away from incompatible materials. (See Section 10, Stability and Reactivity). Keep away from heat and flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general room ventilation is expected to be adequate.

PERSONAL PROTECTION

EYE: Where eye contact is possible, wear safety glasses with side shields or chemical splash goggles (ANSI Z87.1 approved).

SKIN: Where skin contact is possible, chemical-resistant clothing (e.g., gloves) should be worn.

RESPIRATORY: No respiratory protection is required if ventilation is adequate.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Fresh

APPEARANCE: Clear, Light Red

pH: 11.4

PERCENT VOLATILE BY WEIGHT: 98

VAPOR PRESSURE: Not Determined

VAPOR DENSITY: Not Determined

BOILING POINT: Not Determined

FREEZING/MELTING POINT: Not Determined

SOLUBILITY IN WATER: Complete

EVAPORATION RATE: Not Determined

SPECIFIC GRAVITY: 1.001

VISCOSITY: Water Thin

OCTANOL/WATER PARTITION COEFFICIENT: Not Determined

ODOR THRESHOLD: Not Determined

10. STABILITY AND REACTIVITY

STABILITY (CONDITIONS TO AVOID): Stable.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION: None known.

INCOMPATIBLE MATERIALS: Oxidizers (e.g., bleach) and strong acids (e.g., hydrochloric acid).

11. TOXICOLOGICAL INFORMATION

ACUTE DATA: No data is available for this product. The following data are available for product ingredients:

<u>PRODUCT/INGREDIENT</u>	<u>ORAL LD₅₀ (rat)</u>	<u>DERMAL LD₅₀ (rabbit)</u>	<u>INHALATION LC₅₀ (rat)</u>
Water			
Linear primary alcohol ethoxylate	700 - 1700 mg/kg	>2000 mg/kg	Not Available
Tetrasodium ethylenediamine tetraacetate	3030 mg/kg	>5000 mg/kg	Not Available
Fresh fragrance			
Dye	Not Available	Not Available	Not Available

SENSITIZATION DATA: No data available.

CHRONIC DATA:
No data available.

REPRODUCTIVE/TERATOGENIC DATA: No data available.

CARCINOGENIC/MUTAGENIC DATA: Not listed as carcinogenic by NTP, IARC, or ACGIH or regulated as a carcinogen by OSHA.

SYNERGISTIC MATERIALS: No data available.

12. ECOLOGICAL INFORMATION

This product is made with all biodegradable detergents. No other data available.

13. DISPOSAL CONSIDERATIONS

Disposal of this material should be in accordance with local, state or provincial and federal regulations. The unused product, as manufactured, may be a RCRA hazardous waste in accordance with 40 CFR 261. The product's pH should be verified prior to disposal. According to RCRA, it is the responsibility of the waste generator to ensure proper disposal.

14. TRANSPORT INFORMATION

DOT/TDG HAZARDOUS MATERIAL DESCRIPTION: Not regulated

15. REGULATORY INFORMATION

Not meant to be all-inclusive---selected regulations represented.

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Under 40 CFR 370.2, this product meets the following hazard category: Immediate.

313 REPORTABLE INGREDIENTS: Ingredients in this product are not currently subject to notification.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: None of the ingredients in this product are reportable under CERCLA.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: This product complies with all TSCA inventory requirements.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): Class D-Division 2B, eye irritant. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

HMIS RATING	
HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	-



APPROVED BY: Product Safety & Regulatory

MSDS STATUS New MSDS

The information on this data sheet represents our current data and best opinion as to the proper use in handling of the product under normal foreseeable conditions. Any use of this product which is not in conformance with this data sheet or product label, or which involves using the product in combination with any other product or any other process is the responsibility of the user.

1. Product and Company Identification

Product Name LYSOL® Brand III (Kills 99.9% of Viruses & Bacteria) Disinfectant Spray - All Scents

CAS # Mixture

This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA).

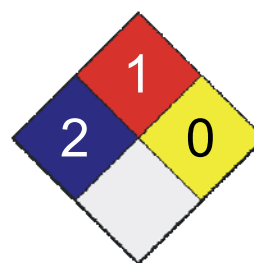
This MSDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.

Product Use Disinfectant

Distributed by Reckitt Benckiser
 Morris Corporate Center IV
 399 Interpace Parkway
 P.O. Box 225
 Parsippany, NJ 07054-0225
 In Case of Emergency: 1-800-338-6167
 Transportation Emergencies: 24 Hour Number:
 North America: CHEMTREC: 1-800-424-9300
 Outside North America: 1-703-527-3887

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 2
Flammability	3
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency overview This product is regulated by the US EPA as a disinfectant.
 PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS
 CAUTION
 Causes moderate eye irritation. Do not spray in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.
 PHYSICAL HAZARDS: FLAMMABLE
 Contents under pressure. Keep away from heat, sparks and open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.
 KEEP OUT OF REACH OF CHILDREN.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation, Ingestion.

Eyes Moderately irritating to the eyes.

Skin Slightly irritating to the skin.

Inhalation None expected during normal conditions of use.
 However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Ingestion May be harmful if swallowed.

Target organs Blood. Liver. Respiratory system. Central nervous system. Heart.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.
 Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

OSHA Regulatory Status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Ethanol	64-17-5	40 - 60
Butane	106-97-8	2.5 - 10
Propane	74-98-6	1 - 2.5
Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium saccharinate	Not Applicable	0 - 0.1

4. First Aid Measures

First aid procedures

Eye contact

If in eyes, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin contact

Get medical attention immediately. In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Inhalation

Move exposed person to fresh air. Get medical attention immediately.

Ingestion

Call medical doctor or poison control center immediately. Wash out mouth with water.

Notes to physician

Treat patient symptomatically.

General advice

Do not puncture or incinerate container. Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.

5. Fire Fighting Measures

Flammable properties

Flammable aerosol by flame projection test.
Aerosol flame extension less than 18 inches (45 cm).
Containers may explode when heated.

NFPA AEROSOL LEVEL: Flammability Rating 1, per NFPA 30B

Extinguishing media

Suitable extinguishing media

Water spray. Dry chemical. Carbon dioxide.

Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.

Protective equipment for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

Hazardous combustion products

May include and are not limited to: Oxides of carbon.

Explosion data

Sensitivity to mechanical impact

Not available

Sensitivity to static discharge

Not available.

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away.
Do not touch or walk through spilled material.
Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Keep people away from and upwind of spill/leak.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.
Advise authorities if product has penetrated drains, sewers or water pipes.

Methods for containment	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite. Use spark-proof tools and explosion-proof equipment.

7. Handling and Storage

Handling	<p>Ensure adequate ventilation.</p> <p>Wear appropriate personal protective equipment when handling this product.</p> <p>Wash hands after handling and before eating.</p> <p>Take prudent precautions to avoid contact with skin, eyes, and clothing. Do not contaminate water, food, or feedstuffs by storage, handling, or by disposal. Read and observe all precautions and instructions on the label.</p> <p>Do not ingest.</p> <p>Avoid breathing vapors or mists of this product.</p> <p>CONTENTS UNDER PRESSURE. DO NOT use in presence of open flame or spark. DO NOT puncture or incinerate container or store at temperatures over 50°C.</p> <p>FLAMMABLE</p> <p>Contents under pressure.</p> <p>Do not puncture or incinerate container.</p>
Storage	<p>Store in original container in areas inaccessible to small children.</p> <p>STORE IN A COOL PLACE AND AWAY FROM DIRECT SUNLIGHT.</p> <p>Keep away from heat, open flames or other sources of ignition.</p> <p>Do not reuse empty container.</p> <p>Do not puncture or incinerate container.</p> <p> NOTE TO PARENTS: Intentional misuse by deliberately concentrating and inhaling aerosol products may be harmful or fatal. Help stop inhalation abuse; for information visit www.inhalant.org.</p> <p> It is a violation of Federal law to use this product in a manner inconsistent with its labeling.</p>

8. Exposure Controls / Personal Protection

Exposure limits	
Ingredient(s)	Exposure Limits
Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium saccharinate	<p>ACGIH-TLV</p> <p>Not established</p> <p>OSHA-PEL</p> <p>Not established</p>
Butane	<p>ACGIH-TLV</p> <p>TWA: 1000 ppm</p> <p>OSHA-PEL</p> <p>Not established</p>
Ethanol	<p>ACGIH-TLV</p> <p>TWA: 1000 ppm</p> <p>STEL: 1000 ppm</p> <p>OSHA-PEL</p> <p>TWA: 1000 ppm</p>
Propane	<p>ACGIH-TLV</p> <p>TWA: 1000 ppm</p> <p>OSHA-PEL</p> <p>TWA: 1000 ppm</p>
Engineering controls	Provide adequate ventilation.

Personal protective equipment

Consult the product label for special protection or precautions that have been identified for using this product under directed consumer use conditions. The following recommendations are given for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure.

Eye / face protection

Avoid contact with eyes. Tightly fitting safety goggles
Emergency responders should wear full eye and face protection.

Hand protection

Not normally required when used as directed. Avoid contact with the skin.
Emergency responders should wear impermeable gloves.

Skin and body protection

As required by employer code.

Respiratory protection

Not normally required if good ventilation is maintained.
Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.
When using do not eat or drink.
Washing with soap and water after use is recommended as good hygienic practice to prevent possible eye irritation from hand contact.

9. Physical and Chemical Properties

Appearance	Misty spray
Color	Clear
Form	Aerosol
Odor	Characteristic
Odor threshold	Not available
Physical state	Gas
pH	10.8 - 11.8
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation rate	Not available
Flash point	78.08 °F (25.6 °C)
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	Not available
Octanol/water coefficient	Not available
Solubility (H ₂ O)	Complete
VOC (Weight %)	Not available
Viscosity	Not available
Bulk density	7.1 - 7.5 lbs/gal
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.

Conditions to avoid	Heat, open flames, static discharge, sparks and other ignition sources. Aerosol containers are unstable at temperatures above 49°C (120.2°F). Do not freeze. Exposure to moisture. Do not mix with other products.
Incompatible materials	Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium saccharinate	Not available
Butane	658 mg/l/4h rat
Ethanol	31623 ppm rat
Propane	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium saccharinate	Not available
Butane	Not available
Ethanol	3450 mg/kg mouse; 7060 mg/kg rat
Propane	Not available

Effects of acute exposure

Eye	Moderately irritating to the eyes.
Skin	Slightly irritating to the skin.
Inhalation	None expected during normal conditions of use. However intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Ingestion	May be harmful if swallowed.
Sensitization	The finished product is not expected to have chronic health effects.
Chronic effects	The finished product is not expected to have chronic health effects.
Carcinogenicity	The finished product is not expected to have chronic health effects.
Mutagenicity	The finished product is not expected to have chronic health effects.
Reproductive effects	The finished product is not expected to have chronic health effects.
Teratogenicity	The finished product is not expected to have chronic health effects.
Name of Toxicologically Synergistic Products	Not available

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Fish - Acute Toxicity Data		
Ethanol	64-17-5	96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through]
Ecotoxicity - Water Flea - Acute Toxicity Data		
Ethanol	64-17-5	48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]
Persistence / degradability	Not available	

Bioaccumulation / accumulation	Not available
Mobility in environmental media	Not available
Environmental effects	Not available
Aquatic toxicity	Not available
Partition coefficient	Not available
Chemical fate information	Not available

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations. Discard in trash or offer for recycling if available.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

UN1950, Aerosols, flammable, Class 2.1, Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

UN1950, Aerosols, flammable, Class 2.1, Limited Quantity

IMDG (Marine Transport)

UN1950, Aerosols, flammable, Class 2.1, Limited Quantity

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Product Registration: Registered with EPA, EPA Reg. No. 777-99

U.S. - CAA (Clean Air Act) - Accidental Release Prevention - Flammable Substances

Butane 106-97-8 10000 lb threshold quantity

Propane 74-98-6 10000 lb threshold quantity

U.S. - CAA (Clean Air Act) - Reactivity Factors for VOCs in Aerosol Coatings

Butane 106-97-8 1.33 G Ozone/g VOC Reactivity Factor

Ethanol 64-17-5 1.69 G Ozone/g VOC Reactivity Factor

Propane 74-98-6 0.56 G Ozone/g VOC Reactivity Factor

U.S. - CAA (Clean Air Act) - SNAP Program Listing of Substitutes for ODSs

Butane 106-97-8 Acceptable substitute for: 6

Propane 74-98-6 Acceptable substitute for: 6, 7

U.S. - CAA (Clean Air Act) - Volatile Organic Compounds (VOCs) in SOCMI

Ethanol 64-17-5 Present

CERCLA (Superfund) reportable quantity

Ammonium hydroxide: 1000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
 Delayed Hazard - Yes
 Fire Hazard - Yes
 Pressure Hazard - Yes
 Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Clean Water Act (CWA) Not available

State regulations

This product is not subject to warning labeling under the California Proposition 65 regulation.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Butane	106-97-8	Present
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U.S. - Massachusetts - Right To Know List

Butane	106-97-8	Present
Ethanol	64-17-5	Teratogen
Propane	74-98-6	Present

U.S. - Minnesota - Hazardous Substance List

Butane	106-97-8	Present
Ethanol	64-17-5	Present
Propane	74-98-6	Simple asphyxiant

U.S. - New Jersey - Right to Know Hazardous Substance List

Butane	106-97-8	sn 0273
Ethanol	64-17-5	sn 0844
Propane	74-98-6	sn 1594

U.S. - Pennsylvania - RTK (Right to Know) List

Butane	106-97-8	Present
Ethanol	64-17-5	Present
Propane	74-98-6	Present

U.S. - Rhode Island - Hazardous Substance List

Butane	106-97-8	Toxic; Flammable
Ethanol	64-17-5	Toxic; Flammable
Propane	74-98-6	Toxic; Flammable

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer

This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Further information

LYSOL® Brand III (Kills 99.9% of Viruses & Bacteria) Disinfectant Spray - Citrus Meadows, 12.5 oz/19 oz - 0175926v1.0

LYSOL® Brand III (Kills 99.9% of Viruses & Bacteria) Disinfectant Spray - Crisp Apple, 12.5 oz/19 oz - 0175927v1.0

LYSOL® Brand III (Kills 99.9% of Viruses & Bacteria) Disinfectant Spray - Early Morning Breeze, 12.5 oz/19 oz - 0175929v1.0

LYSOL® Brand III (Kills 99.9% of Viruses & Bacteria) Disinfectant Spray - for Baby's Room, 12.5 oz/19 oz - 0175932v1.0

LYSOL® Brand III (Kills 99.9% of Viruses & Bacteria) Disinfectant Spray - Jasmine & Rain, 12.5 oz/19 oz - 0175920v1.0

LYSOL® Brand III (Kills 99.9% of Viruses & Bacteria) Disinfectant Spray - Lemon Breeze, 12.5 oz/19 oz - 0175927v1.0

LYSOL® Brand III (Kills 99.9% of Viruses & Bacteria) Disinfectant Spray - Spring Waterfall, 12.5 oz/ 19 oz - 0175918v1.0

LYSOL® Brand III (Kills 99.9% of Viruses & Bacteria) Disinfectant Spray - Summer Breeze, 12.5 oz/ 19 oz - 0175935v1.0

LYSOL® Brand III (Kills 99.9% of Viruses & Bacteria) Disinfectant Spray - Vanilla Blossoms, 12.5 oz/19 oz - 0175943v2.0

LYSOL® Brand III (Kills 99.9% of Viruses & Bacteria) Disinfectant Spray - "To Go" Crisp Linen, 1 oz - 0242193v1.0

Issue date

26-Sept-2013

Effective date

01-Nov-2012

Prepared by

Reckitt Benckiser Regulatory Department 800-333-3899

Other information

For an updated MSDS, please contact the supplier/manufacture listed on the first page of the document.

MATERIAL SAFETY DATA SHEET

1/9/2013

MANUFACTURER OR DISTRIBUTOR: Rich Art Color Co.
202 Pegasus Avenue
P.O. Box 198
Northvale, New Jersey 07647

INFORMATION TELEPHONE NUMBER: 201-767-0009
EMERGENCY TELEPHONE NUMBER: 201-264-7542cel

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: RICH ART LIQUID FRESCO
TEMPERA
PRODUCT SIZES: 7, 14, 22, 59, 237, 473, 946 &
3785 ML
PRODUCT CLASS: TEMPERA (LIQUID)
PRODUCT NUMBER: LIQF2
BRAND NAME: RICH ART LIQUID FRESCO
TEMPERA

SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>PEL/TLV (MG/M#)</u>	<u>Max % Weight</u>	<u>NTP</u>	<u>IARC</u>
None					

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: N/A
VAPOR PRESSURE: N/A
SPECIFIC VAPOR DENSITY (AIR=1): N/A
SOLUBILITY IN WATER: N/A
APPEARANCE AND ODOR:
MELTING POINT: N/A
SPECIFIC GRAVITY: N/A
REACTIVITY IN WATER: NON-REACTIVE

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT (METHOD): N/A
EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE
EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED
FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED
UNUSUAL FIRE & EXPLOSION HAZARDS: NOT COMBUSTIBLE
AUTOIGNITION TEMPERATURE: N/A

SECTION V - PHYSICAL HAZARDS/REACTIVITY

HAZARDOUS POLYMERIZATION PRODUCTS: NONE
STABILITY: STABLE CONDITIONS TO AVOID: NONE
INCOMPATIBILITY (MATERIALS TO AVOID): NONE
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

SECTION VI - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: SEE SECTION II FOR COMPONENT PEL/TLVs
PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, EYE, SKIN

EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: NONE EXPECTED

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: NONE EXPECTED

CARCINOGEN LISTING: NTP: NO IARC: NO OSHA: NO

SEE SECTION II FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT: NONE

FIRST AID MEASURES: NONE REQUIRED. NO ACUTE HEALTH EFFECTS EXPECTED.

SECTION VII - SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: NO SPECIAL PRECAUTIONS REQUIRED.

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: NO SPECIAL SPILL PROCEDURES REQUIRED.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION VIII - PROTECTIVE EQUIPMENT/CONTROL MEASURES

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: NONE REQUIRED

OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): NONE REQUIRED

WORK/HYGIENE PRACTICES: NONE REQUIRED

SECTION IX - ADDITIONAL INFORMATION AND WARNINGS

THIS INFORMATION SHEET IS FOR CONSUMER USE ONLY.

ADDITIONAL INFORMATION AND WARNINGS: NONE REQUIRED

SECTION X - COLOR INFORMATION

THIS MSDS APPLIES TO THE FOLLOWING COLORS WHICH ARE ASSOCIATED WITH HAZARDOUS AND/OR NON-HAZARDOUS INGREDIENTS

Product Color	Hazardous Ingredient
LF-57 PINK	(none)
LF-58 MAROON	(none)
LF-80 LAVENDER	(none)
LFT-30 TROPICAL YELLOW	(none)
LFT-42 TROPICAL ORANGE	(none)
LFT-51 TROPICAL RED	(none)
LFT-62 TROPICAL BLUE	(none)
LFT-72 TROPICAL GREEN	(none)
LFT-81 TROPICAL PINK	(none)

COMPANY: Rich Art Color Co.

1/9/2013

PRODUCT: LIQF2

BRAND NAME: RICH ART LIQUID FRESCO TEMPERA

Larry Cook, Ph.D., DABT

1/9/2013

Material Safety Data Sheet

24 Hour Assistance:

1-847-367-7700

Rust-Oleum Corp.

www.rustoleum.com



1. Identification

Product Name: PTOUCH 2X +SSPR 6PK GLOSS APPLE RED **Revision Date:** 9/3/2014

Product Number: 249124

Product Use/Class: Topcoat/Aerosol

Supplier: Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, IL 60061
USA

Manufacturer: Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, IL 60061
USA

Prepared by: Regulatory Department

2. Hazard Identification

EMERGENCY OVERVIEW: Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Contents Under Pressure. May cause eye, skin, or respiratory tract irritation. KEEP OUT OF REACH OF CHILDREN. Harmful if inhaled. Harmful if swallowed. Causes eye irritation. Use ventilation necessary to keep exposures below recommended exposure limits, if any. Vapor Harmful. Causes Eye, Skin, Nose, and Throat Irritation.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation. Allergic reactions are possible.

EFFECTS OF OVEREXPOSURE - INHALATION: High gas, vapor, mist or dust concentrations may be harmful if inhaled. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. Prolonged or excessive inhalation may cause respiratory tract irritation.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

3. Composition/Information On Ingredients

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Acetone	67-64-1	40.0	500 ppm	750 ppm	1000 ppm	N.E.
Liquefied Petroleum Gas	68476-86-8	30.0	N.E.	N.E.	N.E.	N.E.
Naphtha, Petroleum, Hydrotreated Light	64742-49-0	10.0	200 mg/m3	N.E.	N.E.	N.E.
Xylene	1330-20-7	10.0	100 ppm	150 ppm	100 ppm	N.E.
Barium Sulfate	7727-43-7	5.0	10 mg/m3	N.E.	15 mg/m3 [Total Dust]	N.E.
Solvent Naptha, Light Aromatic	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	25 ppm	N.E.	N.E.	N.E.
Ethylbenzene	100-41-4	5.0	20 ppm	125 ppm	100 ppm	N.E.

4. First-aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

5. Fire-fighting Measures

Flash Point, °F -156 (Calculated)

Extinguishing Media: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLASH POINT IS LESS THAN 20 ° F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can. No unusual fire or explosion hazards noted. Keep containers tightly closed.

SPECIAL FIREFIGHTING PROCEDURES: Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

STORAGE: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials. Store in a dry, well ventilated place. Keep container tightly closed when not in use. Keep away from heat, sparks, flame and sources of ignition. Avoid excess heat.

8. Exposure Controls/Personal Protection

ENGINEERING CONTROLS: Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use gloves to prevent prolonged skin contact. Nitrile or Neoprene gloves may afford adequate skin protection.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

9. Physical and Chemical Properties

Vapor Density	Heavier than Air	Odor:	Solvent Like
Appearance:	Aerosolized Mist	Evaporation Rate:	Faster than Ether
Solubility in Water:	Slight	Freeze Point:	N.D.
Specific Gravity:	0.749	pH:	N.A.
Physical State:	Liquid		

(See section 16 for abbreviation legend)

10. Stability and Reactivity

CONDITIONS TO AVOID: Avoid temperatures above 120 ° F. Avoid contact with strong acid and strong bases. Avoid all possible sources of ignition.

INCOMPATIBILITY: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

HAZARDOUS DECOMPOSITION: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

11. Toxicological Information

<u>Chemical Name</u>	<u>LD50</u>	<u>LC50</u>
Acetone	5800 mg/kg (Rat)	50100 mg/m3 (Rat, 8Hr)
Liquefied Petroleum Gas	N.E.	N.E.
Naphtha, Petroleum, Hydrotreated Light	N.E.	N.E.
Xylene	4300 mg/kg (Rat, Oral)	5000 ppm (Rat, Inhalation, 4Hr)
Barium Sulfate	N.E.	N.E.
Solvent Naptha, Light Aromatic	4700 mg/kg (Rat, Oral)	3400 mg/kg (Rat, Inhalation, 4 hr)
1,2,4-Trimethylbenzene	3280 mg/kg (Oral, Rat)	18,000 mg/m3 (Inhalation, Rat, 4 hr)
Ethylbenzene	3500 mg/kg (Rat, Oral)	N.E.

12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components.

13. Disposal Information

DISPOSAL INFORMATION: Dispose of material in accordance to local, state, and federal regulations and ordinances. Do not allow to enter waterways, wastewater, soil, storm drains or sewer systems.

14. Transport Information

	<u>Domestic (USDOT)</u>	<u>International (IMDG)</u>	<u>Air (IATA)</u>	<u>TDG (Canada)</u>
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint Products in Limited Quantities	Aerosols	Aerosols	Paint Products in Limited Quantities
Hazard Class:	N.A.	2.1	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

15. Regulatory Information**U.S. Federal Regulations:****CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Pressure Hazard, Acute Health Hazard, Chronic Health Hazard

Sara Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
Xylene	1330-20-7
1,2,4-Trimethylbenzene	95-63-6
Ethylbenzene	100-41-4

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

International Regulations:**CANADIAN WHMIS:**

This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

Canadian WHMIS Class: AB5 D2A

16. Other Information**HMIS Ratings:**

Health: 2* **Flammability:** 4 **Physical Hazard:** 0 **Personal Protection:** X

NFPA Ratings:

Health: 2 **Flammability:** 4 **Instability:** 0

VOLATILE ORGANIC COMPOUNDS, g/L: 509

REASON FOR REVISION: Regulatory Update

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

Material Safety Data Sheet

Section 1 General Information

Manufacturer:

Rust-Oleum Corporation

11 Hawthorn Parkway

Vernon Hills, IL 60061

24 Hour Assistance: 1-847-367-7700www.rustoleum.com**Date: April 10, 2009****Product Name: Zinsser PermaWhite® Mold & Mildew-Proof Interior Paint****Gloss Level: Semi-Gloss**

Codes: 02750 02753 02754 02755 02759 02761 02765

Section 2 Hazardous Ingredients

<u>Hazardous Component</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Limestone	1317-65-3	15 mg/m ³ * 5 mg/m ³ **	10 mg/m ³
Titanium Dioxide	13463-67-7	15 mg/m ³ *	10 mg/m ³
Zinc Oxide	1314-13-2	15 mg/m ³ * (5 mg/m ³ **)	2 mg/m ³ (10 mg/m ³ * STEL)

* Total Dust

** Respirable Dust Fraction

Section 3 Hazard Identification

Product Overview: This material is a wall paint. It is a stable, non-flammable, white flowable liquid with a flashpoint above 200° Fahrenheit.

Primary Routes of Exposure:

Eye Contact

Skin Contact

Inhalation

Potential Acute Health Effects:**Eye:** May cause eye irritation.

Skin: Prolonged contact may cause skin irritation. Absorption through skin contact is not considered a significant route of exposure.

Ingestion: Although ingestion not considered a significant route of exposure, Gastrointestinal irritation and nausea may occur if swallowed.

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

Inhalation: Although inhalation is not considered a significant route of exposure, high vapor concentrations may cause respiratory irritation.

Potential Chronic Health Effects: None known.

(See also Sections 4, 8, and 11 for related information)

Section 4 First Aid Measures

Eye contact: Flush eye with water for 15 minutes. Get medical attention.

Skin contact: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion: If swallowed, call a physician or poison control center.

Inhalation: No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of vapor, remove victim to fresh air and seek medical attention if cough or other symptoms develop.

Section 5 Fire Fighting Measures

The liquid material will not burn. However, the dried paint film may burn in a fire.

Flash Point (method): >200° F.

Extinguishing Media: Use water spray, foam, or carbon dioxide when fighting fires involving this material.

Protection of Firefighters: As in any fire, wear self-contained breathing apparatus in pressure demand mode and full protective gear.

Section 6 Accidental Release Measures

Clean Up Methods: Keep unnecessary people away. Dike and contain spill with inert material (sand, earth, etc.). Transfer liquid to containers for recovery or disposal, or absorb with absorbent materials and place into containers for disposal. Keep spill out of sewer and open bodies of water. Floors may be slippery; care should be exercised to avoid falls during clean up operations.

(See also Section 8 for information on Exposure Controls and Personal Protective Equipment)

Section 7 Handling and Storage

Handling: Avoid contact with eyes, skin, and clothing.

Storage: Keep from freezing. Keep container closed when not in use.

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

Section 8 Exposure Controls / Personal Protection

Engineering Controls: If exposure conditions warrant, use mechanical local exhaust ventilation or general dilution ventilation to reduce vapor concentrations.

Personal Protective Equipment (PPE):

Eye Protection: Wear safety glasses or face shield to prevent eye and face contact.

Skin Protection: Wear gloves to prevent prolonged skin contact.

Respiratory Protection: None required under normal, intended use conditions. If vapor exposure causes discomfort and in areas of poor ventilation wear NIOSH approved respirator.

Protective Clothing: For brief contact, no special precautions other than clean body-covering clothing should be needed. When prolonged or frequent repeated contact with the material could occur, use protective clothing that is impervious to this material (such as Tyvek®).

General Hygiene Practices: Wash thoroughly after handling. Prevent Eye contact. Avoid prolonged skin or inhalation contact.

Section 9 Physical Data

Appearance:	White emulsion.	Boiling Point:	N/D (est. >200 ° F)
Odor:	Slight ammonia like	Freezing Point:	N/D (est. 32 ° F)
Physical State:	Liquid.	Specific Gravity:	1.3 (water = 1).
pH:	9.5	Viscosity:	1600 – 4000 cps.
Soluble in Water:	Yes.		

Section 10 Stability and Reactivity

Stability:	Stable. Not reactive.
Hazardous Polymerization:	Will not occur.
Hazardous Decomposition Products:	None known.
Hazardous Conditions to Avoid:	None known.
Incompatibility:	None known.

Section 11 Toxicological Information

N/A: Not Applicable	N/D: Not Determined	N/E: Not Established	N/R: Not Required	Est.: Estimated
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Carcinogenicity: The following ingredients are present at greater than 0.1% and are classified by IARC, NTP, or OSHA as carcinogenic:

<u>Ingredient</u>	<u>CAS #</u>	<u>IARTC</u>	<u>NTP</u>	<u>OSHA</u>
None	N/A	N/A	N/A	N/A

Section 12 Ecological Information

Chemical Fate and Effects: No data available.

Section 13 Disposal Considerations

Recommended Waste Disposal Method: This material is not considered hazardous waste under federal hazardous waste regulations (40 CFR 261). However, state and local requirements for waste disposal may be more restrictive or otherwise differ from federal regulations. Chemical additions, processing or otherwise altering this material may render the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Consult all applicable federal, state, and local regulations regarding the proper disposal of this material.

Section 14 Transportation Information

Not regulated by USDOT

Section 15 Regulatory Information

CERCLA:

The Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification to the National Response Center for releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4 (for CERCLA 102).

Components present in this product at a level which could require reporting under the statute are:

<u>Chemical Name</u>	<u>CAS#</u>	<u>Maximum Concentration (Wt. %)</u>
None	N/A	N/A

SARA Title III, section 311/312:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

<u>Chemical Name</u>	<u>CAS#</u>	<u>Maximum Concentration (Wt. %)</u>
None	N/A	N/A

SARA Title III, section 313:

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313).

N/A: Not Applicable N/D: Not Determined N/E: Not Established N/R: Not Required Est.: Estimated

Components present in this product at a level which could require reporting under the statute are:

<u>Chemical Name</u>	<u>CAS#</u>	<u>Maximum Concentration (Wt. %)</u>
None	N/A	N/A

TSCA:

The components of this mixture are listed in the Toxic Substance Control Act Inventory of Chemical Substances. This product does not contain any chemicals that require export notification under Section 12(b) of the TSCA regulation.

Section 16 Other Information

Legend:	N/A: Not Applicable	N/D: Not Determined
	N/E: Not Established	N/R: Not Required
	STEL: Short Term Exposure Limit	C: Ceiling Limit
	PPM: Parts Per Million	PPB: Parts Per Billion
	PEL: Permissible Exposure Limit	TLV: Threshold Limit Value
	TWA: Time Weighted Average	Mg/M ³ : Milligrams per cubic Meter
	> Greater Than	< Less Than
	Mppcf: Million particles per cubic foot of air	
	ACGIH: American Conference of Governmental Industrial Hygienists	
	CERCLA: Comprehensive Environmental Response Compensation and Liability Act	
	OSHA: Occupational Safety and Health Administration (US Dept. of Labor)	
	RCRA: Resource Conservation and Recovery Act	
	SARA: Superfund Amendment and Reauthorization Act	
	TSCA: Toxic Substance Control Act	

Prepared By: Rust-Oleum Regulatory Compliance Dept.
173 Belmont Drive Somerset, NJ 08875 (732) 469-8100

Disclaimer: Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials and make no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and data and to comply with all applicable international, federal, state, and local laws and regulations.

N/A: Not Applicable	N/D: Not Determined	N/E: Not Established	N/R: Not Required	Est.: Estimated
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MATERIAL SAFETY DATA SHEET

(Required under OSHA's Hazard Communication Standard 29 CFR 1910.1200)

(XLP12/16/25/36/50)

Page 1 of 2

IDENTITY (As Used on Label and List)

Cray-Pas, Expressionist 12/16/25/36/50 PC SET (XLP12/16/25/36/50) : 12/16/25/36/48 Colors , Open stock colors
[XLP12, XLP12(SA), XLP16, XLP25, XLP36, XLP50]

Section I

Manufacturer's Name: Sakura Color Products Corporation	Telephone Number: +81 (0)6 - 6910 - 8824 (Japan)
Address: 1-6-20, Morinomiya Chuo, Chuo-ku, Osaka, 540-8508 Japan	FAX Number: +81 (0)6 - 6910 - 8834 (Japan)
Published Date: September 16, 2011	Publisher: Takahiro Shirai

Section II - Hazardous Ingredients / Identity Information

Hazardous Components	CAS No.	WT %	OSHA PEL	ACGIH TLV
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This product is approved by ACMI (The Art & Creative Material Institute, Inc.), and carries the "AP" seal of non-toxic approval in USA.

Section III - Physical / Chemical Characteristics

Boiling Point:	N.D.	Specific Gravity: (H2O = 1 at 25°C)	1<
Vapor Pressure: (mmHg)	N.D.	Melting Point:	about 70°C
Vapor Density: (Air = 1)	N.D.	Evaporation Rate: (Butyl Acetate = 1)	N.D.

Solubility in Water

Non solubility

Appearance and Odor

Stick, Waxy odor

Section IV -Fire and Explosion Hazard Data

Flash Point (Method Uses): N.D.	Flammable Limits: LEL: N.D. UEL: N.D.
------------------------------------	--

Extinguish Media:

In case of fire, use water spray, foam or dry chemical powder.

Special Fire Fighting Procedures:

No special mention

Unusual Fire and Explosion Hazards:

Toxic gases (carbon monoxide, nitrogen oxides and sulfur oxide) will form upon combustion.

N.A.: Not Applicable

N.D.: Not Determined

Section V - Reactivity Data

Stability	Unstable		Condition to avoid:
	Stable	●	
Incompatibility (Materials to avoid):			
Hazardous Decomposition or Byproducts:			
Hazardous Polymerization	May Occur		Condition to avoid:
	May not Occur	●	

Section VI - Health Hazard Data

Section 9: Health Hazards Data						
Route(s) of Entry:		Inhalation?:		Yes	Skin?:	Yes
Health Hazards (Acute and Chronic):				Ingestion?: Unknown		
Carcinogenic:						
NTP? :		None	IARC Monographs? :		None	OSHA Regulated? :
Signs and Symptoms of Exposure:						
Not applicable in normal use.						
Medical Conditions Generally Aggravated by Exposure:						
Unknown						
Emergency and First Aid Procedure:						

Rout of Entry	Emergency procedures	Seek medical advice
Inhalation	Not applicable	<input type="checkbox"/>
Eyes	Gently rinse the affected eyes with clean water for at least 15 minutes.	<input checked="" type="checkbox"/>
Skin	Rinse with running water and soap.	<input type="checkbox"/>
Ingestion	If the victim stops breathing, wipe away any remaining material in the mouth and clear the airway and administer artificial respiration.	<input checked="" type="checkbox"/>

Section VII - Precautions for Safe Handling and Use

Steps to be taken in Case Material is Released or Spilled.	
Sweep up, place in a bag and hold for waste disposal.	
In the case of stuck to the skin, rinse with running water and soap.	
Waste Disposal Method:	
Follow all regulations in your country.	
Precautions to be taken in Handling and Storing:	
Keep away high temperature or direct sunlight.	
Other Precautions:	
Keep away a strong acid.	

Section VIII - Control Measures

Respiratory Protection (Specify Type):			
Not necessary			
Ventilation	Local Exhaust:	Special:	
	Not necessary	Not necessary	
	Mechanical (General):	Other:	
	Not necessary	Not necessary	
Protective Gloves:		Eye Protection:	
Not necessary		Not necessary	
Other Protective Clothing or Equipment:			
Not necessary			
Work / Hygienic Practices:			
In the case of stuck to the skin, rinse with running water and soap.			

This information herein is given good faith, but no warranty, expressed or implied is made.

BRAND NAME(S): Cray-Pas Expressionist (XLP)

TOTAL COLORS: 49

<u>Color No.</u> (suffix # after XLP-)	<u>Color Name</u>
00	Extender
105	Yellow Orange
107	Salmon Pink
110	Raw Sienna
112	Burnt Sienna
117	Sepia
12	Brown
120	Dark Pink
122	Dark Rose
124	Light Purple
125	Pale Blue
128	Pale Green
129	Turquoise Green
131	Blue Green
134	Olive
144	Dark Gray
15	Yellow Ochre
17	Vandyke Brown
18	Vermilion
19	Red
2	Cad. Lemon Hue
20	Pink
22	Crimson
23	Violet
234	Olive Green
24	Purple
25	Cerulean Blue
26	Emerald Green
27	Perm.Yellow Green
29	Middle Green
3	Yellow
30	Deep Green
31	Viridian Hue
36	Blue
38	Ultramarine
4	Deep Yellow
43	Prussian Blue
44	Gray
46	Green Gray
47	Raw Umber
48	Rose Gray
49	Ivory Black
5	Orange
50	Titanium White
51	Gold
53	Silver
6	Scarlet
7	Light Orange
9	Naples Yellow

00704-XXXX

Material Safety Data Sheet

May be used to comply with

OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration

(Non-Mandatory Form)

Form Approved

OMB No. 1218-0072

IDENTITY (As Used on Label and List)
SARGENT ACRYLIC GLITTER GLAZE

Note: Blank spaces are not permitted. If any
item is not applicable, or no information is
available, the space must be marked to indicate
that.

Section I

Manufacturer's Name Sargent Art, Inc.	Emergency Telephone Number 570-454-3596
Address (Number, Street, City, State, and ZIP Code) 100 E Diamond Avenue Hazleton PA 18201	Telephone Number for Information 570-454-3596 Date Prepared 09-21-2011 Signature of Preparer (optional)

Section II - Hazard Ingredients/Identity Information

Hazardous Components (Specific Chemical
Identity; Common Name(s))

ALL AP PRODUCTS ARE CERTIFIED BY A NATIONAL RECOGNIZED AUTHOR-
ITY ON TOXICOLOGY ASSOCIATED WITH A LEADING UNIVERSITY TO CONTAIN
NO KNOWN TOXIC MATERIALS IN SUFFI CIENT QUANTITIES TO BE
INJURIOUS TO THE HUMAN BODY EVEN IF INGESTED.

CONFORMS TO ASTM-D 4236.

Section III - Physical/Chemical Characteristics

Boiling Point NOT APPLICABLE	Specific Gravity (H ₂ O = 1) N/A
Vapor Pressure (mm Hg.) N/A	Me
Vapor Density (AIR = 1) N/A	Itting Point N/A
	Evaporation Rate (Butyl Acetate = 1) N/A
Solubility in Water	Water Soluable - Water Dispersible
Appearance and Odor	White, Milky. Mild, Sweet

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits LEL NONE	UEL NONE
Extinguishing Media Special Fire Fighting Procedures	CARBON DIOXIDE, WATER, FOAM SELF-CONTAINED BREATHING APPARATUS	
Unusual Fire and Explosion Hazards	NONE	

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid
	Stable	X None Known
Incompatibility (Materials to Avoid)	Strong	Strong oxidizers and acids

Hazardous Decomposition or Byproducts

Hazardous Polymerization	May Occur Will Not Occur	X	Conditions to Avoid None Known
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Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? Possible	Skin? N/A	Ingestion? Possible
Health Hazards (Acute and Chronic)			
This product is certified to contain no toxic or injurious to humans or to cause		materials in sufficient quantities to be acute or chronic health problems.	
Carcinogenicity:	NTP? None	IARC Monographs? N/A	OSHA Regulated? No
Signs and Symptoms of Exposure	None Known		
Medical Conditions Generally Aggravated by Exposure	None Known		
Emergency and First Aid Procedures	If ingested, do not induce vomiting, call physician.		

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled	Sweep into container and dispose of according to local regulations.
Waste Disposal Method	In accordance with local regulations.
Precautions to Be taken in Handling and Storing	Keep in cool, dry area.
Other Precautions	None Known

Section VIII - Control Measures

Section VIII - Control Measures				
Respiratory Protection (<i>Specify Type</i>)		Not Required.		
Ventilation	Local Exhaust	Not Required	Special	None
Mechanical (General)		Not Required	Other	None
Protective Gloves		Not Required	Eye Protection	Not Required
Other Protective Clothing or Equipment		Not Required		
Work/Hygienic Practices		Clean, safe work practices		



SAFETY DATA SHEET

SARGENT METALLIC TEMPERA
Issue date: 10/03/2012

SDS ID: 00031012
Revision Date: 09/20/2013

*** Section 1 – PRODUCT AND COMPANY IDENTIFICATION ***

Product Name: SARGENT METALLIC TEMPERA

SARGENT ART, INC

Phone: 1-800-424-3596

100 East Diamond Ave.
Hazleton, PA 18201
www.sargentart.com

Health Emergency – Call local Poison Control Center

Synonyms: 680 Series; 8oz Clear Bottle (Pack of 6).
8oz. & 16oz. opaque bottles (Pack of 6).

Product Codes: 22-50xx; 22-5099; 22-53mm; 22-5306; 22-54mm; 22-5406.

Product Use: Arts and Crafts

*** Section 2 – HAZARD(S) IDENTIFICATION ***

EMERGENCY OVERVIEW

Color: various colors

Physical Form: liquid

POTENTIAL HEALTH EFFECTS

Inhalation: none

Skin Contact: none

Eye Contact: none

Ingestion: none

*** Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS ***

CAS	Component	Percent	Symbol	Risk Phrase(s)
Not Available	Product has been certified as non-toxic by the US Board Certifies Toxicologist and Conforms to ASTM D-4236 standard practice for Labeling Art Materials for acute and chronic adverse health hazards.	100	---	---

*** Section 4 – FIRST AID MEASURES ***

Inhalation

It is unlikely that emergency treatment will be required. Remove from exposure. Get medical attention, if needed.

Skin

It is unlikely that emergency treatment will be required. If adverse effects occur, wash with soap or mild detergent and large amounts of water. Get medical attention, if needed.

Eyes



SAFETY DATA SHEET

SARGENT METALLIC TEMPERA
Issue date: 10/03/2012

SDS ID: 00031012
Revision Date: 09/20/2013

It is unlikely that emergency treatment will be required. Wash with large amounts of water or normal saline until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.

Ingestion

Rinse mouth thoroughly with water. Get medical attention if any discomfort occurs.

***** Section 5 – FIRE FIGHTING MEASURES *****

See Section 9 for Flammability Properties

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Flammable Properties

Slight fire hazard.

Extinguishing Media

Regular dry chemical, carbon dioxide, water, regular foam

Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.

***** Section 6 – ACCIDENTAL RELEASE MEASURES *****

Occupational spill/release

Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

***** Section 7 – HANDLING AND STORAGE *****

Handling Procedures

Provide adequate ventilation. Wear appropriate protection equipment. Avoid breathing mist or vapor. Avoid contact with eyes and prolonged skin contact. Do not taste or swallow. Keep the workplace clean. Observe good industrial hygiene practices.

Storage Procedures

Store in a well-ventilated place. Store in closed original container at room temperature.

***** Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION *****

Component Exposure Limits

ACGIH and EU have not developed exposure limits for any of this product's components.

Ventilation

Based on available information, additional ventilation is not required.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face

Eye protection not required under normal conditions.

Protective Clothing

Protective clothing is not required under normal conditions.

Glove Recommendations

Protective gloves are not required under normal conditions.

Respiratory Protection



SAFETY DATA SHEET

SARGENT METALLIC TEMPERA
Issue date: 10/03/2012

SDS ID: 00031012
Revision Date: 09/20/2013

No respirator is required under normal conditions of use.
Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

*** Section 9 – PHYSICAL AND CHEMICAL PROPERTIES ***

Appearance:	Liquid	Flash Point:	Not available
Physical State:	Liquid	Flammability:	Not available
Physical Form:	Liquid	Vapor Pressure:	Not available
Color:	Assorted colors	Vapor Density (air=1):	Not available
Odor:	Odorless	Evaporation Rate:	Not available
Odor Threshold:	Not available	Specific Gravity:	1.13 – 1.18
pH:	<=9.5	Density:	9.2 – 9.85 Lbs/Gal
Melting Point:	Not available	Water Solubility:	Soluble
Freezing Point:	Not available	Coeff.Water/Oil Dist:	Not available
Boiling Point:	Not available	Volatility:	Not available
Viscosity:	12000 – 45000 cP		

*** Section 10 – STABILITY AND REACTIVITY ***

Chemical Stability

Stable at normal temperatures and pressure.

Conditions to Avoid

None reported.

Materials to Avoid

Oxidizing materials.

Decomposition Products

Oxides of carbon.

Possibility of Hazardous Reactions

Will not polymerize.

*** Section 11 – TOXICOLOGICAL INFORMATION ***

Component Analysis – LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

RTECS Acute Toxicity (selected)

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, or DFG.

RTECS Irritation

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

*** Section 12 – ECOLOGICAL INFORMATION ***

Component Analysis – Aquatic Toxicity



SAFETY DATA SHEET

SARGENT METALLIC TEMPERA
Issue date: 10/03/2012

SDS ID: 00031012
Revision Date: 09/20/2013

No LOLI ecotoxicity data is available for this product's components.

*** Section 13 – DISPOSAL CONSIDERATION ***

Disposal Methods

Dispose in accordance with all applicable regulations.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

*** Section 14 – TRANSPORT INFORMATION ***

US DOT Information:	Not Regulated.
TDG Information:	Not Regulated.
ADR Information:	Not Regulated.
RID Information:	Not Regulated.
IATA Information:	Not Regulated.
ICAO Information:	Not Regulated.
IMDG Information:	Not Regulated.

*** Section 15 – REGULATORY INFORMATION ***

U.S. Federal Regulations

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No **Chronic Health:** No **Fire:** No **Pressure:** No **Reactive:** No

U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

Canada

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS CLASSIFICATION: Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

Component Analysis – Inventory

No information is available.

*** Section 16 – OTHER INFORMATION ***

Allergens:

This product do not contain common allergens such as latex, eggs, milk, wheat, gluten, soy, sunflower or other seeds, tree nuts, and peanuts.



SAFETY DATA SHEET

SARGENT METALLIC TEMPERA
Issue date: 10/03/2012

SDS ID: 00031012
Revision Date: 09/20/2013

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR – European Road Transport; AU – Australia; BOD – Biochemical Oxygen Demand; C – Celsius; CA – Canada; CAS – Chemical Abstracts Service; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; CN – China; CPR – Controlled Products Regulations; DFG – Deutsche Forschungsgemeinschaft; DOT – Department of Transportation; DSL – Domestic Substances List; EEC – European Economic Community; EINECS – European Inventory of Existing Commercial Chemical Substances; EPA – Environmental Protection Agency; EU – European Union; F – Fahrenheit; IARC – International Agency for Research on Cancer; IATA – International Air Transport Association; ICAO – International Civil Agency Organization; IDL – Ingredient Disclosure List; IDLH – Immediately Dangerous to Life and Health; IMDG – International Maritime Dangerous Goods; JP – Japan; Kow – Octanol/water partition coefficient; KR – Korea; LEL – Lower Explosive Limit; LOLI – List Of Lists – ChemADVIUSOR's Regulatory Database; MAK – Maximum Concentration Value in the Workplace; MEL – Maximum Exposure Limits; NFPA – National Fire Protection Agency; NIOSH – National Institute for Occupational Safety and Health; NJTSR – New Jersey Trade Secret Registry; NTP – National Toxicology Program; NZ – New Zealand; OSHA – Occupational Safety and Health Administration; PH – Philippines; RCRA – Resource Conservation and Recovery Act; RID – European Rail Transport; RTECS – Registry of Toxic Effects of Chemical Substances; SARA – Superfund Amendments and Reauthorization Act; STEL – Short-term Exposure Limit; TDG – Transportation of Dangerous Goods; TSCA – Toxic Substances Control Act; TWA – Time Weighted Average; UEL – Upper Explosive Limit; US – United States.

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.



SAFETY DATA SHEET

VELU TEMP WATER BASED PAINT
Issue date: 10/10/2012

SDS ID: 00101012
Revision Date: 09/20/2013

*** Section 1 – PRODUCT AND COMPANY IDENTIFICATION ***

Product Name: VALU TEMP WATER BASED PAINT

SARGENT ART, INC

Phone: 1-800-424-3596

100 East Diamond Ave.
Hazleton, PA 18201
www.sargentart.com

Health Emergency – Call local Poison Control Center

Synonyms: 800 Series; 8oz ValuTemp; 16oz ValuTemp; 32oz ValuTemp; 128oz. ValuTemp.

Product Codes: 22-83xx; 22-84xx; 22-85xx; 22-86xx.

Product Use: Arts and Crafts

*** Section 2 – HAZARD(S) IDENTIFICATION ***

EMERGENCY OVERVIEW

Color: various colors

Physical Form: liquid

POTENTIAL HEALTH EFFECTS

Inhalation: none

Skin Contact: none

Eye Contact: none

Ingestion: none

*** Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS ***

CAS	Component	Percent	Symbol	Risk Phrase(s)
Not Available	Product has been certified as non-toxic by the US Board Certifies Toxicologist and Conforms to ASTM D-4236 standard practice for Labeling Art Materials for acute and chronic adverse health hazards.	100	---	---

*** Section 4 – FIRST AID MEASURES ***

Inhalation

It is unlikely that emergency treatment will be required. Remove from exposure. Get medical attention, if needed.

Skin

It is unlikely that emergency treatment will be required. If adverse effects occur, wash with soap or mild detergent and large amounts of water. Get medical attention, if needed.

Eyes

It is unlikely that emergency treatment will be required. Wash with large amounts of water or normal saline until no evidence of chemical remains (at least 15-20 minutes). Get medical attention immediately.



SAFETY DATA SHEET

VELU TEMP WATER BASED PAINT
Issue date: 10/10/2012

SDS ID: 00101012
Revision Date: 09/20/2013

Ingestion

Rinse mouth thoroughly with water. Get medical attention if any discomfort occurs.

*** Section 5 – FIRE FIGHTING MEASURES ***

See Section 9 for Flammability Properties

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Flammable Properties

Slight fire hazard.

Extinguishing Media

Regular dry chemical, carbon dioxide, water, regular foam

Fire Fighting Measures

Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products.

*** Section 6 – ACCIDENTAL RELEASE MEASURES ***

Occupational spill/release

Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

*** Section 7 – HANDLING AND STORAGE ***

Handling Procedures

Provide adequate ventilation. Wear appropriate protection equipment. Avoid breathing mist or vapor. Avoid contact with eyes and prolonged skin contact. Do not taste or swallow. Keep the workplace clean. Observe good industrial hygiene practices.

Storage Procedures

Store in a well-ventilated place. Store in closed original container at room temperature.

*** Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION ***

Component Exposure Limits

ACGIH and EU have not developed exposure limits for any of this product's components.

Ventilation

Based on available information, additional ventilation is not required.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face

Eye protection not required under normal conditions.

Protective Clothing

Protective clothing is not required under normal conditions.

Glove Recommendations

Protective gloves are not required under normal conditions.

Respiratory Protection

No respirator is required under normal conditions of use.

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.



SAFETY DATA SHEET

VELU TEMP WATER BASED PAINT
Issue date: 10/10/2012

SDS ID: 00101012
Revision Date: 09/20/2013

*** Section 9 – PHYSICAL AND CHEMICAL PROPERTIES ***

Appearance:	Liquid	Flash Point:	Not available
Physical State:	Liquid	Flammability:	Not available
Physical Form:	Liquid	Vapor Pressure:	Not available
Color:	Assorted colors	Vapor Density (air=1):	Not available
Odor:	Odorless	Evaporation Rate:	Not available
Odor Threshold:	Not available	Specific Gravity:	1.13 – 1.18
pH:	<=9.5	Density:	9.2 – 9.85 Lbs/Gal
Melting Point:	Not available	Water Solubility:	Soluble
Freezing Point:	Not available	Coeff. Water/Oil Dist:	Not available
Boiling Point:	Not available	Volatility:	Not available
Viscosity:	12000 – 45000 cP		

*** Section 10 – STABILITY AND REACTIVITY ***

Chemical Stability

Stable at normal temperatures and pressure.

Conditions to Avoid

None reported.

Materials to Avoid

Oxidizing materials.

Decomposition Products

Oxides of carbon.

Possibility of Hazardous Reactions

Will not polymerize.

*** Section 11 – TOXICOLOGICAL INFORMATION ***

Component Analysis – LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

RTECS Acute Toxicity (selected)

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, or DFG.

RTECS Irritation

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

*** Section 12 – ECOLOGICAL INFORMATION ***

Component Analysis – Aquatic Toxicity

No LOLI ecotoxicity data is available for this product's components.



SAFETY DATA SHEET

VELU TEMP WATER BASED PAINT
Issue date: 10/10/2012

SDS ID: 00101012
Revision Date: 09/20/2013

*** Section 13 – DISPOSAL CONSIDERATION ***

Disposal Methods

Dispose in accordance with all applicable regulations.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

*** Section 14 – TRANSPORT INFORMATION ***

US DOT Information:	Not Regulated.
TDG Information:	Not Regulated.
ADR Information:	Not Regulated.
RID Information:	Not Regulated.
IATA Information:	Not Regulated.
ICAO Information:	Not Regulated.
IMDG Information:	Not Regulated.

*** Section 15 – REGULATORY INFORMATION ***

U.S. Federal Regulations

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C)

Acute Health: No Chronic Health: No Fire: No Pressure: No Reactive: No

U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

Canada

This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS CLASSIFICATION: Not a Controlled Product under Canada's Workplace Hazardous Material Information System.

Component Analysis – Inventory

No information is available.

*** Section 16 – OTHER INFORMATION ***

Allergens:

This product do not contain common allergens such as latex, eggs, milk, wheat, gluten, soy, sunflower or other seeds, tree nuts, and peanuts.

Key / Legend



SAFETY DATA SHEET

VELU TEMP WATER BASED PAINT

Issue date: 10/10/2012

SDS ID: 00101012

Revision Date: 09/20/2013

ACGIH - American Conference of Governmental Industrial Hygienists; ADR – European Road Transport; AU – Australia; BOD – Biochemical Oxygen Demand; C – Celsius; CA – Canada; CAS – Chemical Abstracts Service; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; CN – China; CPR – Controlled Products Regulations; DFG – Deutsche Forschungsgemeinschaft; DOT – Department of Transportation; DSL – Domestic Substances List; EEC – European Economic Community; EINECS – European Inventory of Existing Commercial Chemical Substances; EPA – Environmental Protection Agency; EU – European Union; F – Fahrenheit; IARC – International Agency for Research on Cancer; IATA – International Air Transport Association; ICAO – International Civil Agency Organization; IDL – Ingredient Disclosure List; IDLH – Immediately Dangerous to Life and Health; IMDG – International Maritime Dangerous Goods; JP – Japan; Kow – Octanol/water partition coefficient; KR – Korea; LEL – Lower Explosive Limit; LOLI – List Of Lists – ChemADVIUSOR's Regulatory Database; MAK – Maximum Concentration Value in the Workplace; MEL – Maximum Exposure Limits; NFPA – National Fire Protection Agency; NIOSH – National Institute for Occupational Safety and Health; NJTSR – New Jersey Trade Secret Registry; NTP – National Toxicology Program; NZ – New Zealand; OSHA – Occupational Safety and Health Administration; PH – Philippines; RCRA – Resource Conservation and Recovery Act; RID – European Rail Transport; RTECS – Registry of Toxic Effects of Chemical Substances; SARA – Superfund Amendments and Reauthorization Act; STEL – Short-term Exposure Limit; TDG – Transportation of Dangerous Goods; TSCA – Toxic Substances Control Act; TWA – Time Weighted Average; UEL – Upper Explosive Limit; US – United States.

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

Sax True Flow[®] Ceramic Glazes

SECTION 1: COMPANY & PRODUCT IDENTIFICATION

Prepared:	January 1, 2011
Supersedes:	October 1, 2008
Manufacturer:	Coloramics, LLC (D.B.A. Mayco Colors)
	4077 Weaver Court South
	Hilliard, Ohio 43026
	United States of America
	(614) 876-1171

IN CASE OF EMERGENCY PLEASE CONTACT YOUR REGIONAL POISON CONTROL CENTER

Product Identification: Ceramic Glazes

Product Usage: Glazing of ceramic ware

Product Lines Covered by this Safety Data Sheet:

Sax True Flow [®] Colorburst Glazes	All Products
Sax True Flow [®] Crystal Magic Glazes	All Products
Sax True Flow [®] Gloss Glazes	All Products

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS	% of Formula (Low to High)
Silica (Quartz)	14808-60-7	1% - 3%
Calcium Carbonate	471-34-1	0% - 3%
Frit (lead free)	65997-18-4	21% - 55%

Various Pigments	Confidential	Varies
Kaolin/Clay	1332-58-7	2% - 7%
Zinc Oxide	1314-13-2	0% - 1%
Carboxymethylcellulose	9004-32-4	0% - 1½%
Nepheline Syenite	37244-96-5	0% - 13%
Zirconium Silicate (Zr Si O₄)	10101-57-7	0% - 7%
Water	7732-18-5	Varies

SECTION 3: HAZARDS IDENTIFICATION

Crystalline silica dust will be present when using dry mix products and may be present if unfired, dried glaze is excessively handled and allowed to create dust.

Mists from spraying may contain crystalline silica.

Route(s) of Entry: Inhalation, Ingestion; absorption through the skin is negligible.

Health Hazards (acute and chronic): Prolonged inhalation of silica, in excess of TLV, over an extended period of time may result in injury to the lungs.

SECTION 4: FIRST AID MEASURES

- **If inhaled:** May cause irritation; remove from exposure
- **If on skin:** May cause irritation; wash skin with soap and water
- **If in eyes:** May cause irritation; flush eyes with large quantities of water for at least 15 minutes. If irritation persists after washing, contact a physician.
- **If swallowed:** Contact a physician.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media	None
Special Hazards Arising From Chemical Fire	None
Special Protective Equipment and Precautions for Fire Fighters:	None

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:

Personal Precautions, Protective Equipment and/or Emergency Procedures:
None

Materials and Methods for Containment and Clean-Up: None

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING AND USE:

- **Ventilation:** Local exhaust (if spray applying)
 - **Precautions for Safe Handling:** None
 - **Conditions for Safe Storage, Including Incompatibilities:** None
-

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients	OSHA PEL	ACGIH TLV
Silica (Si O ₂)	30 mg/m ³	0.025mg/m ³
Calcium Carbonate	15 mg/m ³	N/A
Frit	N/A	N/A
Zirconium Silicate	N/A	N/A
Kaolin/Clay	N/A	N/A
Nepheline Syenite	N/A	N/A
Zinc Oxide	15 mg/m ³	2 mg/m ³
Carboxymethylcellulose	N/A	N/A
Water	N/A	N/A

- **Engineer Control:** Adequate ventilation (local exhaust) if spray applied.
- **Respiratory Protection:** Use a NIOSH approved respirator if spray applying.
- **Protective Gloves:** Not normally needed.
- **Eye Protection:** Wear appropriate eye protection or safety glasses to keep dust out of eyes.

- **Other Protective Clothing or Equipment:** Wear appropriate clean, protective clothing such as, but not limited to, overalls, smocks, and aprons.
- **Work/Hygienic Practices:** Food, beverages, and smoking materials should not be in the work area. Hygiene is very important. Wash thoroughly before eating, drinking, smoking, or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colored and/or Clear Liquids
Odor/Odor Threshold:	Negligible
PH:	N/A
Boiling Point:	N/A
Freezing point:	32°F
Flash Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Flammability:	N/A
Evaporation Rate:	N/A
Upper/Lower Explosive Limits:	None
Partition Coefficient (n-octanol/water):	None
Relative Density:	N/A
Solubility(ies):	N/A
Decompositional Temperature:	None
Viscosity:	N/A
Auto ignition temperature:	N/A

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	N/A
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	None
Conditions to Avoid:	Fumes from firing in kiln; Mist created from spray application.

Incompatible Material:	None
Hazardous Decomposition or By-Products:	N/A

SECTION 11: TOXICOLOGY INFORMATION

Primary Route(s) of Entry: Dermal, Inhalation. The highest threat of inhalation exists during dispensing and mixing of dry products, excessive handling of dried, unfired glazed ware and/or during spray application.

Additional information:

These mixtures contain silica, a known carcinogen. **Inhalation** is the only route of entry into the body that can cause Silicosis.

The water-based, premixed products and the dry mix products, when mixed with water, should be non-toxic during recommended use.

Pigments are various metals and metal compounds (may contain one or more of the following: tin, iron, zirconium, zinc, cobalt, chromium (III) vanadium, praseodymium, aluminum, cadmium, copper, selenium, manganese).

The risk of exposure to these metals is minimal due to the low percentage used in the glaze formulas. Dermal exposure is negligible as these metals have poor dermal absorption. Inhalation exposure is increased with the use of dry mix products.

Cobalt, and cadmium are considered animal carcinogens. Silica (quartz) is considered a human carcinogen.

Frits are fused silica glass-like substances. The bioavailability is limited because of the physical nature of the frit.

These products conform to ASTM-4236 and have been certified by an independent, 3rd party toxicologist to be NON TOXIC.

SECTION 12: ECOLOGICAL INFORMATION

Mobility in Soil:	No
Persistence:	Yes
Bioaccumulation:	No
Ecotoxicity:	None
Other Adverse Effects:	None

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Residue/Disposal Methods: None

Safe Handling Information: None

SECTION 14: TRANSPORTATION INFORMATION

UN Shipping Name: N/A

UN Number: None

Environmental Hazard: None

Packing Group: None

Transportation Hazard Class: N/A

Special Precautions: None

SECTION 15: REGULATORY INFORMATION

Silica (Quartz), Cobalt and Cadmium are listed by California, Proposition 65, as carcinogenic.

Silica (Quartz), Cobalt and Cadmium are listed on the IARC, OSHA or NTP carcinogen list.

All ingredients are on U.S. TSCA Inventory.

SARA Section 313: None

These products conform to ASTM-4236. Materials have been evaluated under the provisions of LHAMA (Labeling of Hazardous Art Material Act). Products listed on this SDS have been judged to be non-toxic and non-flammable under proposed use conditions. No special warning is required under provisions of LHAMA or California Proposition 65.

SECTION 16: ADDITIONAL INFORMATION

Sax True Flow[®] Glazes do not contain and products and/or ingredients derived from peanuts, eggs, milk, or wheat. Sax True Flow[®] Glazes do not contain latex.

This information is furnished with out warranty, representation, inducement or license of any kind, except that it is accurate to the best of knowledge of COLORAMICS, LLC or obtained from sources believed to be accurate.

COLORAMICS, LLC does not assume any legal responsibility for use or reliance on same. Customers are encouraged to conduct their own tests before using any product. Read the product label.

439232, 235, 238, 241, 244
 439247, 250, 253, 256, 259
 Recv Oct 2005 439262, 265, 268, 271, 274
 SAFETY DATA SHEET 439277, 280, 283, 286, 289
 439292, 295, 298, 301

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Identification of the substance or preparation:**

Name: Sax True Flow Acrylics M-vis : all colours.

Product code: STFALM.

Company/undertaking identification:

Registered company name: School Specialty Inc..

Address: W6316 Design Drive. WI 54942. Greenville..

Telephone: 888-388-3224. Fax:.. Telex:..

Emergency telephone: 800-222-1222.

Association/Organisation: .

Use of the substance/preparation:

Paint & Varnish

2 - COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous substances present on their own:**

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)

This preparation contains no hazardous substance in this category.

Other substances representing a hazard:

No known substance in this category present.

Substances present at a concentration below the minimum danger threshold:

No known substance in this category present.

Other substances with occupational exposure limits:

No known substance in this category present.

Other components:

Conforms to ASTM D-4236

3 - IDENTIFICATION OF HAZARDS

This product is not classed as flammable. Refer to the recommendations regarding the other products present on the site

This preparation is not classed as hazardous to health by directive 1999/45/EC.

Other data:

Packaging < 125 ml.

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing in an unconscious person.

5 - FIRE-FIGHTING MEASURES

Not relevant.

6 - ACCIDENTAL RELEASE MEASURES**Personal precautions:**

Consult the safety measures listed under headings 7 and 8.

Environmental precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Methods for cleaning up:

Clean preferably with a detergent, do not use solvents.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Fire prevention:

Prevent access by unauthorised personnel.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Technical measures:

Personnel shall wear regularly laundered overalls.

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state:

viscous liquid

Important health, safety and environmental information:

pH of the substance or preparation:

slightly basic.

When a pH measure is possible, it has a value of:

8.50

Boiling point/boiling range:

not relevant.

Flash point interval:

not relevant.

vapour pressure:

not specified.

Density:

> 1

water solubility:

Dilutable.

Other information:

melting point/melting range:

not relevant.

Self-ignition temperature:

not relevant.

Decomposition point/decomposition range :

not relevant.

10 - STABILITY AND REACTIVITY

The preparation is stable at the handling and storage conditions recommended per § 7 of the safety data sheet.

11 - TOXICOLOGICAL INFORMATION

The preparation contains no substance classed as hazardous per directive 67/548/EEC.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

Other adverse effects:

Germany: WGK 2 (VwVwS vom 17/05/99, KBws)

13 - DISPOSAL CONSIDERATIONS

Do not pour into drains or waterways.

Waste:

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.
Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging:

Empty container completely. Keep label(s) on container.
Give to a certified disposal contractor.

Codes of wastes (Decision 2001/573/EC, Directive 75/442/EEC, Directive 91/689/EEC on hazardous waste) :

08 01 11 * waste paint and varnish containing organic solvents or other dangerous substances

14 - TRANSPORT INFORMATION

Exempt from transport classification and labelling.

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2005 - IMDG 2004 - ICAO/IATA 2005).

15 - STATUTORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations
In addition directive 2004/73/EC with the 29° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

This preparation is not classed as hazardous to health by directive 1999/45/EC.

This product is not classed as flammable.

Packaging < 125 ml.

Particular provisions:

Germany: WGK 2 (VwVwS vom 17/05/99, KBws)

16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

Full text of risk phrases appearing in section 2:

Material Safety Data Sheet

CHROMA INC

Manufacturer

205 BUCKY DRIVE

Address

LITITZ PA 17543

(717)626-8866

Phone Number (For Information)

(717)626-8866

Emergency Phone Number

Telex*

SAX VERSA TEMP LIQUID TEMPERA

Identity (Trade Name As Used On Label)

MSDS Number*

CAS Number*

10/12

Date Prepared

Prepared By*

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

COMPONENTS — Chemical Name & Common Names (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	% *	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED
PRODUCT IS WATER BASED, NON-TOXIC, NON HAZARDOUS				
TEMPERA COLOR IN LIQUID FORM. CERTIFIED NON-TOXIC				
BY (ART & CREATIVE MATERIALS INSTITUTE).				
1. WATER				
2. VARIOUS COLORED PIGMENTS				
3. CALCIUM CARBONATE				
4. ACRYLIC THICKENERS				
5. PRESERVATIVE - NON HAZARDOUS AT LEVEL USED.				
*ALL INFORMATION THE SAME FOR ALL SIZES & COLORS				
Non-Hazardous Ingredients				
TOTAL	100			

SECTION 2 - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point 215-275°F	Specific Gravity (H ₂ O = 1)	NOT KNOWN
Vapor Pressure (mm Hg and Temperature) NOT KNOWN	Melting Point	NOT KNOWN
Vapor Density (Air = 1) LIGHTER THAN AIR	Evaporation Rate (= 1)	SLOWER THAN ETHER
Solubility in Water TOTALLY SOLUBLE	Water Reactive	NOT KNOWN

Appearance and Odor

LIQUID TEMPERA IN ASSORTED COLORS. MAY BE SLIGHT AMMONIA SMELL.

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method Used N/A	Auto-Ignition Temperature N/A	Flammability Limits in Air % by Volume N/A	LEL UNKNOWN	UEL UNKNOWN
Extinguisher Media N/A				
Special Fire Fighting Procedures N/A				

Unusual Fire and Explosion Hazards N/A

*Optional

SECTION 4 - REACTIVITY HAZARD DATA

PAGE 2 - SAX VERSA TEMP LIQUID TEMPERA

STABILITY <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	Conditions To Avoid N/A
Incompatibility (Materials to Avoid) NONE	
Hazardous Decomposition Products NONE	
HAZARDOUS POLYMERIZATION <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur	Conditions To Avoid N/A

SECTION 5 - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY	<input type="checkbox"/> Inhalation <input type="checkbox"/> Skin Absorption	<input type="checkbox"/> Ingestion <input checked="" type="checkbox"/> Not Hazardous	CARCINOGEN LISTED IN	<input type="checkbox"/> NTP <input type="checkbox"/> IARC Monograph	<input type="checkbox"/> OSHA <input checked="" type="checkbox"/> Not Listed
HEALTH HAZARDS	Acute	NONE			
	Chronic	NONE			
Signs and Symptoms of Exposure		NONE			
Medical Conditions Generally Aggravated by Exposure		NONE			
EMERGENCY FIRST AID PROCEDURES - Seek medical assistance for further treatment, observation and support if necessary.					
Eye Contact		NONE			
Skin Contact		NONE			
Inhalation		NONE			
Ingestion		NONE			

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (Specify Type)	NONE NEEDED UNDER NORMAL CONDITIONS OF USE					
Protective Gloves	NOT REQUIRED		Eye Protection	NOT REQUIRED		
VENTILATION TO BE USED	<input type="checkbox"/> Local Exhaust	N/A	<input type="checkbox"/> Mechanical (general)	N/A	<input type="checkbox"/> Special	N/A
	<input type="checkbox"/> Other (specify)	N/A				
Other Protective Clothing and Equipment	NOT REQUIRED					
Hygienic Work Practices	AS WITH ANY WATER BASED PRODUCT					

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE / LEAK PROCEDURES

Steps to be Taken If Material Is Spilled Or Released	DIKE AND CONTAIN SPILL WITH INERT MATERIALS (SAND, SAWDUST, ETC.) AND TRANSFER TO CONTAINERS FOR DISPOSAL.
Waste Disposal Methods	NORMAL DISPOSAL
Precautions to be Taken in Handling and Storage	NO PARTICULAR PRECAUTIONS
Other Precautions and/or Special Hazards	NONE

NFPA Rating*	Health	Flammability	Reactivity	Special	HMIS Rating*	Health	Flammability	Reactivity	Personal Protection
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*Optional

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Reorder No. 2217-2

MATERIAL SAFETY DATA SHEET

A6W153
16 00

DATE OF PREPARATION
Mar 7, 2012

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

A6W153

PRODUCT NAME

A-100® Exterior Flat Latex Paint, Deep Base

MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.1	14464-46-1	Cristobalite		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.05 mg/m3 as Resp. Dust	
4	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
2	1314-13-2	Zinc Oxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.

SKIN: Prolonged or repeated exposure may cause irritation.

INHALATION: Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

HMIS Codes

Health	1*
Flammability	0
Reactivity	0

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

SKIN: Wash affected area thoroughly with soap and water.

Remove contaminated clothing and launder before re-use.

INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
Not Applicable	N.A.	N.A.	Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE**STORAGE CATEGORY**

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m³ (total dust), 3 mg/m³ (respirable fraction), OSHA PEL 15 mg/m³ (total dust), 5 mg/m³ (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits.

Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	11.19 lb/gal	1340 g/l
SPECIFIC GRAVITY	1.35	
BOILING POINT	212 - 213 °F	100 - 100 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	60%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	8.8	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

0.39 lb/gal 47 g/l Less Water and Federally Exempt Solvents

0.16 lb/gal 19 g/l Emitted VOC

VOLATILE ORGANIC COMPOUNDS (VOC - As Applied)

<0.41 lb/gal <50 g/l Less Water and Federally Exempt Solvents

SECTION 10 — STABILITY AND REACTIVITY**STABILITY — Stable****CONDITIONS TO AVOID**

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION**CHRONIC HEALTH HAZARDS**

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name			
14464-46-1	Cristobalite	LC50 RAT LD50 RAT	4HR	Not Available Not Available
13463-67-7	Titanium Dioxide	LC50 RAT LD50 RAT	4HR	Not Available Not Available
1314-13-2	Zinc Oxide	LC50 RAT LD50 RAT	4HR	Not Available Not Available

SECTION 12 — ECOLOGICAL INFORMATION**ECOTOXICOLOGICAL INFORMATION**

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS**WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

US Ground (DOT)

Not Regulated for Transportation.

Canada (TDG)

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

IATA/ICAO

Not Regulated for Transportation.

SECTION 15 — REGULATORY INFORMATION**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
	Zinc Compound	2	1.7

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard, 29 CFR 1910.1200
Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved OMB No. 1218-0072

IDENTITY (*As Used on Label and List*)
Acrylic Modeling Paste (6881, 6882, 6883)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I Manufacturer's Name
Speedball Art Products, LLC

Emergency Telephone Number
704-838-1475

Address (*Number, Street, City, State, and ZIP Code*)
2301 Speedball Road Statesville, NC 28677 USA

Telephone Number for Information
704-838-1475

Date Prepared: **January 2, 2013**

Signature of Preparer (*optional*)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s)): OSHA PEL ACGIH TLV Other Limits %(*optional*)
Recommended

VOC: 59 grams per litre (.49 lbs. per gallon)

Product labeling conforms to ASTM D-4236. Approved for the AP seal as per the Art & Craft Materials Institute, Inc. (ACMI). Note: This product has been certified to be non-toxic. This product has been evaluated by a Toxicologist only as per intended usage. DO NOT DEVIATE FROM INTENDED USE.

Section III - Physical/Chemical Characteristics

Boiling Point	212°F	Specific Gravity (H ₂ O = 1)	1.3
Vapor Pressure (mm Hg.)	17mmHg	Melting Point	<32°F
Vapor Density (AIR = 1)	Less than 1	Evaporation Rate (Butyl Acetate = 1)	Less than 1
Solubility in Water	Dilutable	Appearance and Odor	Thick paste with slight odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media N/A			
Special Fire Fighting Procedures Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.			
Unusual Fire and Explosion Hazards Material can spatter above 212°F. Film can burn.			

Stability	Unstable	Stable ✓	Conditions to Avoid Onset of decomposition is 350°F
Incompatibility (<i>Materials to Avoid</i>) N/A			
Hazardous Decomposition or Byproducts Oxides of carbon and nitrogen			
Hazardous Polymerization	May Occur	Will Not Occur ✓	Conditions to Avoid N/A

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? N/A	Skin? N/A	Ingestion? N/A
Health Hazards (<i>Acute and Chronic</i>) N/A			
Carcinogenicity: N/A	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure N/A			
Medical Conditions Generally Aggravated by Exposure None known			
Emergency and First Aid Procedures Contact with eyes may cause slight irritation: Flush with water.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Floor may be slippery; use care to avoid falling. Transfer to containers for recovery or disposal. Keep out of municipal sewers and open bodies of water.
Waste Disposal Method Incineration at permitted facility. Observe all Federal, State and local laws concerning health and environment.
Precautions to Be taken in Handling and Storing Keep from freezing-product may coagulate
Other Precautions N/A

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>) None required with adequate ventilation & normal usage conditions.		
Ventilation	Local Exhaust N/A	Special N/A
	Mechanical (<i>General</i>) N/A	Other N/A
Protective Gloves Impervious		Eye Protection Safety Glasses or goggles
Other Protective Clothing or Equipment N/A		
Work/Hygienic Practices Use protective cream where excessive skin contact is likely.		

Material Safety Data Sheet

May be used to comply with

OSHA's Hazard Communication Standard, 29 CFR 1910.1200

Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration

(Non-Mandatory Form)

Form Approved OMB No. 1218-0072

IDENTITY (*As Used on Label and List*)

Oil Based Block Printing Ink (3450-3460, 3550-3556)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I Manufacturer's Name

Speedball Art Products, LLC

Emergency Telephone Number

704-838-1475

Address (*Number, Street, City, State, and ZIP Code*)

2301 Speedball Road Statesville, NC 28677 USA

Telephone Number for Information

704-838-1475

Date Prepared: **January 2, 2013**

Signature of Preparer (*optional*)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s)):	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(<i>optional</i>)
Mineral Spirits (CAS #8052-41-3)	N/A	500pp	N/A	3.5-9.9%

Product labeling conforms to ASTM D-4236. Approved for the AP seal as per the Art & Craft Materials Institute, Inc. (ACMI). Note: This product has been certified to be non-toxic. This product has been evaluated by a Toxicologist only as per intended usage. DO NOT DEVIATE FROM INTENDED USE.

Section III - Physical/Chemical Characteristics

Boiling Point	275°F-410°F	Specific Gravity (H ₂ O = 1)	.96-1.62
Vapor Pressure (mm Hg.)	Unknown	Melting Point	N/A
Vapor Density (AIR = 1)	Greater than 1	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	Not soluble	Appearance and Odor	Paste with slight odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) Greater than 105°F TCC	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media Water spray, dry chemical, foam & carbon dioxide			
Special Fire Fighting Procedures Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear. Use water to keep fire-exposed containers cool.			
Unusual Fire and Explosion Hazards Rags and waste paper containing this material may heat and burn spontaneously. Store wiping rags containing this material in metal cans with tight lids.			

Stability	Unstable	Stable ✓	Conditions to Avoid None known.
Incompatibility (<i>Materials to Avoid</i>) Avoid contact with strong oxidizing agents			
Hazardous Decomposition or Byproducts Usual products of combustion-carbon monoxide & carbon monoxide			
Hazardous Polymerization	May Occur	Will Not Occur ✓	Conditions to Avoid N/A

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? See below	Skin? Irritation with prolonged contact	Ingestion? N/A
Health Hazards (<i>Acute and Chronic</i>) Solvent vapor can cause headache, dizziness & nausea. Eye contact: can cause irritation and transient corneal injury. Overexposure can cause central nervous system effects.			
Carcinogenicity: N/A	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure N/A			
Medical Conditions Generally Aggravated by Exposure Pre-existing skin, eye, and respiratory disorders.			
Emergency and First Aid Procedures Contact with eyes: Flush with water for 15 minutes. Skin: wash affected area with soap & water. Ingestion-do NOT induce vomiting, contact doctor. Inhalation-move subject to fresh air.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Large spills should be diked and absorbed on inert material such as sand.
Waste Disposal Method Incineration at permitted facility. Observe all Federal, State and local laws concerning health and environment.
Precautions to Be taken in Handling and Storing Treat as flammable material.
Other Precautions N/A

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>) None required with adequate ventilation & normal usage conditions.		
Ventilation	Local Exhaust N/A	Special N/A
	Mechanical (<i>General</i>) N/A	Other N/A
Protective Gloves Impervious		Eye Protection Safety Glasses or goggles
Other Protective Clothing or Equipment Eyewash fountains and safety showers must be accessible.		
Work/Hygienic Practices Use protective cream where excessive skin contact is likely.		

Material Safety Data Sheet

May be used to comply with

OSHA's Hazard Communication Standard, 29 CFR 1910.1200

Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration

(Non-Mandatory Form)

Form Approved OMB No. 1218-0072

IDENTITY (*As Used on Label and List*)

Opaque Fabric Screen Printing Ink (8 oz) 4800-4809

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I Manufacturer's Name

Speedball Art Products, LLC

Emergency Telephone Number

704-838-1475

Address (*Number, Street, City, State, and ZIP Code*)

2301 Speedball Road Statesville, NC 28677 USA

Telephone Number for Information

704-838-1475

Date Prepared: **January 2, 2013**

Signature of Preparer (*optional*)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s)): OSHA PEL ACGIH TLV Other Limits %(*optional*)
VOC: 85-199 grams per litre (.71-1.66 lbs. per gallon)

Product labeling conforms to ASTM D-4236. Approved for the AP seal as per the Art & Craft Materials Institute, Inc. (ACMI). Note: This product has been certified to be non-toxic. This product has been evaluated by a Toxicologist only as per intended usage. DO NOT DEVIATE FROM INTENDED USE.

Section III - Physical/Chemical Characteristics

Boiling Point	212°F - 369°F	Specific Gravity (H ₂ O = 1)	1.11 – 1.57
Vapor Pressure (mm Hg.)	17mmHg	Melting Point	<32°F
Vapor Density (AIR = 1)	Less than 1	Evaporation Rate (Butyl Acetate = 1)	Less than 1
Solubility in Water	Dilutable	Appearance and Odor	High viscosity; acrylic emulsion odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media N/A			
Special Fire Fighting Procedures Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.			
Unusual Fire and Explosion Hazards Material can spatter above 212°F. Film can burn.			

(Reproduce locally)

OSHA 174, Sept. 1985

Stability	Unstable	Stable ✓	Conditions to Avoid Onset of decomposition is 350°F
Incompatibility (<i>Materials to Avoid</i>) N/A			
Hazardous Decomposition or Byproducts Oxides of carbon and nitrogen			
Hazardous Polymerization	May Occur	Will Not Occur ✓	Conditions to Avoid N/A

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? N/A	Skin? N/A	Ingestion? N/A
Health Hazards (<i>Acute and Chronic</i>) N/A			
Carcinogenicity: N/A	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure N/A			
Medical Conditions Generally Aggravated by Exposure None known			
Emergency and First Aid Procedures Contact with eyes may cause slight irritation: Flush with water.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Floor may be slippery; use care to avoid falling. Transfer to containers for recovery or disposal. Keep out of municipal sewers and open bodies of water.
Waste Disposal Method Incineration at permitted facility. Observe all Federal, State and local laws concerning health and environment.
Precautions to Be taken in Handling and Storing Keep from freezing-product may coagulate
Other Precautions N/A

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>) None required with adequate ventilation & normal usage conditions.		
Ventilation	Local Exhaust N/A	Special N/A
	Mechanical (<i>General</i>) N/A	Other N/A
Protective Gloves Impervious		Eye Protection Safety Glasses or goggles
Other Protective Clothing or Equipment N/A		
Work/Hygienic Practices Use protective cream where excessive skin contact is likely.		

MATERIAL SAFETY DATA SHEET

4/19/2013

MANUFACTURER OR DISTRIBUTOR: **Speedball Art Products Co.**
2301 Speedball Road
Statesville, NC 28677

INFORMATION TELEPHONE NUMBER: **1--800-898-7224**

EMERGENCY TELEPHONE NUMBER: **1-800-898-7224**

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: SPEEDBALL EARTHENWARE GLAZES

PRODUCT NUMBER: 4000-GLAZE

PRODUCT SIZES: 16 OZ, 1 GALLON

BRAND NAME: **SPEEDBALL EARTHENWARE GLAZES**

PRODUCT CLASS: CERAMIC GLAZES

SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS#</u>	<u>PEL/TLV</u>	<u>Max</u>	<u>(MG/M#)</u>	<u>%Weight</u>	<u>NTP</u>	<u>IARC</u>
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None

SECTION III - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: N/A
VAPOR PRESSURE: N/A
SPECIFIC VAPOR DENSITY (AIR*1): N/A
SOLUBILITY IN WATER: N/A
APPEARANCE AND ODOR:

MELTING POINT: N/A
SPECIFIC GRAVITY: N/A
REACTIVITY IN WATER: NON-REACTIVE

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT (METHOD): N/A
EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE
EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED
FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED
UNUSUAL FIRE & EXPLOSION HAZARDS: NOT COMBUSTIBLE

AUTOIGNITION TEMPERATURE: N/A

SECTION V - PHYSICAL HAZARDS/REACTIVITY

HAZARDOUS POLYMERIZATION PRODUCTS: NONE
STABILITY: STABLE CONDITIONS TO AVOID: NONE
INCOMPATIBILITY (MATERIALS TO AVOID): NONE
HAZARDOUS DECOMPOSITION PRODUCTS: NONE

SECTION VI - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: SEE SECTION II FOR COMPONENT
PRIMARY ROUTES OF ENTRY: INHALATION, INGESTION, EYE, SKIN

EFFECTS AND SYMPTOMS OF ACUTE EXPOSURE: NONE EXPECTED

EFFECTS AND SYMPTOMS OF CHRONIC EXPOSURE: NONE EXPECTED

CARCINOGEN LISTING: NTP: NO !ARC: NO OSHA: NO

SEE SECTION II FOR COMPONENTS AFFECTED

MEDICAL CONDITIONS USUALLY AGGRAVATED BY OVER EXPOSURE TO THIS PRODUCT: NONE

FIRST AID MEASURES: NONE REQUIRED. NO ACUTE HEALTH EFFECTS EXPECTED.

SECTION VII - SPILL OR LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: NO SPECIAL PRECAUTIONS REQUIRED.

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: NO SPECIAL SPILL PROCEDURES REQUIRED.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION VIII - PROTECTIVE EQUIPMENT/CONTROL MEASURES

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: NONE REQUIRED

OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): NONE REQUIRED

WORK/HYGIENE PRACTICES: NONE REQUIRED

SECTION IX - ADDITIONAL INFORMATION AND WARNINGS

THIS INFORMATION SHEET IS FOR THE CONSUMER USE OF THIS PRODUCT ONLY.

SECTION X - COLOR INFORMATION

THIS MSDS APPLIES TO THE FOLLOWING COLORS WHICH ARE ASSOCIATED WITH HAZARDOUS AND/OR NOT HAZARDOUS INGREDIENTS::

Product Color	Hazardous Ingredient
4000 CLEAR/4070 CLEAR	(none)
4001 BRIGHT WHITE	(none)
4002 YELLOW	(none)
4003 YELLOW ORANGE	(none)
4004 CHARTREUSE	(none)
4005 CELADON	(none)
4006 GRASS GREEN	(none)
4007 PINE	(none)
4008 AQUA	(none)
4009 TURQUOISE	(none)
4010 SEA BLUE	(none)
4011 MEDIUM BLUE	(none)
4012 ROYAL BLUE	(none)
4013 PURPLE	(none)
4014 VIOLET	(none)
4015 BURGUNDY	(none)
4016 PINK	(none)
4017 GREY	(none)
4018 BLACK	(none)
4019 TAUPE	(none)
4020 HONEY	(none)
4021 BROWN	(none)
4022 ORANGE	(none)
4023 RED	(none)

Form Completed By: Woodhall Stopford, MD, MSPH
Last Updated: 10/14/2005

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard, 29 CFR 1910.1200
Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved OMB No. 1218-0072

IDENTITY (As Used on Label and List)

Water Soluble Block Printing Inks (3400-3449, 3500-3549, 3600-3636, 3700-3730, 3800-3817)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I Manufacturer's Name
Speedball Art Products, LLC

Emergency Telephone Number
704-838-1475

Address (Number, Street, City, State, and ZIP Code)
2301 Speedball Road Statesville, NC 28677 USA

Telephone Number for Information
704-838-1475

Date Prepared: **January 2, 2013**

Signature of Preparer (optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s)):	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(optional)
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Product labeling conforms to ASTM D-4236. Approved for the AP seal as per the Art & Craft Materials Institute, Inc. (ACMI). Note: This product has been certified to be non-toxic. This product has been evaluated by a Toxicologist only as per intended usage. DO NOT DEVIATE FROM INTENDED USE.

Section III - Physical/Chemical Characteristics

Boiling Point	212°F-369°F	Specific Gravity (H ₂ O = 1)	1.2-1.7
Vapor Pressure (mm Hg.)	N/A	Melting Point	<32°F
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	Less than 1
Solubility in Water	Dilutable	Appearance and Odor	Thick paste with slight odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media N/A			
Special Fire Fighting Procedures Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.			
Unusual Fire and Explosion Hazards Material can spatter above 212°F. Film can burn.			

Stability	Unstable	Stable ✓	Conditions to Avoid Onset of decomposition is 350°F
Incompatibility (<i>Materials to Avoid</i>) N/A			
Hazardous Decomposition or Byproducts Oxides of carbon and nitrogen			
Hazardous Polymerization	May Occur	Will Not Occur ✓	Conditions to Avoid N/A

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? N/A	Skin? Irritation with prolonged contact	Ingestion? N/A
Health Hazards (<i>Acute and Chronic</i>) N/A			
Carcinogenicity: N/A	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure N/A			
Medical Conditions Generally Aggravated by Exposure None known			
Emergency and First Aid Procedures Contact with eyes may cause slight irritation: Flush with water.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Floor may be slippery; use care to avoid falling. Transfer to containers for recovery or disposal. Keep out of municipal sewers and open bodies of water.
Waste Disposal Method Incineration at permitted facility. Observe all Federal, State and local laws concerning health and environment.
Precautions to Be taken in Handling and Storing Keep from freezing-product may coagulate
Other Precautions N/A

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>) None required with adequate ventilation & normal usage conditions.		
Ventilation	Local Exhaust N/A	Special N/A
	Mechanical (<i>General</i>) N/A	Other N/A
Protective Gloves Impervious		Eye Protection Safety Glasses or goggles
Other Protective Clothing or Equipment N/A		
Work/Hygienic Practices Use protective cream where excessive skin contact is likely.		

Material Safety Data Sheet

May be used to comply with

OSHA's Hazard Communication Standard, 29 CFR 1910.1200

Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration

(Non-Mandatory Form)

Form Approved OMB No. 1218-0072

IDENTITY (*As Used on Label and List*)

Water Soluble Screen Printing Ink (4540-4549, 4580-4589, 4572)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I Manufacturer's Name

Speedball Art Products, LLC

Emergency Telephone Number

704-838-1475

Address (*Number, Street, City, State, and ZIP Code*)

2301 Speedball Road Statesville, NC 28677 USA

Telephone Number for Information

704-838-1475

Date Prepared: **January 2, 2013**

Signature of Preparer (*optional*)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s)):	OSHA PEL	ACGIH TLV	Other Limits Recommended	%(<i>optional</i>)
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VOC: 106-134 grams per litre (.88-1.12 lbs. per gallon)

Product labeling conforms to ASTM D-4236. Approved for the AP seal as per the Art & Craft Materials Institute, Inc. (ACMI). Note: This product has been certified to be non-toxic. This product has been evaluated by a Toxicologist only as per intended usage. DO NOT DEVIATE FROM INTENDED USE.

Section III - Physical/Chemical Characteristics

Boiling Point	212°F-369°F	Specific Gravity (H ₂ O = 1)	1.11-1.57
Vapor Pressure (mm Hg.)	N/A	Melting Point	<32°F
Vapor Density (AIR = 1)	Less than 1	Evaporation Rate (Butyl Acetate = 1)	Less than 1
Solubility in Water	Dilutable	Appearance and Odor	Semi-paste with slight odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media N/A			
Special Fire Fighting Procedures Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.			
Unusual Fire and Explosion Hazards Material can spatter above 212°F. Film can burn.			

(Reproduce locally)

OSHA 174, Sept. 1985

Section V - Reactivity Data

Screen Drawing Fluid

Page 2

Stability	Unstable	Stable ✓	Conditions to Avoid Onset of decomposition is 350°F
Incompatibility (<i>Materials to Avoid</i>) N/A			
Hazardous Decomposition or Byproducts Oxides of carbon and nitrogen			
Hazardous Polymerization	May Occur	Will Not Occur ✓	Conditions to Avoid N/A

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation? N/A	Skin? N/A	Ingestion? N/A
Health Hazards (<i>Acute and Chronic</i>) N/A			
Carcinogenicity: N/A	NTP? N/A	IARC Monographs? N/A	OSHA Regulated? N/A
Signs and Symptoms of Exposure N/A			
Medical Conditions Generally Aggravated by Exposure None known			
Emergency and First Aid Procedures Contact with eyes may cause slight irritation: Flush with water.			

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Floor may be slippery; use care to avoid falling. Transfer to containers for recovery or disposal. Keep out of municipal sewers and open bodies of water.	
Waste Disposal Method Incineration at permitted facility. Observe all Federal, State and local laws concerning health and environment.	
Precautions to Be taken in Handling and Storing Keep from freezing-product may coagulate	
Other Precautions N/A	

Section VIII - Control Measures

Respiratory Protection (<i>Specify Type</i>) None required with adequate ventilation & normal usage conditions.		
Ventilation	Local Exhaust N/A	Special N/A
	Mechanical (<i>General</i>) N/A	Other N/A
Protective Gloves Impervious		Eye Protection Safety Glasses or goggles
Other Protective Clothing or Equipment N/A		
Work/Hygienic Practices Use protective cream where excessive skin contact is likely.		

Section 1: IDENTIFICATION**Product Name:** Simple Green® All-Purpose Cleaner**Additional Names:****Manufacturer's Part Number:** **Please refer to Section 16***Recommended Use:** Cleaner & Degreaser for water tolerant surfaces.**Restrictions on Use:** Do not use on non-rinsable surfaces.**Company:** Sunshine Makers, Inc.
15922 Pacific Coast Highway
Huntington Beach, CA 92649 USA**Telephone:** 800-228-0709 • 562-795-6000 *Mon – Fri, 8am – 5pm PST***Fax:** 562-592-3830**Email:** info@simplegreen.com**Emergency Phone:** Chem-Tel 24-Hour Emergency Service: 800-255-3924**Section 2: HAZARDS IDENTIFICATION****This product is not classified as hazardous under 2012 OSHA Hazard Communication Standards (29 CFR 1910.1200).**OSHA HCS 2012Label Elements**Signal Word:** None**Hazard Symbol(s)/Pictogram(s):** None required**Hazard Statements:** None**Precautionary Statements:** None**Hazards Not Otherwise Classified (HNOC):** None**Other Information:** None Known**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent Range</u>
Water	7732-18-5	> 84.8%*
Ethoxylated Alcohol	68439-46-3	< 5%*
Sodium Citrate	68-04-2	< 5%*
Tetrasodium <i>N,N</i> -bis(carboxymethyl)-L-glutamate	51981-21-6	< 1%*
Sodium Carbonate	497-19-8	< 1%*
Citric Acid	77-92-9	< 1%*
Isothiazolinone mixture	55965-84-9	< 0.2%*
Fragrance	Proprietary Mixture	< 1%*
Colorant	Proprietary Mixture	< 1%*

specific percentages of composition are being withheld as a trade secret*Section 4: FIRST-AID MEASURES****Inhalation:** Not expected to cause respiratory irritation. If adverse effect occurs, move to fresh air.**Skin Contact:** Not expected to cause skin irritation. If adverse effect occurs, rinse skin with water.**Eye Contact:** Not expected to cause eye irritation. If adverse effect occurs, flush eyes with water.**Ingestion:** May cause upset stomach. Drink plenty of water to dilute. See section 11.**Most Important Symptoms/Effects, Acute and Delayed:** None known.**Indication of Immediate Medical Attention and Special Treatment Needed, if necessary:** Treat symptomatically

Section 5: FIRE-FIGHTING MEASURES

Suitable & Unsuitable Extinguishing Media: Use Dry chemical, CO₂, water spray or “alcohol” foam. Avoid high volume jet water.
Specific Hazards Arising from Chemical: In event of fire, fire created carbon oxides may be formed.
Special Protective Actions for Fire-Fighters: Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

This product is non-flammable. See Section 9 for Physical Properties.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: *For non-emergency and emergency personnel:* See section 8 – personal protection. Avoid eye contact. Safety goggles suggested.

Environmental Precautions: Do not allow into open waterways and ground water systems.

Methods and Materials for Containment and Clean Up: Dike or soak up with inert absorbent material. See section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and direct sunlight. Do not pierce any part of the container. Do not mix or contaminate with any other chemical. Do not eat, drink or smoke while using this product.

Conditions for Safe Storage including Incompatibilities: Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 109°F (42.7°C). If separation occurs, mix the product for reconstitution.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values: No components listed with TWA or STEL values under OSHA or ACGIH.

Appropriate Engineering Controls: Showers, eyewash stations, ventilation systems

Individual Protection Measures / Personal Protective Equipment (PPE)

Eye Contact: Use protective glasses or safety goggles if splashing or spray-back is likely.
Respiratory: Use in well ventilated areas or local exhaust ventilations when cleaning small spaces.
Skin Contact: Use protective gloves (any material) when used for prolonged periods or dermally sensitive.
General Hygiene Considerations: Wash thoroughly after handling and before eating or drinking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green Liquid	Partition Coefficient: n-octanol/water:	Not determined
Odor:	Added sassafras odor	Autoignition Temperature:	Non-flammable
Odor Threshold:	Not determined	Decomposition Temperature:	109°F
pH ASTM D-1293:	8.5 – 9.5	Viscosity:	Like water
Freezing Point ASTM D-1177:	0-3.33°C (32-38°F)	Specific Gravity ASTM D-891:	1.01 – 1.03
Boiling Point & Range ASTM D-1120:	101°C (213.8°F)	VOCs:	<i>**Water & fragrance exemption in calculation</i>
Flash Point ASTM D-93:	> 212°F	SCAQMD 304-91 / EPA 24:	0 g/L 0 lb/gal 0%
Evaporation Rate ASTM D-1901:	¼ Butyl Acetate @ 25°C	CARB Method 310**:	2.5 g/L 0.021 lb/gal 0.25%
Flammability (solid, gas):	Not applicable	SCAQMD Method 313:	Not tested
Upper/Lower Flammability or Explosive Limits:	Not applicable	VOC Composite Partial Pressure:	Not determined
Vapor Pressure ASTM D-323:	0.60 PSI @77°F, 2.05 PSI @100°F	Relative Density ASTM D-4017:	8.34 – 8.42 lb/gal
Vapor Density:	Not determined	Solubility:	100% in water

Section 10: STABILITY AND REACTIVITY

Reactivity:	Non-reactive.
Chemical Stability:	Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Excessive heat or cold.
Incompatible Materials:	Do not mix with oxidizers, acids, bathroom cleaners, or disinfecting agents.
Hazardous Decomposition Products:	Normal products of combustion - CO, CO ₂ .

Section 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Inhalation -	Overexposure may cause headache.
	Skin Contact -	Not expected to cause irritation, repeated contact may cause dry skin.
	Eye Contact -	Not expected to cause irritation.
	Ingestion -	May cause upset stomach.

Symptoms related to the physical, chemical and toxicological characteristics: no symptoms expected under typical use conditions.

Delayed and immediate effects and or chronic effects from short term exposure: no symptoms expected under typical use conditions.

Delayed and immediate effects and or chronic effects from long term exposure: headache, dry skin, or skin irritation may occur.

Interactive effects: Not known.

Numerical Measures of Toxicity

Acute Toxicity:	Oral LD ₅₀ (rat)	> 5 g/kg body weight
	Dermal LD ₅₀ (rabbit)	> 5 g/kg body weight

Calculated via OSHA HCS 2012 / Globally Harmonized System of Classification and Labelling of Chemicals

Skin Corrosion/Irritation:	Non-irritant per Dermal Irritation® assay modeling. No animal testing performed.
Eye Damage/Irritation:	Minimal irritant per Ocular Irritation® assay modeling. No animal testing performed.
Germ Cell Mutagenicity:	Mixture does not classify under this category.
Carcinogenicity:	Mixture does not classify under this category.
Reproductive Toxicity:	Mixture does not classify under this category.
STOT-Single Exposure:	Mixture does not classify under this category.
STOT-Repeated Exposure:	Mixture does not classify under this category.
Aspiration Hazard:	Mixture does not classify under this category.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.
Aquatic:	Aquatic Toxicity - Low, based on OECD 201, 202, 203 + Microtox: EC ₅₀ & IC ₅₀ ≥100 mg/L. Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.
Terrestrial:	Not tested on finished formulation.
Persistence and Degradability:	Readily Biodegradable per OCED 301D, Closed Bottle Test
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.

Section 13: DISPOSAL CONSIDERATIONS

Unused or Used Liquid: May be considered hazardous in your area depending on usage and tonnage of disposal – check with local, regional, and or national regulations for appropriate methods of disposal.

Empty Containers: May be offered for recycling.

Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

U.N. Number: Not applicable
Transport Hazard Class(es): Not applicable
Packing Group: Not applicable
Environmental Hazards: Marine Pollutant - NO
U.N. Proper Shipping Name: Cleaning Compound, Liquid NOI
NMFC Number: 48580-3
Class: 55
Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code): Unknown.
Special precautions which user needs to be aware of/comply with, in connection with transport or conveyance either within or outside their premises: None known.

U.S. (DOT) / Canadian TDG: Not Regulated for shipping.
IMO / IDMG: Not classified as Hazardous
ICAO/ IATA: Not classified as Hazardous
ADR/RID: Not classified as Hazardous

Section 15: REGULATORY INFORMATION

All components are listed on: TSCA and DSL Inventory.

SARA Title III: Sections 311/312 Hazard Categories – Not applicable.
 Sections 313 Superfunds Amendments and Reauthorizations Act of 1986 – Not applicable.
 Sections 302 – Not applicable.

Clean Air Act (CAA): Not applicable

Clean Water Act (CWA): Not applicable

State Right To Know Lists: No ingredients listed

California Proposition 65: No ingredients listed

Texas ESL:

Ethoxylated Alcohol	68439-46-3	60 µg/m ³ long term	600 µg/m ³ short term
Sodium Citrate	68-04-2	5 µg/m ³ long term	50 µg/m ³ short term
Sodium Carbonate	497-19-8	5 µg/m ³ long term	50 µg/m ³ short term
Citric Acid	77-92-9	10 µg/m ³ long term	100 µg/m ³ short term

Section 16: OTHER INFORMATION

<u>Size</u>	<u>UPC</u>	<u>Size</u>	<u>UPC</u>
2 oz. Pump	043318130366	1 Gallon w/ Dilution Bottle	043318000669
2 oz. Pump	043318131035	1 Gallon	043318000799
4 oz. Pump	043318130014	1 Gallon w/ Dilution Bottle	043318001383
16 oz. Trigger	043318130021	1 Gallon w/ Dilution Bottle	043318002021
22 oz. Trigger	043318130229	1 Gallon	043318130052
24 oz. Trigger, 12 per case	043318000034	1 Gallon w/ Dilution Bottle, 112 per case	043318480140
24 oz. Trigger	043318000300	1 Gallon w/ Dilution Bottle, 4 per case	043318480416
24 oz. Trigger	043318130137	1 Gallon w/ Dilution Bottle, 24 per case	043318480492
32 oz. Trigger	043318000652	1 Gallon w/ laundry	043318002052
32 oz. Trigger	043318130335	1 Gallon w/ towel	043318001222
67.6 oz.	043318000393	140 oz.	043318001390
67.6 oz.	043318130144	140 oz., 168 per case	043318561405
1 Gallon w/ Dilution Bottle	043318000539	140 oz. w/ Dilution Bottle	043318001468
1 Gallon w/ Dilution Bottle	043318000645		

USA items listed only. Not all items listed. USA items may not be valid for international sale.

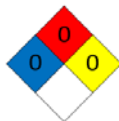
Section 16: OTHER INFORMATION - continued**NFPA:**

Health – None

Flammability – Non-flammable

Stability – Stable

Special - None

**Acronyms**

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

TSCA Toxic Substances Control Act

IARC

CPSC

DSL

International Agency for Research on Cancer

Consumer Product Safety Commission

Domestic Substances List

Prepared / Revised By: Sunshine Makers, Inc., Regulatory Department.**This SDS has been revised in the following sections:** Revised SDS layout

DISCLAIMER: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

HYDROGEN PEROXIDE 3% SOLUTION

Product and Company Identification
Composition/Information on Ingredients
Hazards Identification
First Aid Measures
Fire Fighting Measures
Accidental Release Measures
Handling and Storage
Exposure Controls/Personal Protection

Physical and Chemical Properties
Stability and Reactivity
Toxicological Information
Ecological Information
Disposal Considerations
Transport Information
Regulatory Information
Other Information / Hazmat Info / Hazcom Label

MSDS Safety Information[TOP](#)**FSC:** 6505**NIIN:** 00-153-
8480**MSDS Date:** 07/10/1990**MSDS Num:** BGXST**Submitter:** D DG**Tech Review:** 09/21/1990**Status CD:** C**Product ID:** HYDROGEN PEROXIDE 3% SOLUTION**MFN:** 01**Article:** N**Kit N
Part:****Responsible Party** **Cage:** 0TH10
Name: CUMBERLAND-SWAN, INC.**Address:** ONE SWAN DRIVE
City: SMYRNA**State:** TN**Box:** 129
Zip: 37167**Country:** US
Info Phone Number: 615-459-8900**Emergency Phone Number:** 615-459-8900**Preparer's Name:** JAMES R.BEAVER**Proprietary Ind:** N
Published: Y**Review Ind:** Y
Special Project CD: N**Contractor Summary**[TOP](#)**Cage:**ATD-A **Name:**ATD AMERICAN CO. (215-576-1000)**Address:**UNKNOWN
City:UNKNOWN**State:**NK**Zip:**00000**Country:**NK**Phone:**UNKNOWN

Cage:66611 Name:CMC INC. DBA CUMBERLAND MFG CO.

Address:ONE SWAN DRIVE

City:SMYRNA

State:TN

Zip:37167

Country:US

Phone:615-459-8900

Cage:0TH10

Name:CUMBERLAND-SWAN, INC

Address:ONE SWAN DRIVE

City:SMYMA

State:TN

Box:129

Zip:37167

Country:US

Phone:615-459-8900

= Item Description Information =

[TOP](#)

Item Manager: S9G

Item Name: HYDROGEN PEROXIDE TOPICAL SOLUTION,USP

Specification Number: NK

Type/Grade/Class: NK

Unit of Issue: BT

Quantitative Expression: NK

UI Container Qty: 1.000 PT

Type of Container: BOTTLE

Ingredients

[TOP](#)

Cas: 7722-84-1

Code: M

RTECS #: MX0900000 Code: M

Name: HYDROGEN PEROXIDE (SARA III)

% Text: 3

Environmental Wt:

Other REC Limits: NOT ESTABLISHED

OSHA PEL: 1 PPM

Code: M

OSHA

Code:

STEL:

ACGIH TLV: 1 PPM; 9192

Code: M

ACGIH N/P

Code:

STEL:

EPA Rpt Qty:

DOT Rpt

Qty:

Ozone Depleting Chemical: N

Cas: 7732-18-5

Code: M

RTECS #: ZC0110000 Code: M

Name: WATER

% Text: 97

Environmental Wt:

Other REC Limits: NOT ESTABLISHED

OSHA	Code:
STEL:	
ACGIH N/P	Code:
STEL:	
DOT Rpt	
Qty:	

TOP

TOP

STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

Other Precautions

DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING.

Fire and Explosion Hazard Information

TOP

Flash Point Method: N/P

Flash Point:

Flash Point Text: NONE

Autoignition Temp:

Autoignition Temp Text: NONE

Lower Limits: N/R

Upper Limits: N/R

Extinguishing Media

ANY BOTTLE SURROUNDED BY FIRE SHOULD BE FLOODED WITH WATER FOR COOLING.

Fire Fighting Procedures

FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRES. USE WATER SPRAY TO COOL NEARBY CONTAINERS.

Unusual Fire/Explosion Hazard

DECOMPOSITION RELEASES OXYGEN WHICH MAY INTENSIFY FIRE.

Control Measures

TOP

Respiratory Protection

NONE NORMALLY REQUIRED. NIOSH APPROVED RESPIRATOR IF EXPOSURE LEVELS ARE EXCEEDED.

Ventilation

LOCAL EXHAUST.

Protective Gloves

NONE NORMALLY REQUIRED

Eye Protection

CHEMICAL SAFETY GOGGLES

Other Protective Equipment

EYE WASH STATION.

Work Hygienic Practices

OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET IN EYES. DO NOT

BREATHE VAPORS OR MISTS.

Physical/Chemical Properties

TOP

HCC: N1

NRC/State LIC No: N/R

Net Prop WT For Ammo: N/R

Boiling Point:

B.P. Text: 214F, 101C

Melt/Freeze Pt:

M.P/F.P Text: UNKNOWN

Decomp Temp:

Decomp Text: UNKNOWN

Vapor Pres: 10.1

Vapor Density: UNKNOWN

Volatile Org Content %:

Spec Gravity: 1.0

VOC Pounds/Gallon:

PH: 6

VOC Grams/Liter:

Viscosity: UNKNOWN

Evaporation Rate & <1 (WATER = 1)

Reference:

Solubility in Water: COMPLETE

Appearance and Odor: COLORLESS, ODORLESS LIQUID.

Percent Volatiles by Volume: 100

Corrosion Rate: UNKNOWN

Reactivity Data

TOP

Stability Indicator: YES

Stability Condition To Avoid: EXCESSIVE HEAT

Materials To Avoid: STRONG REDUCING AGENTS, RUST, DIRT,
ORGANIC MATERIALS WITH A PH ABOVE 4.

Hazardous Decomposition NOT APPLICABLE

Products:

Hazardous Polymerization NO

Indicator:

Conditions To Avoid NOT APPLICABLE

Polymerization:

Toxicological Information

TOP

Toxicological Information: N/P

Ecological Information

TOP

Ecological: N/P

MSDS Transport Information

TOP

Transport Information: N/P

Regulatory Information

[TOP](#)

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

[TOP](#)Other N/P
Information:

HMIS Transportation Information

[TOP](#)

Responsible Party Cage: 0TH10

Trans ID NO: 51733

Product ID: HYDROGEN PEROXIDE 3% SOLUTION

MSDS Prepared Date: 07/10/1990

Review Date: 09/11/1996

MFN: 1

Submitter: D DG

Status C
CD:Article W/O MSDS: N
Radioactivity: N/RTech Entry NOS Shipping Nm:
Form:Net Explosive Weight: N/R
Coast Guard AMMO Code: N/R

Magnetism: N/P

Net Unit Weight: 1.0
POUND
DOD Exemption NUM: N/RAF MMAC Code:
Limited Quantity IND:Multiple KIT Number: 0
Kit Part IND: NKit IND: N
Review IND: YUnit Of Issue: BT
Type Of Container: BOTTLE

Container QTY: 1.000 PT

Additional Data: 3% SOLUTION OF HYDROGEN PEROXIDE,
STABILIZED.

Detail DOT Information

[TOP](#)

DOT PSN Code: ZZZ

Symbols: N/R

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
DOT PSN Modifier:Hazard Class: N/R
DOT Packaging Group: N/R

UN ID Num: N/R

Label: N/R
Special Provision: N/R
Packaging Exception: N/R

Non Bulk Pack: N/R
Max Qty Pass: N/R

Bulk Pack: N/R
Max Qty N/R
Cargo:

Vessel Stow Req: N/R
Water/Ship/Other Req: N/R

Detail IMO Information[TOP](#)

IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION
IMO PSN Modifier:

IMDG Page Number: N/R
UN Hazard Class: N/R

UN Number: N/R
IMO Packaging Group: N/R

Subsidiary Risk Label: N/R
EMS Number: N/R

MED First Aid Guide NUM: N/R

Detail IATA Information[TOP](#)

IATA PSN Code: ZZZ

IATA UN ID NUM: N/R

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF
TRANSPORTATION

IATA PSN Modifier:

IATA UN Class: N/R

Subsidiary Risk N/R
Class:

IATA Label: N/R
UN Packing Group: N/R

Packing Note Passenger: N/R

Max Quant Pass: N/R
Packaging Note Cargo: N/R

Max Quant Cargo: N/R
Exceptions: N/R

Detail AFI Information[TOP](#)

AFI PSN Code: ZZZ

AFI Symbols:

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION
AFI PSN Modifier:

AFI Hazard Class: N/R
AFI Packing Group: N/R

AFI UN ID NUM: N/R

AFI Label: N/R

Special Provisions: N/A

Back Pack Reference: N/A

HMIS HAZCOM Label

TOP

Product ID: HYDROGEN PEROXIDE 3% SOLUTION

Cage: 0TH10

Assigned IND: N

Company CUMBERLAND-SWAN, INC

Name:

Street: ONE SWAN DRIVE

PO Box: 129

City: SMYMA

State: TN

Zipcode: 37167

Country: US

Health Emergency Phone: 615-459-8900

Label Required IND: N

Date Of Label Review: 09/11/1996

Status Code: C

MFG Label NO: N/R

Label Date: 09/11/1996

Year Procured: 1990

Origination Code: F

Chronic Hazard IND: N

Eye Protection IND: YES

Skin Protection IND: N/P

Signal Word: CAUTION

Respiratory Protection IND: N/P

Health Hazard: None

Contact Hazard: None

Fire Hazard: None

Reactivity Hazard: Slight

Hazard And Precautions

N/P

This information is derived from the Hazardous Material Information System which is utilized by the U.S. Department of Defense. IntraWEB, LLC and its Distributors in no manner whatsoever, expressly or implied warrants, states, or intends said information to have any application use or viability by or to any person or persons. Any person utilizing this information should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.



Tri-Art Manufacturing Inc.
4 Harvey Street
Kingston, ON, Canada, K7K 5B9
Telephone: (613) 541-0299
Fax: (613) 541-1765

Solucryl Colours & Mediums

MSDS Preparation Date (mm/dd/yyyy): 07/21/2011

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MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product identifier : **Solucryl Colours & Mediums**

Product Code(s) : Not available.

Product Use : Water-based acrylic paint.

Chemical Family : Mixture.

Manufacturer's name and address:
Tri-Art Manufacturing Inc.
4 Harvey Street
Kingston, ON, Canada
K7K 5B9

Supplier's name and address:
Refer to Manufacturer

Information Telephone # : (613) 541-0299 (9:00 AM to 5:PM EST)

24 Hr. Emergency Tel # : Not available.

SECTION 2 - HAZARDS IDENTIFICATION

Classification : WHMIS information: This product is not a WHMIS controlled product in Canada. It does not meet any of the criteria for a controlled product provided in Part IV of the Controlled Products Regulations (CPR).
OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification: Acute Health Hazard.

Emergency Overview : White or coloured liquid. Mild ammonia odour. Caution! May cause mild transient irritation. Ingestion of large amounts may be harmful.

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : None expected, when used as intended. If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract.

Skin : Direct skin contact may result in little or no irritation. Prolonged contact, may be more irritating.

Eyes : May cause mild transient irritation.

Ingestion : May cause irritation of mouth, throat, and stomach. Swallowing may cause irritation, nausea and vomiting. Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).

Effects of long-term (chronic) exposure

: None known or reported by the manufacturer.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects : See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt. %</u>
Solucryl Colours and Mediums contain the following ingredients:		
Titanium dioxide	13463-67-7	3.00 - 7.00
Propylene glycol	57-55-6	1.50 - 2.50
Solucryl Black also contains the following component:		
Carbon black	1333-86-4	2.00 - 3.00



Solucryl Colours & Mediums

MSDS Preparation Date (mm/dd/yyyy): 07/21/2011

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SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If irritation or symptoms develop, seek medical attention.
- Skin contact** : Remove contaminated clothing and shoes. Wash off with soap and plenty of water. If irritation persists, seek prompt medical attention. Launder clothing before reuse.
- Eye contact** : Immediately flush eyes with running water for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.
- Ingestion** : Do not induce vomiting. Never give anything by mouth if victim is unconscious. Consult a physician.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

- : Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.1200)

- : Non-flammable.

Oxidizing properties

- : None known.

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

Special fire-fighting procedures/equipment

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Use water to cool fire-exposed containers.

Hazardous combustion products

- : Carbon oxides; Sulphur oxides; Nitrogen oxides (NOx); Other unidentified organic compounds.

NFPA Rating

- | | | | |
|-------------|-----------------|----------------|-----------------------|
| 0 - Minimal | 1 - Slight | 2 - Moderate | 3 - Serious |
| Health: 1 | Flammability: 1 | Instability: 0 | Special Hazards: None |

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
- Spill response/cleanup** : Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.
- Prohibited materials** : None known or reported by the manufacturer.
- Special spill response procedures** : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
US CERCLA Reportable quantity (RQ): None reported.

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Wear appropriate protective equipment. Use with adequate ventilation. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from extreme heat and flame. Keep away from incompatibles. Keep containers tightly closed when not in use.



Solucryl Colours & Mediums

MSDS Preparation Date (mm/dd/yyyy): 07/21/2011

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- Storage requirements** : Store in a cool, dry, well ventilated area. Keep away from incompatibles. Inspect periodically for damage or leaks. Do not freeze. Recommended storage temperature: 0 - 30°C (32 - 86°F).
- Incompatible materials** : Oxidizing agents; Reducing agents; Strong acids; Strong bases.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits

<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Solucryl Colours and Mediums contain the following ingredients:				
Titanium dioxide	10 mg/m ³	N/Av	15 mg/m ³ (total dust)	N/Av
Propylene glycol	10 mg/m ³ (AIHA WEEL)	N/Av	N/Av	N/Av
Solucryl Black also contains the following component:				
Carbon black	3.5 mg/m ³	N/Av	3.5 mg/m ³	N/Av

Ventilation and engineering measures

- : Use with adequate ventilation. General room ventilation is normally adequate.

Respiratory protection

- : In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Seek advice from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection

- : None required under normal conditions. For prolonged skin exposure, gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

Eye / face protection

- : Safety goggles or glasses as appropriate for the job.

Other protective equipment

- : An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

General hygiene considerations

- : Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid	Appearance	: White or coloured liquid.
Odour	: Mild ammonia odour.	Odour threshold	: N/Av
pH	: N/Av		
Boiling point	: 100 - 130°C (212 - 266°F)	Specific gravity	: 1.0 - 1.2
Melting/Freezing point	: N/Av	Coefficient of water/oil distribution	: N/Av
Vapour pressure (mmHg @ 20° C / 68° F)	: N/Av	Solubility in water	: Dilutable.
Vapour density (Air = 1)	: N/Av	Evaporation rate (n-Butyl acetate = 1)	: N/Av
Volatile organic Compounds (VOC's)	: N/Av	Volatiles (% by weight)	: N/Av
Flash point	: Non-flammable.		
Flash point Method	: N/Av	Auto-ignition temperature	: N/Av



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Lower flammable limit (% by vol.)

: N/Ap

Upper flammable limit (% by vol.)

: N/Ap

Flame Projection Length

: N/Ap

Flashback observed

: N/Ap

Section 10: Stability And Reactivity

Stability and reactivity : Stable under the recommended storage and handling conditions prescribed.

Hazardous polymerization : Will not occur.

Conditions to avoid : Avoid heat and open flame. Keep away from incompatibles. Keep container tightly closed when not in use.

Materials To Avoid And Incompatibility

: Incompatible materials (see Section 7).

Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Target organs : Eyes, skin, respiratory system and digestive system.

Routes of exposure : *Inhalation:* YES *Skin Absorption:* NO *Skin & Eyes:* YES *Ingestion:* YES

Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Solucryl Colours and Mediums contain the following ingredients:			
Titanium dioxide	> 6820 mg/m ³	> 25,000 mg/kg	> 10,000 mg/kg
Propylene glycol	N/Av	21,800 mg/kg	20,800 mg/kg
Solucryl Black also contains the following component:			
Carbon black	6750 mg/m ³	> 15,400 mg/kg	> 3000 mg/kg

Carcinogenic status : This product contains titanium dioxide, an IARC Group 2B carcinogen. However, the Titanium dioxide used in this product is in a non-respirable form and under normal conditions of use, Titanium dioxide cannot become airborne. The carcinogenic effects of Titanium dioxide are therefore not applicable to this product.
Solucryl Black also contains Carbon black, an IARC 2B carcinogen. However, the Carbon black used in this product is in a non-respirable form and under normal conditions of use, Carbon black cannot become airborne. The carcinogenic effects of Carbon black are therefore not applicable to this product.

Reproductive effects : Not expected to have other reproductive effects.

Teratogenicity : Not expected to be a teratogen.

Mutagenicity : Not expected to be mutagenic in humans. Solucryl Black contains Carbon black. Carbon black is suspected of causing mutations in non-reproductive cells, based on animal data. However, the Carbon black used in this product is in a non-respirable form and under normal conditions of use, Carbon black cannot become airborne. The mutagenic effects of Carbon black are therefore not applicable to this product.

Epidemiology : Not available.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Synergistic materials : Not available.

Irritancy : Slightly irritating.

other important hazards : CNS depression may result from extreme exposures.

Conditions aggravated by overexposure

: Pre-existing skin and respiratory disorders.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.



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Mobility : No data is available on the product itself.
Persistence : No data is available on the product itself.
Bioaccumulation potential : No data is available on the product itself.
Other Adverse Environmental effects
: No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

Handling for Disposal : Handle waste according to recommendations in Section 7.
Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	Not regulated.	Not regulated	none	
TDG Additional information	None.				
49CFR/DOT	None	Not regulated.	Not regulated	none	
49CFR/DOT Additional information	None.				

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): None reported.

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

US State Right to Know Laws:

California Proposition 65: Solucryl Black contains Carbon black. Carbon black is known by the state of California to cause cancer. However, Carbon black is listed when found in unbound, airborne particles of respirable size.

Other U.S. State "Right to Know" Lists: The following chemicals are specifically listed by individual States: titanium dioxide (MA, MN, NJ, PA, RI); Propylene glycol (MN, NJ, PA, RI); Carbon black (CA, MA, MN, NJ, PA, RI).



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International Information:

Canadian WHMIS Classification: Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16 - OTHER INFORMATION

HMIS Rating	:	* - Chronic hazard	0 - Minimal	1 - Slight	2 - Moderate	3 - Serious	
		<i>Health:</i>	*1	<i>Flammability:</i>	1	<i>Reactivity:</i>	0

Legend

: ACGIH: American Conference of Governmental Industrial Hygienists
AIHA: American Industrial Hygiene Association
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
CNS: Central Nervous System
DOT: Department of Transportation
EPA: Environmental Protection Agency
EST: Eastern Standard Time
HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
Inh: Inhalation
IUCID: International Uniform Chemical Information Database
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WEEL: Workplace Environmental Exposure Level
WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2011.
2. International Agency for Research on Cancer Monographs, searched 2011.
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2011 (Chempendium, HSDB, RTECS).
4. Material Safety Data Sheet from manufacturer.
5. US EPA Title III List of Lists - October 2006 version.
6. California Proposition 65 List - May 20, 2011 version.



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DISCLAIMER OF LIABILITY

This Material Safety Data Sheet was prepared by Tri-Art Manufacturing and obtained from supplier information. The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. Tri-Art Manufacturing Inc. disclaims all expressed or implied warranties and assume no responsibilities for the accuracy or completeness of the data contained herein. The data in this MSDS does not apply to use with any other product or in any other process.

This Material Safety Data Sheet may not be changed, or altered in any way without the expressed knowledge and permission of Tri-Art Manufacturing Inc.

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Please direct all enquiries to Tri-Art Manufacturing.

MATERIAL SAFETY DATA SHEET

PRODUCT NAME : **DRYLOK FAST PLUG**
PRODUCT CODE: **80**

HMIS CODES: H F R P
1 0 0

SECTION 1 – MANUFACTURER IDENTIFICATION

MANUFACTURE'S NAME: **UNITED GILSONITE LABORATORIES**
ADDRESS: **1396 JEFFERSON AVENUE**
SCRANTON, PA 18509

EMERGENCY PHONE: **(800) 424-9300**

INFORMATION PHONE: **(570) 344-1202**
NAME OF PREPARER: **R. BARAKO**

DATE REVISED: JUNE 2012
SUPERSEDES: JANUARY 2009

SECTION II – HAZARDOUS INGREDIENTS/SARA III INFORMATION

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE mmHg @TEMP	WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER		
CRYSTALLINE SILICA	14808-60-7	.1 MG/M ³ (1)	.1 MG/M ³ (1)	PROP 65	N/A	40
PORTLAND CEMENT	65997-15-1	15 MG/M ³	10 MG/M ³	NOT ESTAB	N/A	40
HYDRAULIC CALCIUM – ALUMINATE CEMENT	65997-16-2	15 MG/M ³	10 MG/M ³	NOT ESTAB	N/A	15
CALCIUM HYDROXIDE	1305-62-0	5 MG/M ³	2 MG/M ³	NOT ESTAB	N/A	<5

(1) TIME WEIGHTED AVERAGE

No toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372 are present.

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING RANGE: N/A
VAPOR DENSITY: N/A
COATING VOC: N/A
SOLUBILITY IN WATER: NOT SOLUBLE
APPEARANCE AND ODOR: GREY POWDER, ODORLESS

SPECIFIC GRAVITY (H₂O =1): 2.9
EVAPORATION RATE: N/A

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASHPOINT: N/A
FLAMMABLE LIMITS IN AIR BY VOLUME:
EXTINGUISHING MEDIA: NOT COMBUSTIBLE
SPECIAL FIRE FIGHTING PROCEDURES: NONE
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

METHOD USED: N/A
LOWER: N/A
UPPER: N/A

SECTION V – REACTIVITY DATA

STABILITY: PRODUCT IS STABLE. KEEP DRY UNTIL USE.
CONDITIONS TO AVOID: UNINTENTIONAL CONTACT WITH WATER.
INCOMPATIBILITY (MATERIALS TO AVOID): PRODUCT IS ALKALINE IN NATURE. AS SUCH, IT IS INCOMPATIBLE WITH ACIDS, AMMONIUM SALTS AND ALUMINUM METAL.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: WILL NOT OCCUR.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION VI – HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: UNDUE BREATHLESSNESS, WHEEZING, COUGH AND SPUTUM PRODUCTION.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: DUST CAN IRRITATE EYES AND UPPER RESPIRATORY SYSTEM. WHEN MIXED WITH WATER, THE PRODUCT CAN DRY THE SKIN AND CAUSE ALKALI BURNS. HYPERSENSITIVE INDIVIDUALS MAY DEVELOP AN ALLERGIC REACTION.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: (ACUTE) EXPOSURE MAY CAUSE DRYING OF THE SKIN WITH CONSEQUENT MILD IRRITATION. (CHRONIC) WHEN MIXED WITH WATER, PROLONGED DIRECT CONTACT WITH THE SKIN MAY CAUSE MORE SEVERE SKIN EFFECTS, INCLUDING THICKENING, CRACKING OR FISSURING OF THE SKIN.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: INTERNAL DISCOMFORT OR ILL EFFECTS ARE POSSIBLE IF LARGE QUANTITIES OF THE PRODUCT ARE SWALLOWED.

HEALTH HAZARDS (ACUTE AND CHRONIC): (ACUTE) NONE KNOWN. (CHRONIC) PROLONGED EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA (SEE SECTION II) MAY CAUSE DELAYED INJURY (SILICOSIS.)

CARCINOGENICITY: NTP? YES IARC MONOGRAPHS? YES OSHA REGULATED? NO
IARC CONCLUDES THAT THERE IS SUFFICIENT EVIDENCE IN HUMANS AND EXPERIMENTAL ANIMALS FOR THE CARCINOGENICITY OF CRYSTALLINE SILICA IN THE FORMS OF QUARTZ OR CRYSTOBALITE. IARC (GROUP 1) SEE SECTION II.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: INHALATION OF DUST CAN AGGRAVATE RESPIRATORY CONDITIONS.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: IMMEDIATELY FLUSH EYE THOROUGHLY WITH WATER. CONTINUE FLUSHING EYE FOR AT LEAST 15 MINUTES, INCLUDING UNDER LIDS, TO REMOVE ALL PARTICLES. CALL PHYSICIAN.

SKIN: WASH SKIN WITH COOL WATER AND PH – NEUTRAL SOAP OR MILD DETERGENT. SEE A PHYSICIAN IF IRRITATION IS PRESENT.

INGESTION: DO NOT INDUCE VOMITING. IF CONSCIOUS, HAVE THE VICTIM DRINK PLENTY OF WATER AND CALL A PHYSICIAN.

INHALATION: REMOVE PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: USE DRY CLEAN UP METHODS THAT DO NOT DISPERSE THE DUST INTO THE AIR. AVOID BREATHING DUST.

WASTE DISPOSAL METHOD: DISPOSE OF IN APPROVED SITES ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: AVOID BREATHING DUST.

OTHER PRECAUTIONS: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, REPRODUCTIVE OR DEVELOPMENTAL TOXICITY.

SECTIONS VIII – CONTROL MEASURES

RESPIRATORY PROTECTION: USE A NIOSH APPROVED RESPIRATOR FOR DUST PARTICLES.

VENTILATION: USE ADEQUATE VENTILATION IN VOLUME AND PATTERN TO MAINTAIN LEVELS BELOW THAT LISTED IN SECTION II.

PROTECTIVE GLOVES: USE NEOPRENE RUBBER GLOVES TO PREVENT SKIN CONTACT.

EYE PROTECTION: USE SAFETY GOGGLES WITH SIDE SHIELDS TO PREVENT EYE CONTACT.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK / HYGIENIC PRACTICES: WASH HANDS BEFORE EATING, SMOKING OR USING THE BATHROOM. WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION IX – DISCLAIMER

This information is furnished without warranty, representation, inducement or license of any kind, except that it is accurate to the best of UGL's knowledge, or obtained from sources believed by UGL to be accurate, and UGL does not assume any legal responsibility for use or reliance upon same. Before using any product, read the label.



MATERIAL SAFETY DATA SHEET

USG SHEETROCK® Brand Lightweight All Purpose Joint Compound Plus 3™ Ready Mixed

MSDS # 61-370-002

Page 1 of 8

United States Gypsum Company
125 South Franklin Street
Chicago, Illinois 60680-4124
A Subsidiary of USG Corporation

Product Safety: 1 (800) 507-8899

www.usg.com

Version Date: July 6, 2004

Version: 7

SECTION 1 CHEMICAL PRODUCT AND IDENTIFICATION

PRODUCT: USG SHEETROCK® Brand Lightweight All Purpose Joint Compound Plus 3™ Ready Mixed**CHEMICAL FAMILY:** An aqueous mixture of minerals and an emulsion polymer

SECTION 2 COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL	WT%	TLV (mg/m ³)	PEL (mg/m ³)	CAS NUMBER
Limestone	>35	10	15 (T) / 5 (R)	1317-65-3
Or Dolomite		10	15 (T) / 5 (R)	16389-88-1
Or Gypsum (CaSO ₄ •2H ₂ O)		10	15 (T) / 5 (R)	13397-24-5
Water	>40	(NE)	(NE)	7732-18-5
Expanded Perlite	<10	10	15 (T) / 5 (R)	93763-70-3
Vinyl Acetate Polymer	<10	(NE)	(NE)	9003-20-7
Or Ethylene Vinyl Acetate Polymer		(NE)	(NE)	24937-78-8
Attapulgite	<5	(NE)	(NE)	12174-11-7
Crystalline Silica	<2	0.05 (R)	0.1 (R)	14808-60-7

(T) – Total (R) – Respirable (NE) – Not Established mmpfc - million particles per cubic foot of air
Respirable crystalline silica: IARC: Group 1 carcinogen, NTP: Known human carcinogen. The weight percent for silica represents total quartz and not the respirable fraction. Industrial hygiene atmospheric respirable crystalline silica testing during the use and application of USG joint compounds did not detect any concentration of respirable crystalline silica exposure.



Food and Drug Administration [CFR Title 21, v.3, sec 184.1409] – Ground limestone is Generally Recognized as Safe (GRAS).



Food and Drug Administration [CFR Title 21, v.3, sec 184.1230] – Calcium Sulfate is Generally Recognized as Safe (GRAS).

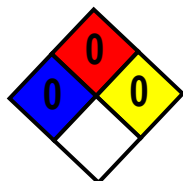
All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory. All components of this product are included in the Canadian Domestic Substances List.

SECTION 3 HAZARD IDENTIFICATION

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings:

Health: 0
Fire: 0
Reactivity: 0



HIMS Ratings:

Health: *0
Fire: 0
Reactivity: 0

HEALTH	*	0
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		E

0 = Minimal Hazard
1 = Slight Hazard
2 = Moderate Hazard
3 = Serious Hazard
4 = Severe Hazard

Personal Protection: Use eye and skin protection. Use NIOSH/MSHA-approved respiratory protection when necessary.

*Respirable crystalline silica can cause lung disease and/or cancer. E- Safety glasses, gloves and dust respirator

EMERGENCY OVERVIEW: This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract.



MATERIAL SAFETY DATA SHEET

USG SHEETROCK® Brand Lightweight All Purpose Joint Compound Plus 3™ Ready Mixed

MSDS # 61-370-002

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SECTION 3 HAZARD IDENTIFICATION (continued)

POTENTIAL HEALTH EFFECTS

ACUTE:

Eyes: Airborne dust during sanding or direct contact can cause mechanical irritation of eyes. If burning, redness, itching, pain or other symptoms persist or develop, consult physician.

Skin: Direct, prolonged or repeated contact with the skin may cause irritation.

Inhalation: Inhalation of dust during sanding can irritate the nose, throat, and the upper respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions such as coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.

Ingestion: If ingested may cause temporary irritation to the gastrointestinal tract, especially the stomach. No known effects.

CHRONIC:

Eyes: None known.

Skin: None known.

Ingestion: No known effects.

Inhalation: Industrial hygiene atmospheric respirable crystalline silica testing during the use and application of USG joint compounds did not detect any concentration of respirable crystalline silica exposure. Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing.

Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.

TARGET ORGANS: Eyes, skin and respiratory system.

PRIMARY ROUTES OF ENTRY: Inhalation, eyes and skin contact.

SECTION 4 FIRST AID MEASURES

FIRST AID PROCEDURES

Eyes: In case of contact, do not rub or scratch your eyes. Flush thoroughly with water for 15 minutes to remove particles. If irritation persists, consult physician.

Skin: Wash with mild soap and water. A commercially available hand lotion may be used to treat dry skin areas. If skin has become cracked, take appropriate action to prevent infection and promote healing. If irritation persists, consult physician.

Inhalation: Remove to fresh air. Leave the area of dust exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.

Ingestion: This product is not intended to be ingested or eaten. No harmful effects expected. No specific recommendations. If gastric disturbance occurs, call physician.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.



MATERIAL SAFETY DATA SHEET

USG SHEETROCK® Brand Lightweight All Purpose Joint Compound Plus 3™ Ready Mixed

MSDS # 61-370-002

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SECTION 5 FIRE FIGHTING MEASURES

General Fire Hazards:	Not expected to burn.		
Extinguishing Media:	Water or use extinguishing media appropriate for surrounding fire.		
Special Fire Fighting Procedures:	Wear appropriate personal protective equipment (See section 8).		
Unusual Fire & Explosion Hazards:	None		
Hazardous Combustion Products:	Above 800° C – limestone may decompose to calcium oxide (CaO) and carbon dioxide (CO ₂). Above 175° C – polyvinyl acetate may decompose to H ₂ O, CO ₂ , CO, and acetic acid, could produce vinyl acetate monomers.		
Flash Point:	None Known	Auto Ignition:	Not Applicable
Method Used:	Not Applicable	Flammability Classification:	Not Applicable
Upper Flammable Limit (UFL):	Not Applicable	Rate of Burning:	Not Applicable
Lower Flammable Limit (LFL):	Not Applicable		

SECTION 6 ACCIDENTAL RELEASE MEASURES

CONTAINMENT:

No special precautions. Wear appropriate personal protection (See Section 8).

CLEAN-UP:

Use normal clean up procedures. Wear appropriate protective equipment. Ventilate area. Floor may be slippery; use care to avoid falling. Shovel or scoop up material from spillage into a waste container for disposal.

DISPOSAL:

Follow all local, state, provincial and federal regulations. Never discharge large releases directly into sewers or surface waters. Trace amounts of residue can be flushed to a drain, using plenty of water.

SECTION 7 HANDLING AND STORAGE

HANDLING:

When sanding, minimize dust generation and accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded (see Sections 2 and 8). Avoid dust contact with eyes. Wear the appropriate eye protection against dust (See Section 8).

Use good safety and industrial hygiene practices.

STORAGE:

Store at room temperature in a dry location.

Protect from freezing, extreme heat, and exposure to direct sunlight.

Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Close container and discard properly.

Keep tightly sealed following use.



MATERIAL SAFETY DATA SHEET

USG SHEETROCK® Brand Lightweight All Purpose Joint Compound Plus 3™ Ready Mixed

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SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:

Provide ventilation sufficient to control airborne dust levels especially respirable crystalline silica.

If user operations generate airborne dust, use ventilation to keep dust concentrations below permissible exposure limits (See Section 2).

Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control dust levels below permissible exposure limits (see Section 2). If engineering controls are not possible, wear a properly fitted NIOSH/MSHA-approved particulate respirator.

RESPIRATORY PROTECTION:

Wear a NIOSH/MSHA-approved respirator equipped with particulate cartridges when dusty in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

OTHER PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face: Wear eye protection (safety glasses or goggles) to avoid particulate irritation of the eye.

Skin: Gloves or protective clothing are usually not necessary but may be desirable in specific work situations. For brief contact, no precautions other than clean body-covering clothing should be needed. Wear gloves and protective clothing to prevent repeated or prolonged skin contact. Barrier creams or skin lotion may be applied to face, neck, wrist and hands when skin is exposed to help prevent drying of skin.

General: Selection of Personal Protective Equipment will depend on environmental working conditions and operations.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Gray to off white	Odor	Low to no odor
Physical State	Paste	pH	~ 7-8.5
Vapor Pressure	17@20 °F	Vapor Density	Same as water
Boiling Point	212 °F	Freezing Point	32 °F
Melting Point	Not Applicable	Solubility (H2O)	Slight, unlimited dispersibility
Specific Gravity	1.3-1.4	Particle Size	99% Finer than 250 microns
Softening Point	Not Applicable	Evaporation Rate	Not Applicable
Viscosity	450-700 Brabender Units at 20 °C	Bulk Density	1.3-1.4 Kg/Litre
Percent Volatile	48-50	Molecular Weight	Mixture
VOC Content	<2 g/l		

SECTION 10

CHEMICAL STABILITY AND REACTIVITY

STABILITY:

Stable.

CONDITIONS TO AVOID:

Contact with incompatibles.

INCOMPATIBILITY:

None known.

HAZARDOUS POLYMERIZATION:

Will not occur.

HAZARDOUS DECOMPOSITION:

Above 800° C – limestone may decompose to calcium oxide (CaO) and carbon dioxide (CO₂). Above 1450° C - decomposes to calcium oxide (CaO) and sulfur dioxide (SO₂). Above 175° C – polyvinyl acetate may decompose to H₂O, CO₂, CO, and acetic acid, could produce vinyl acetate monomers.



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USG SHEETROCK® Brand Lightweight All Purpose Joint Compound Plus 3™ Ready Mixed

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SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:

Direct contact may cause eye, skin and/or respiratory irritation.

LD₅₀: Not Available for product.

LC₅₀: Not Available for product.

CHRONIC EFFECTS / CARCINOGENICITY:

Crystalline silica: Industrial hygiene atmospheric respirable crystalline silica testing during the use and application of USG joint compounds did not detect any concentration of respirable crystalline silica exposure. Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing.

Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.

In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.

IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

Vinyl acetate/acetaldehyde/formaldehyde: A component of this product is a common emulsion polymer most familiar as the component of ordinary white glue which exhibits the "sticky" characteristic. The emulsion polymer is not classified as a carcinogen by IARC, NTP or ACGIH. However, trace amounts of residual vinyl acetate monomers, acetaldehyde and formaldehyde may be associated with the production of the emulsion polymer.

Any exposure to vinyl acetate monomer, acetaldehyde, or formaldehyde is expected to remain well below OSHA regulatory and ACGIH recommended limits during normal handling and use of this product.

Industrial hygiene atmospheric formaldehyde testing during the use and application of USG joint compounds did not detect any concentration of formaldehyde exposure.

SECTION 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: This product has no known adverse effect on the ecology. A large discharge directly into waterways would not be expected to kill aquatic life.

Ecotoxicity value: Not determined.

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose of material in accordance with Federal, State, Provincial, and Local regulations. Consult with environmental regulatory agencies for guidance on acceptable disposal practices. Never discharge directly into sewers or surface waters.



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SECTION 14

TRANSPORT INFORMATION

U.S. DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not classified or regulated.

Shipping Name Same as product name.
Hazard Class: Not classified
UN/NA #: None. Not classified.
Packing Group: None.
Label (s) Required: Not applicable.
GGVSec/MDG-Code: Not classified.
ICAO/IATA-DGR: Not applicable.
RID/ADR: None
ADNR: None

SECTION 15

REGULATORY INFORMATION

UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency's Toxic Substances Control Act Chemical Substance Inventory.

MATERIAL	WT%	302	304	313	CERCLA	CAA Sec. 112	RCRA Code
Limestone	>35	NL	NL	NL	NL	NL	NL
Or Dolomite		NL	NL	NL	NL	NL	NL
Or Gypsum (CaSO ₄ •2H ₂ O)		NL	NL	NL	NL	NL	NL
Water	>40	NL	NL	NL	NL	NL	NL
Expanded Perlite	<10	NL	NL	NL	NL	NL	NL
Vinyl Acetate Polymer	<10	NL	NL	NL	NL	NL	NL
Or Ethylene Vinyl Acetate Polymer		NL	NL	NL	NL	NL	NL
Attapulgite	<5	NL	NL	NL	NL	NL	NL
Crystalline Silica	<2	NL	NL	NL	NL	NL	NL

Key : NL = Not Listed

SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)

SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)

SARA Title III Section 313 (EPCRA) Toxic Chemicals: X= Subject to reporting under section 313

CERCLA Hazardous Substances: Reportable Quantity (RQ)

CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)

RCRA Hazardous Waste: RCRA hazardous waste code



Food and Drug Administration [CFR Title 21, v.3, sec 184.1409] – Ground limestone is Generally Recognized as Safe (GRAS).



Food and Drug Administration [CFR Title 21, v.3, sec 184.1230] – Calcium Sulfate is Generally Recognized as Safe (GRAS).



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SECTION 15 REGULATORY INFORMATION (continued)

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. All components of this product are included in the Canadian Domestic Substances List (DSL).

MATERIAL	WT%	IDL Item #	WHMIS Classification:
Limestone	>35	Not Listed	D2A
Or Dolomite		Not Listed	Not Listed
Or Gypsum (CaSO ₄ •2H ₂ O)		Not Listed	Not Listed
Water	>40	Not Listed	Not Listed
Expanded Perlite	<10	Not Listed	D2A
Vinyl Acetate Polymer	<10	Not Listed	Not Listed
Or Ethylene Vinyl Acetate Polymer		Not Listed	Not Listed
Attapulgite	<5	Not Listed	Not Listed
Crystalline Silica	<2	1406	D2A

IDL Item # : Canadian Hazardous Products Act – Ingredient Disclosure List Item #

WHMIS Classification: Workplace Hazardous Material Information System

CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S)

All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11 : Toxicology Information for detailed information

MATERIAL	IARC	NTP	ACGIH	CAL- 65
Respirable Crystalline Silica	1	1	A2	Listed
Vinyl Acetate Monomer	2B	Not Listed	A3	Not Listed
Acetaldehyde	2B	2	A3	Listed
Formaldehyde	1	2	A2	Listed

IARC – International Agency for Research on Cancer (World Health Organization)

1- Carcinogenic to humans

2A – Probably carcinogenic to humans

2B – Possibly carcinogenic to humans

3 - Not classifiable as a carcinogen

4 – Probably not a carcinogen

NTP – National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS)

1- Known to be carcinogen

2- Anticipated to be carcinogens

ACGIH – American Conference of Governmental Industrial Hygienists

A1 – Confirmed human carcinogen

A2 – Suspected human carcinogen

A3 – Animal carcinogen

A4 - Not classifiable as a carcinogen

A5 – Not suspected as a human carcinogen



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CAL-65 – California Proposition 65 “Chemicals known to the State of California to Cause Cancer”

SECTION 16 OTHER INFORMATION

Label Information

⚠WARNING!

Dust created from product may cause eye, skin, nose, throat or upper respiratory irritation. When sanding, avoid inhalation of dust and eye contact. Use in a well-ventilated area. Wear a NIOSH/MSHA-approved respirator when dusty. Use proper ventilation to reduce dust exposure. Wear eye protection. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call physician. Wash thoroughly with soap and water after use. Do not ingest. If ingested, call physician. Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Close container and discard properly.

Product safety information: (800) 507-8899 or www.usg.com

KEEP OUT OF REACH OF CHILDREN.

Key/Legend

Threshold Limit Value

TLV

Permissible Exposure Limit

PEL

Chemical Abstracts Service (Registry Number)

CAS

National Institute for Occupational Safety and Health

NIOSH

Mine Safety and Health Administration

MSHA

Occupational Health and Safety Administration

OSHA

American Conference of Governmental Industrial Hygienists

ACGIH

International Agency for Research on Cancer

IARC

United States Department of Transportation

DOT

United States Environmental Protection Agency

EPA

National Fire Protection Association

NFPA

Hazardous Materials Identification System

HMIS

Personal Protection Equipment

PPE

Toxic Substances Control Act

TSCA

Canadian Domestic Substances List

DSL

Canadian Non-Domestic Substances List

NDSL

Superfund Amendments and Reauthorization Act of 1986

SARA

Resource Conservation and Recovery Act

RCRA

Comprehensive Environmental Response, Compensation and Liability Act of 1980

CERCLA

United Nations/North America number

UN/NA#

Code of Federal Regulations

CFR

Workplace Hazardous Material Information System

WHMIS

Prepared by:

Product Safety

USG Corporation

125 South Franklin St.

Chicago, Illinois 60606

END

**Foray 76B Flowable Concentrate****SDS# VBC-0076 Revision 0****ISSUED 06/24/15**

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**1.1 Product Identifier****MATERIAL NAME:** Foray 76B Flowable Concentrate**Synonyms:** BioBit XLP, VBC-6431**EPA Reg No.:** 73049-49**Code Number:** 35530**List Number:** 60176**Chemical Family:** Microbial, Btk strain ABTS-351**Substance Registration Number(s)[REACH]:** N/A**1.2 Relevant Identified Uses and Uses Advised Against****Identified Uses:** Agricultural Insecticide**Uses Advised Against:** It is a violation of Federal law to use this product in a manner inconsistent with its FIFRA pesticide labeling.**1.3 Details of the supplier of the Safety Data Sheet****Supplied By:** Valent BioSciences Corporation
870 Technology Way
Libertyville, Illinois 60048**1.4 EMERGENCY TELEPHONE NUMBERS****Emergency Health or Spill:**

Outside the United States: 651-632-6184

Within the United States: 877-315-9819

2. HAZARDS IDENTIFICATION**2.1 Classification of the Substance or Mixture**

Eye Irritation – Category 2B

2.2 Labeling Elements**Symbol(s)**

Symbols not required

Signal Word

WARNING

Hazard Statement(s)

Causes eye irritation

Foray 76B Flowable Concentrate

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Precautionary Statement:**Prevention**

Avoid breathing mist/spray
Wash hands and face thoroughly after handling
Contaminated work clothing should not be allowed out of the workplace
Wear protective clothing/eye protection/face protection
Avoid release to the environment

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/ attention.
IF ON SKIN: Wash with soap and water.
Take off contaminated clothing and wash it before reuse.

Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

Safety

Avoid contact with skin and eyes
In case of contact with skin or eyes, rinse immediately w/ plenty of water and seek medical advice.
Wear suitable protective clothing and eye/face protection

2.3 Other Hazards

None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Component Name	(Classification)	Percent
68038-71-1	Btk Fermentation solids	Not classified	18.44
Trade Secret	Other ingredients	Not classified	81.56

4. FIRST AID MEASURES**4.1 Description of First Aid Measures**

GENERAL: In all cases of doubt, seek medical attention.

EYES: Remove from source of exposure. Flush with copious amounts of water. Remove contact lenses, if present and easy to do, after the first 5 minutes, then continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic /supportive

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[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

care as necessary.

SKIN: Remove from source of exposure. Take off contaminated clothing. Flush with copious amounts of water. Cover irritated skin with an emollient. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

INGESTION: Remove from source of exposure. Move person to fresh air. Do NOT induce vomiting. Give large quantities of water. If signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

INHALATION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. If person is not breathing, call 911, then give artificial respiration.

4.2 Most important Symptoms and Effects, both Acute and Delayed**Acute**

Eye irritation

Delayed

No information on significant adverse effects

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically and supportively

5. FIRE FIGHTING PROCEDURES**5.1 Extinguisher Media****Suitable Extinguisher Media**

Dry chemical, water spray, foam or carbon dioxide. Use appropriate medium for the underlying cause of the fire.

Unsuitable Extinguisher Media

None known

5.2 Specific Hazards Arising from the Chemical

None known

Thermal decomposition products

Carbon oxides, nitrogen oxides

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[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

5.3 Advice to Firefighters**Protective Equipment and precautions for firefighters**

Fire fighter should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection)

Fire & Explosive hazard

Not expected to be flammable.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

Use in a well-ventilated area. Respiratory protection such as a dust mask should be worn during normal product use. Wear eye protection appropriate to handling activities. Wear impervious gloves. Wear appropriate body coverings if contact may occur. Where exposure level is not known, wear respirator protection suitable for expected level of exposure, in addition to the personal protection as recommended in Section 8.

6.2 Environmental Precautions

Keep out of drains, sewers, ditches and waterways. Avoid runoff to waterways and sewers. Dispose of excess product and washwaters according to local regulations.

6.3 Methods and Materials for Containment and Cleaning Up

Ventilate area. Wear appropriate personal protective equipment. Recover product with inert material (earth, sand, vermiculite) and place into appropriate container for disposal. Do not flush to sewer.

6.4 Reference to Other Sections

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

US Regulations may require reporting spills of hazardous materials: See Section 15: REGULATORY INFORMATION for details on reportable quantities, if any.

7. HANDLING AND STORAGE**7.1 Precautions for Safe handling**

Ventilate. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not eat drink or smoke while working with product, obey reasonable safety precautions and practice good housekeeping. For filling operations respiratory protection may be recommended particularly in enclosed areas.

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[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

7.2 Conditions for Safe Storage, Including Incompatibilities

Protect against physical damage. Close containers of unused material. Store in a dry, cool, ventilated place, away from direct sunlight.

Incompatibilities

None Known

7.3 Specific End Use(s)

Agricultural insecticide.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control Parameters****Component Exposure Limits**

None

Derived No Effect Levels (DNELs)

No DNELs available

Predicted No Effect Concentrations (PNECs)

No PNECs available

8.2 Exposure Controls**Appropriate Engineering Controls**

Provide general ventilation. Where adequate general ventilation is unavailable use process enclosure, local exhaust ventilation, or other engineering controls

SKIN PROTECTION:

Wear protective clothing, including boots and gloves. Wear gloves made of Latex or other impervious materials. Wash thoroughly with soap and water after handling.

EYE PROTECTION:

Wear goggles, safety glasses with side shields or full-face shield when splashing or spraying of materials is likely.

RESPIRATORY PROTECTION:

For filling operations if dust/mist is produced respiratory protection is recommended or where respiratory protection is warranted, use dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C or a NIOSH approved respirator with any N, P, R or HE filter). Wash thoroughly with soap and water after handling.

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[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

9. PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on Basic Physical and Chemical Properties

Appearance:	Liquid, pale yellow	Odor:	Yeast like
pH:	4.3 ± 0.1 (10% dilution)	Odor Threshold:	Not determined
Melting Point:	Not Applicable	Boiling Point:	Not Determined
Specific Gravity:	Not Determined	Solubility (H ₂ O):	Not Determined
Octanol/H ₂ O Coeff:	Not Determined	Bulk Density:	1.1 ± 0.1 g/ml
Molecular Weight:	Not Applicable	Evaporation Rate:	Not Applicable
Auto Ignition:	Not Determined	Decomposition Temp.:	Not Determined
Flash Point:	Not Determined; Non-flammable	LFL:	Not Determined
Vapor Density:	Not Determined	UFL:	Not Determined
VOC:	Aqueous	Vapor Pressure:	Not Determined
Kinematic Viscosity:	Not Determined	Flammability Class:	Not flammable
Suspensibility	100%		

10. CHEMICAL STABILITY AND REACTIVITY
10.1 Reactivity

Material does not pose a significant reactivity hazard.

10.2 Chemical Stability

Stable under ordinary conditions of use and storage. Spontaneous reaction not possible.

10.3 Possibility of Hazardous Reactions

Does not undergo hazardous polymerization

10.4 Conditions to Avoid

None known

10.5 Incompatible Materials

None known

10.6 Hazardous Decomposition Products

Carbon oxides and unidentified organic compounds.

11. TOXICOLOGICAL INFORMATION
11.1 Information on Toxicological Effects
Likely Routes of Exposure

Inhalation: Yes
Eye Contact: Yes

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[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

Skin Contact: Yes
Ingestion: Not likely

Product (or TGA) where noted) Toxicology**Acute Effects**

Oral Toxicity: LD₅₀ > 5,050 mg/kg (rat) [EPA Toxicity Category IV]
Dermal Toxicity: LD₅₀ > 2,000 mg/kg (rabbit)
Inhalation Toxicity: LC₅₀ rat (4 hours): > 3.22 mg/L
Corrosiveness: Not corrosive.
Dermal Irritation: Mildly-irritating, [EPA Toxicity Category IV]
Ocular Irritation: Mildly-irritating, (cleared by day-7)
Dermal Sensitization: Not a sensitizer (Lymph node mice)

Mutagenicity Information: Components of this product are not listed as mutagens.

Carcinogenicity Information: Components of this product are not listed as carcinogenic by NTP, IARC or OSHA.

Developmental/Reproductive Toxicity: This material is not teratogenic

Special Target Organ: Eye Irritation.

Aspiration Hazard: Not Applicable

Repeat Dose Studies: Not Applicable, Acute Toxicity testing was all negative

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity (Data for a Concentrated Technical Powder)**

Do not allow into waterways or lakes.

Fish: LC₅₀ > 2.87 x 10⁷ cfu/L (96-H, Rainbow Trout)

Bird: LC₅₀ > 2857 mg/kg (5.7 x 10¹⁰ cfu/kg) each day for 5 days (Sub-Acute Oral (dietary) - Bobwhite Quail)

Invertebrates: EC₅₀ > 50 mg/L (48-Hr) (Daphnia)
21-day NOEC > 5.0 mg/L (Daphnia)

Honeybee: Essentially Nontoxic to honeybee

12.2 Persistence and Degradability

No data available

12.3 Bioaccumulation potential

No data available

12.4 Mobility in Soil

No data available

12.5 Results of PBT and vPvB assessment

Assessments not performed

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[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

12.6 Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS**13.1 Waste Disposal Methods**

Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes.

US EPA WASTE NUMBER & DESCRIPTIONS:

There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.

14. TRANSPORTATION INFORMATION

DOT STATUS: Not regulated by US DOT

UN PROPER SHIPPING NAME: N/A

REMARKS: N/A

IATA/ICA0 STATUS: Not Regulated

PROPER SHIPPING NAME: N/A

REMARKS: N/A

IMDG STATUS: Not Regulated

PROPER SHIPPING NAME: N/A

REMARKS: N/A

15. REGULATORY INFORMATION**15.1 Safety, Health and Environmental Regulations / Specific Legislation**

TSCA STATUS: Exempt

CERCLA STATUS: Not regulated as hazardous

SARA STATUS: Acute: No Chronic: No Fire: No CDT: No

RCRA STATUS: Not regulated as hazardous

State Right-To-Know: Not Listed

Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.

OSHA HAZARD COMMUNICATION STANDARD: Not defined by the OSHA Hazard Communication Standard, 29 CFR

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[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

15.2 EPA Pesticide Regulations

EPA Registration Number: 73049- 49

EPA Pesticide Label signal word: CAUTION

Product must have EPA Approved Pesticide Label attached to or accompanying all containers.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions and limitations for its use.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS****CAUTION**

Harmful if absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

Environmental Hazards**For Ground Application:**

For Terrestrial Uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

No manual application can take place within 300 feet of any threatened or endangered Lepidoptera.

For Aerial Application:

Except under the forest canopy, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

This product must not be applied aurally within ¼ mile of any habitats of threatened or endangered Lepidoptera.

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[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in a cool, dry place. Keep containers tightly closed when not in use. Store in temperatures above freezing and below 25 degrees C (77 degrees F).

Pesticide Disposal: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times. Once cleaned, offer container for recycling, if available. If recycling is not available, puncture and dispose of container in a sanitary landfill or by other procedures approved by state and local authorities.

16. OTHER INFORMATION**NFPA Hazard Ratings**

Health: 1
Flammability: 0
Instability: 0

HMIS Hazard Ratings

Health: 1
Flammability: 0
Instability: 0

0 = Minimal
1 = Slight
2 = Moderate
3 = Serious
4 = Extreme

REASON FOR ISSUE: New GHS rules

APPROVAL DATE: 06/24/15

SUPERSEDES DATE: --/--/--

LEGEND: N/A = Not Applicable

N/L = Not Listed

C = Ceiling

(R) = Registered Trademark of Valent BioSciences Corp.

(TM) = Registered Trademark of Valent BioSciences Corp.

N/D = Not Determined

L = Listed

S = Short-term

The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Valent BioSciences Corporation and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Valent BioSciences Corporation nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the

Foray 76B Flowable Concentrate**SDS# VBC-0076 Revision 0****ISSUED 06/24/15**

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Valent BioSciences Corporation to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.



870 Technology Way
Libertyville, IL 60048 – 800-323-9597

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MATERIAL SAFETY DATA SHEET

For Coatings, Resins and Related Materials

SECTION I - PRODUCT IDENTIFICATION

Manufacturer: Van Aken International
9157 Rochester Court, P.O. Box 1680
Rancho Cucamonga, CA 91729-1680

Information Phone: (909) 980-2001
Emergency Phone: (909) 980-2001

Product Class: Polymer Emulsion
Trade Name: Jazz Gloss Tempera
Product Code: 50000 Series

SECTION II - HAZARDOUS INGREDIENTS

This product is certified by an authority on toxicology associated with a leading university to contain no materials in sufficient quantities to be toxic or injurious to the human body, even if ingested.

This product is not hazardous as defined by 29 CFR 1910.1200 OSHA Hazard Communication

SECTION III - PHYSICAL DATA

Boiling Range: 212 degrees F.

Vapor Density: Lighter than air

Evap. Rate: Slower than ether

Specific Gravity: 1.17

Volatile Volume: 35

Wgt per gallon: 9.5 – 10.0 lbs/gal

Appearance:

Bodied liquid, various colors, faint ester odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: N/A

Flash Point: N/A

Lel: N/A

Extinguishing Media: Water, foam, carbon dioxide

Special Fire Fighting Procedures: None

Unusual Fire & Explosion Hazards: None

SECTION V - HEALTH HAZARD DATA

Primary Route Of Exposure: Inhalation: Yes Skin Absorption: No Ingestion: Yes
Effects Of Overexposure: None known

First Aid:

Ingestion: No first aid is normally required, however, if swallowed and symptoms develop, seek medical attention.

Eye Contact: Flush with cold water, if irritation persists seek medical attention.

Skin Contact: Wash with soap and warm water.

Inhalation: Remove to fresh air.

MATERIAL SAFETY DATA SHEET (page 2)
For Coatings, Resins and Related Materials

SECTION VI - REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Combustion may yield Carbon Monoxide and or Carbon Dioxide.

Incompatibility: None known

Conditions To Avoid: Extreme heat

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Wipe up spills, may use soap and water as necessary for cleaning.

Waste disposal method: In accordance with local, County, State, and Federal regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: Wear approved dust-mist respirator when used in spray application.

Ventilation: Not normally needed

Protective Gloves: Not normally needed

Eye Protection: Not normally needed

Other Protective Equipment: None

SECTION IX – SPECIAL PRECAUTIONS

Precautions to be taken in handling and storage: Store in cool, dry place. Avoid extreme heat

Other Precautions: None.

MSDS prepared : 01-01-08

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. This information and product are furnished on the conditions that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

Common Name: SPRAY DISINFECTANT
Manufacturer: ZEP MANUFACTURING
MSDS Revision Date: 2/4/2010
MSDS Format: No Format Specified

Grainger Item Number(s): 22C670

**Manufacturer Model
Number(s):**

MSDS Table of Contents

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MATERIAL SAFETY DATA SHEET

ZEP
PROFESSIONAL

ZEP INC.
1310 SEABOARD INDUSTRIAL BLVD.
ATLANTA, GA 30318
1-877-793-7776

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ZEP SPRAY DISINFECTANT

PRODUCT USE: AEROSOL DISINFECTANT

PRODUCT CODE: R156

DATE OF ISSUE: 02/04/10

SUPERSEDES:

THIS PRODUCT IS A REGISTERED PESTICIDE. EPA ID NO. 44446-67-1270

EMERGENCY TELEPHONE NUMBERS:

FOR MSDS INFORMATION:

COMPLIANCE SERVICES: 1-877-793-7776

FOR MEDICAL EMERGENCY: (877) 541-2016 TOLL FREE - ALL CALLS RECORDED

FOR TRANSPORTATION EMERGENCY:

CHEMTREC: (800) 424-9300 - ALL CALLS RECORDED

IN THE DISTRICT OF COLUMBIA: (202) 483-7616

PREPARED BY:

COMPLIANCE SERVICES

1420 SEABOARD INDUSTRIAL BLVD.

ATLANTA, GA 30318

SECTION 2. HAZARDS IDENTIFICATION

*HAZARD DETERMINATION SYSTEM (HDS):

HEALTH 1

FLAMMABILITY 3

REACTIVITY 0

EMERGENCY OVERVIEW:

WARNING:

CAUSES EYE IRRITATION. MAY BE HARMFUL IF SWALLOWED.

FLAMMABLE. CONTENTS UNDER PRESSURE.

NOTE:

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINER(S). RISK OF ADVERSE EFFECTS ARE LESSENED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

ACUTE EFFECTS:

ROUTES OF ENTRY: DERMAL CONTACT. EYE CONTACT. INHALATION.

EYES:

CAUSES EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

SKIN:

DIRECT CONTACT MAY CAUSE IRRITATION AND REDNESS. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, OR REDDENING.

INHALATION:

AVOID BREATHING VAPORS, SPRAY OR MISTS. OVER-EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION. CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

INGESTION:

MAY BE HARMFUL IF SWALLOWED. ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

CHRONIC EFFECTS:

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: KIDNEYS, LIVER, CENTRAL NERVOUS SYSTEM (CNS).

CARCINOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

PRODUCT/INGREDIENT NAME: NOT AVAILABLE.

ADDITIONAL INFORMATION: SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

NAME OF HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WEIGHT
ETHANOL; ETHYL ALCOHOL; GRAIN ALCOHOL	64-17-5	53
HYDROCARBON PROPELLANT;	75-28-5	10-20
BLEND OF PROPANE & ISOBUTANE	74-98-6	

SECTION 4. FIRST AID MEASURES

EYE CONTACT:

FLUSH EYES WITH PLENTY OF WATER FOR 15 MINUTES, OCCASIONALLY LIFTING UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. WASH CLOTHING BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION:

MOVE EXPOSED PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF VOMITING OCCURS, THE HEAD SHOULD BE KEPT LOW SO THAT VOMIT DOES NOT ENTER THE LUNGS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF AFFECTED PERSON IS CONSCIOUS, GIVE PLENTY OF WATER TO DRINK. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT:

OPEN CUP: 20 DEG. C (68 DEG. F).

FLAMMABLE LIMITS: NOT AVAILABLE.

FLAMMABILITY: FLAMMABLE. (CSMA)

FIRE HAZARD:

CONTENTS UNDER PRESSURE. CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS OR WHEN HEATED.

FIRE-FIGHTING PROCEDURES:

USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE. COOL CLOSED CONTAINERS EXPOSED TO FIRE WITH WATER.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.):

1

3

0

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP: LARGE SPILLS ARE UNLIKELY DUE TO PACKAGING.

SECTION 7. HANDLING AND STORAGE

HANDLING:

PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME OR ANY OTHER IGNITION SOURCE. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPORS, SPRAY OR MISTS. USE ONLY WITH ADEQUATE VENTILATION. DO NOT INGEST. WASH THOROUGHLY AFTER HANDLING. APPLY THIS PRODUCT ONLY AS SPECIFIED ON THE LABEL.

STORAGE CONTENTS:

UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE OR STORE THE CONTAINER AT TEMPERATURES ABOVE 49 DEG. C (120 DEG. F) OR IN DIRECT SUNLIGHT. KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS. KEEP OUT OF THE REACH OF CHILDREN.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PRODUCT NAME

EXPOSURE LIMITS

ETHANOL; ETHYL ALCOHOL;

ACGIH TLV/OSHA PEL (UNITED STATES).

GRAIN ALCOHOL

TWA: 1000 PPM 8 HOUR(S) .

HYDROCARBON PROPELLANT;
BLEND OF PROPANE & ISOBUTANE

ACGIH TLV/OSHA PEL (UNITED STATES) .
NOTES: PROPANE
TWA: 1000 PPM 8 HOUR(S) .

PERSONAL PROTECTIVE EQUIPMENT (PPE) :
SAFETY GLASSES
GLOVES

EYES: SAFETY GLASSES .

BODY:
FOR PROLONGED OR REPEATED HANDLING, USE GLOVES RECOMMENDED:
NEOPRENE GLOVES. NITRILE GLOVES. RUBBER GLOVES.

RESPIRATORY:
USE WITH ADEQUATE VENTILATION. A RESPIRATOR IS NOT NEEDED UNDER NORMAL AND
INTENDED CONDITIONS OF PRODUCT USE.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID. [AEROSOL.]

COLOR: CLEAR. COLORLESS TO LIGHT YELLOW.

PH: NOT AVAILABLE.

ODOR: FLORAL. PLEASANT.

BOILING POINT: 73.88 DEG. C (165 DEG. F)

VAPOR PRESSURE: 5.9 KPA (44 MM Hg)

SPECIFIC GRAVITY: 0.83

VAPOR DENSITY: 1 [AIR = 1]

SOLUBILITY:
EASILY SOLUBLE IN THE FOLLOWING MATERIALS: COLD WATER AND HOT WATER.

EVAPORATION RATE: >1 (BUTYL ACETATE = 1)

VOC (CONSUMER) :
606.51 (G/L) .
5.06 LBS/GAL
73.2%

SECTION 10. STABILITY AND REACTIVITY

STABILITY AND REACTIVITY: THE PRODUCT IS STABLE.

INCOMPATIBILITY: KEEP AWAY FROM HEAT, SPARKS AND FLAME.

REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS: OXIDIZING MATERIALS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES (CO, CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
ETHANOL	LD50 ORAL	RAT	7060 MG/KG	
	LC50 INHALATION VAPOR	RAT	20000 MG/M3	4 HOURS

SECTION 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

AQUATIC ECOTOXICITY: NOT AVAILABLE.

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE INFORMATION:

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. CONSULT YOUR LOCAL OR REGIONAL AUTHORITIES FOR ADDITIONAL INFORMATION.

WASTE STREAM:

CODE: D001

CLASSIFICATION: [HAZARDOUS WASTE.]

ORIGIN: [RCRA WASTE.]

SECTION 14. TRANSPORT INFORMATION

REGULATORY INFORMATION	UN NUMBER	PROPER SHIPPING NAME	CLASSES	PG*	LABEL
DOT CLASSIFICATION		CONSUMER COMMODITY	ORM-D		
IMDG CLASS	NOT DETERMINED.				

NOTE:

DOT CLASSIFICATION APPLIES TO MOST PACKAGE SIZES. FOR SPECIFIC CONTAINER SIZE CLASSIFICATIONS OR FOR SIZE EXCEPTIONS, REFER TO THE BILL OF LADING WITH YOUR SHIPMENT.

PG*: PACKING GROUP

SECTION 15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:
NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 307: NO PRODUCTS WERE FOUND.

CLEAN WATER ACT (CWA) 311: NO PRODUCTS WERE FOUND.

CLEAN AIR ACT (CAA) 112 REGULATED TOXIC SUBSTANCES: NO PRODUCTS WERE FOUND.

ALL COMPONENTS OF THIS PRODUCT ARE LISTED OR EXEMPT FROM LISTING ON TSCA INVENTORY.

STATE REGULATIONS:

CALIFORNIA PROP 65: NO PRODUCTS WERE FOUND.

SECTION 16. OTHER INFORMATION

TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE NAMED SUPPLIER NOR ANY OF ITS SUBSIDIARIES ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

*NOTE:

HAZARD DETERMINATION SYSTEM (HDS) RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS ALTHOUGH THESE RATINGS ARE NOT REQUIRED ON MSDSS UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HDS RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED PROGRAM TO RELAY THE MEANINGS OF THIS SCALE.

Material Safety Data Sheet



Zep, Inc.
1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
1-877-I-BUY-ZEP (428-9937)
www.zep.com

Section 1. Chemical Product and Company Identification

Product name TRUE BLITZ (AEROSOL)
Product use Aerosol Industrial Degreaser
Product code 0038
Date of issue 12/20/10 **Supersedes** 02/09/09

Emergency Telephone Numbers

For MSDS Information:

Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency

(877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency

CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Prepared By

Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Printing date: 01/05/11

Section 2. Hazards Identification

Emergency overview

*Hazard Determination System (HDS): Health, Flammability, Reactivity

DANGER !

1 4 0

EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING. CAUSES EYE AND SKIN IRRITATION. VAPOR HARMFUL. HARMFUL OR FATAL IF SWALLOWED.

CONTENTS UNDER PRESSURE.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact. Inhalation.

Eyes

Contact may cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin

Direct contact may cause irritation and redness. Skin inflammation is characterized by itching, scaling, or reddening. Product may be dermal absorbed. Defatting properties, may aggravate an existing dermatitis

Inhalation

Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.

Ingestion

Harmful if swallowed. Aspiration hazard if swallowed. Can enter lungs and cause damage. Vomiting increases risk of chemical pneumonia or pulmonary edema caused by aspiration of hydrocarbon solvents.

Chronic effects

Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Repeated or prolonged exposure to the substance can produce damage to kidneys, lungs, liver, heart, brain, central nervous system (CNS), .

Carcinogenicity

Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Product/ingredient name

Not available.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

CAS number

% by Weight

ACETONE; dimethyl ketone

67-64-1

75 - 85

CARBON DIOXIDE

124-38-9

1 - 10

HEPTANE; n-heptane

142-82-5

1 - 10

ETHANOL; ethyl alcohol; grain alcohol

64-17-5

1 - 5

Section 4. First Aid Measures

Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.
Skin Contact	Immediately wash with water and soap and rinse thoroughly. Wash clothing before reuse. Get medical attention if irritation develops.
Inhalation	Move exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	ASPIRATION HAZARD. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)



Flash Point	Closed cup: <-18°C (<0°F) (Tagliabue.)
Flammable Limits	Lower: 1.2% Upper: 6.7%
Flammability	Extremely flammable. (CSMA) Aerosol that may flash back.
Fire hazard	FLAMMABLE LIQUID AND VAPOR. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Bursting aerosol containers may be propelled from a fire at high speed.
Fire-Fighting Procedures	Use dry chemical or CO ₂ . Fire-fighters should wear appropriate protective equipment. Cool containers with water jet in order to prevent pressure build-up, auto-ignition or explosion.

Section 6. Accidental Release Measures

Spill Clean up	Large spills are unlikely due to packaging.
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Section 7. Handling and Storage

Handling	Extremely flammable liquid and vapor. Store and use away from heat, sparks, open flame or any other ignition source. Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Do not ingest. Wash thoroughly after handling. Wash contaminated clothing before reusing. Observe label precautions.
Storage	CONTENTS UNDER PRESSURE. Do not puncture or incinerate. Do not store above the following temperature: 49°C (120.2°F). Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection**Product name**

ACETONE; dimethyl ketone

Exposure limits**ACGIH TLV (United States, 1/2009).**

TWA: 500 ppm 8 hour(s).
TWA: 1188 mg/m³ 8 hour(s).
STEL: 750 ppm 15 minute(s).
STEL: 1782 mg/m³ 15 minute(s).

OSHA PEL 1989 (United States, 3/1989).

TWA: 750 ppm 8 hour(s).
TWA: 1800 mg/m³ 8 hour(s).
STEL: 1000 ppm 15 minute(s).
STEL: 2400 mg/m³ 15 minute(s).

NIOSH REL (United States, 6/2009).

TWA: 250 ppm 10 hour(s).
TWA: 590 mg/m³ 10 hour(s).

OSHA PEL (United States, 11/2006).

TWA: 1000 ppm 8 hour(s).
TWA: 2400 mg/m³ 8 hour(s).

CARBON DIOXIDE

ACGIH TLV (United States).

TWA: 5000 ppm 8 hour(s).
STEL: 30000 ppm 15 minute(s).

HEPTANE; n-heptane

ACGIH TLV (United States, 2/2010).

TWA: 400 ppm 8 hour(s).
TWA: 1640 mg/m³ 8 hour(s).
STEL: 500 ppm 15 minute(s).
STEL: 2050 mg/m³ 15 minute(s).

OSHA PEL 1989 (United States, 3/1989).

TWA: 400 ppm 8 hour(s).
TWA: 1600 mg/m³ 8 hour(s).
STEL: 500 ppm 15 minute(s).
STEL: 2000 mg/m³ 15 minute(s).


NIOSH REL (United States, 6/2009).

TWA: 85 ppm 10 hour(s).
 TWA: 350 mg/m³ 10 hour(s).
 CEIL: 440 ppm 15 minute(s).
 CEIL: 1800 mg/m³ 15 minute(s).
OSHA PEL (United States, 11/2006).
 TWA: 500 ppm 8 hour(s).
 TWA: 2000 mg/m³ 8 hour(s).

ETHANOL; ethyl alcohol; grain alcohol

NIOSH REL (United States, 6/2009).
 TWA: 1000 ppm 10 hour(s).
 TWA: 1900 mg/m³ 10 hour(s).
OSHA PEL (United States, 11/2006).
 TWA: 1000 ppm 8 hour(s).
 TWA: 1900 mg/m³ 8 hour(s).
ACGIH TLV (United States, 1/2009).
 STEL: 1000 ppm 15 minute(s).
OSHA PEL 1989 (United States, 3/1989).
 TWA: 1000 ppm 8 hour(s).
 TWA: 1900 mg/m³ 8 hour(s).

Personal Protective Equipment (PPE)

Eyes	Safety glasses.	
Body	Wear appropriate protective clothing to prevent skin contact. Recommended Viton gloves. Nitrile gloves. Neoprene gloves.	
Respiratory	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.	

Section 9. Physical and Chemical Properties

Physical State	Liquid. [Aerosol.]	Color	Clear , Colorless.
pH	Not applicable	Odor	Solvent / Minty.
Boiling Point	Not available.	Vapor Pressure	Not available.
Specific Gravity	0.772	Vapor Density	>1 [Air = 1]
Solubility	insoluble in water.	Evaporation Rate	8 (butyl acetate = 1)
		VOC (Consumer)	75.14 g/l 0.63 lbs/gal (9.75%)

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Keep away from heat, sparks and flame. Reactive or incompatible with the following materials: oxidizing materials.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	carbon oxides (CO, CO ₂)

Section 11. Toxicological Information

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Acetone	LC50 Inhalation Vapor	Rat	16000 ppm	4 hours
	LD50 Dermal	Rabbit	20000 mg/kg	-
	LD50 Oral	Mouse	9750 mg/kg	-
	LD50 Oral	Rat	5800 mg/kg	-
n-Heptane	LC50 Inhalation Gas.	Mouse	18295 ppm	2 hours
	LC50 Inhalation Vapor	Rat	103 g/m ³	4 hours
	LD50 Oral	Mouse	15000 mg/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	20000 mg/m ³	4 hours
	LD50 Oral	Rat	7 g/kg	-

Section 12. Ecological Information

Environmental Effects	Not available.
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Aquatic Ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
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Product code 0038		Material Safety Data Sheet		Product Name TRUE BLITZ (AEROSOL)	
Acetone	-	Acute LC50 6900 mg/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours	
	-	Acute LC50 5.54 ml/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 1 g	96 hours	
	-	Acute LC50 12600000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours	
	-	Acute LC50 8300000 ug/L Fresh water	Fish - Bluegill - Lepomis macrochirus - 5.3 to 7.2 cm - 3.5 to 3.9 g	96 hours	
	-	Acute LC50 7550000 ug/L Fresh water	Crustaceans - Aquatic sowbug - Asellus aquaticus	48 hours	
	-	Acute LC50 >100000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2 to 0.5 g	96 hours	
	-	Acute LC50 10000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours	
n-Heptane	-	Acute LC50 4924000 ug/L Fresh water	Fish - Western mosquitofish - Gambusia affinis - Adult	96 hours	
	-	Acute LC50 375000 ug/L Fresh water	Fish - Mozambique tilapia - Tilapia mossambica - 99 mm - 10 g	96 hours	
Ethanol	-	Acute EC50 >100 ppm Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours	
	-	Acute EC50 2000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours	
	-	Acute LC50 5680 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours	
	-	Acute LC50 13 ml/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 0.8 g	96 hours	
	-	Acute LC50 13480000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 4 to 8 weeks - 1.1 to 3.1 cm	96 hours	
	-	Acute LC50 10000000 to 11500000 ug/L Marine water	Fish - Bleak - Alburnus alburnus - 8 cm	96 hours	
	-	Acute LC50 5577000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours	
	-	Acute LC50 3715000 ug/L Fresh water	Daphnia - Water flea - Ceriodaphnia dubia - Neonate	48 hours	
	-	Acute LC50 42000 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss	4 days	
	-	Acute LC50 25500 ug/L Marine water	Crustaceans - Brine shrimp - Artemia franchiscana - LARVAE	48 hours	
	-	Chronic NOEC <6.3 g/L Fresh water	Daphnia - Water flea - Daphnia magna	48 hours	

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream

Code: D001

Classification: - [Hazardous waste.]

Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	ORM-D Other regulated materials	Consumer commodity	ORM-D	-	
IMDG Class	Not determined.				

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG* : Packing group

Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

Product name

No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

TSCA 4(a) final test rules: n-Heptane

TSCA 8(a) PAIR: n-Heptane

United States inventory (TSCA 8b): Not determined.

TSCA 12(b) one-time export: n-Heptane

State Regulations**California Prop 65**

WARNING: This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. :
Toluene

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.