

**F**

## MATERIAL SAFETY DATA SHEET

Product Name: F Series Glazes Lead Free Product Code: F Series (1)

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

Information Number: (800) 374-1600 Emergency Number: (800) 374-1600

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### 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, 31, 40, 41, 42, 43, 50, 51, 52, 53, 54, 55, 57, 58, 60, 61, 65, 66, 70, 71 and Class Packs

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### Section II – Hazardous Ingredients

Reportable Components	CAS#	Vapor Pressure Mm Hg @ Temp	Weight Percent
Water	7732-18-4		
Sod. 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.  
No hazardous ingredients. Carries the "AP" Seal. Labeling conforms to ASTM D4236.

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### Section III – Physical / Chemical Characteristics

Boiling Range: NA	Specific Gravity (H <sub>2</sub> O=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	

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### 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.	

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### 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.	

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

Medical Conditions Generally Aggravated by Exposure: Unknown.

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

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#### 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.

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#### 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. Manual available upon request.

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#### Section IX – Disclaimer

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable 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.

## MATERIAL SAFETY DATA SHEET

PRODUCT: F Series Glazes Lead free Copper/Cobalt Product Code: F Series (2)

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 Lead free Copper/Cobalt Product Class: Ceramic Glaze Product Size: 16 oz.

F 26, 27, 47

### Section II – Hazardous Ingredients

Reportable Components	CAS#	Vapor Pressure Mm Hg @ Temp	Weight Percent
Copper Oxide Blend	1317-38-0		5
Copper Oxide – ACGIH TLV 1mg/M3, OSHA PEL 1 mg/M3 @ CU			
Cobalt Silicate Blue Olivine	77364		5.05
Cobalt – ACGIH TLV .02mg/M3, OSHA PEL .10mg/M3 @ CO			
Copper Carbonate	7492-68-4		5
Copper – ACGIH TLV 1mg/M3, OSHA PEL 1 mg/m3 @ CU			
Water	7732-18-5		
Gum	9004-32-4		

Carries the CL/HL Seal. Labeling conforms to ASTM D4236. Contains copper or cobalt. 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

### 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.

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#### Section VI – Health Hazard Data

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Inhalation Health Risks and Symptoms of Exposure: None. Product not for spray application  
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 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 or liver or anemia. If swallowed get prompt medical attention.

Health Hazard (Acute / Chronic): Contains soluble Copper/Cobalt. See above.

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 center for further information.

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#### Section VII – Precautions for Safe Handling

Steps to be taken if material spilled or released: 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 or moist product while not in use or storage. Uncovered product will dry out.

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

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#### Section VIII – Control Measures

Respiratory Protection: Not needed for brush or sponge application.

Ventilation: Not need.

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. Manual available upon request.

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#### Section IX – Disclaimer

Information presented herein has been compiled from sources considered to be dependable and is accurate and reliable 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  
2007



## Fantastik All Purpose Cleaner

Version Number: 1

Preparation date: 2014-06-11

### IDENTIFICATION

**Product name:** Fantastik All Purpose Cleaner  
**Product Code:** 994369, 994368, 92900504  
**SDS #:** MS0800375  
**Recommended use:**

- Industrial/Institutional
- Cleaning product

**Uses advised against:** Uses other than those identified are not recommended

**Manufacturer, importer, supplier:**  
 US Headquarters  
 Diversey, Inc.  
 8310 16th St.  
 Sturtevant, Wisconsin 53177-1964  
 Phone: 1-888-352-2249  
 MSDS Internet Address: [www.diversey.com](http://www.diversey.com)

**Emergency telephone number:** 1-800-851-7145 (U.S.); 1-651-917-6133 (Int'l)

### HAZARD IDENTIFICATION

#### Classification for the undiluted product

Serious eye damage/eye irritation Category 2A

**Signal Word:****Warning**

#### Precautionary Statements

##### **CAUSES SERIOUS EYE IRRITATION.**

Avoid contact with eyes, skin and clothing. Wash affected areas thoroughly after handling. May cause irritation to mouth, throat and stomach. Wear chemical-splash goggles and chemical-resistant gloves. IF SWALLOWED: Rinse mouth. Drink a cupful of milk or water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice/attention. Dispose of in accordance with all federal, state and local applicable regulations. SUPPLEMENTAL INFORMATION: May be mildly irritating to skin. In case of contact, immediately flush with plenty of water. If irritation occurs and persists, get medical attention.

**Health hazards not otherwise classified (HHNOC)** - Not applicable

**Physical hazards not otherwise classified (PHNOC)** - Not applicable

**Classification for the diluted product @ RTU**

This product is intended to be used neat.  
Precautionary Statements

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Classified Ingredients**

Ingredient(s)	CAS #	Weight %
Benzyl alcohol	100-51-6	3% - < 5%
Diethylene glycol monoethyl ether	111-90-0	1% - < 3%
Sodium xylene sulfonate	1300-72-7	1% - < 3%
Alcohol ethoxylates	68439-46-3	1% - < 3%
Sodium hydroxide	1310-73-2	> 0.1% - < 1%

\*Exact percentages are being withheld as trade secret information

**4. FIRST AID MEASURES**

**Undiluted Product:**

**Eyes:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

**Skin:** In case of contact, immediately flush with plenty of water. If irritation occurs and persists, get medical attention.

**Inhalation:** No specific first aid measures are required.

**Ingestion:** IF SWALLOWED: Rinse mouth. Drink a cupful of milk or water.

**Most Important Symptoms/Effects:** No information available.

**Immediate medical attention and special treatment needed:** Not applicable.

**Aggravated Medical Conditions:** None known.

**Diluted Product:**

This product is intended to be used neat.

[Redacted text]

**5. FIRE FIGHTING MEASURES**

**Specific methods:** No special methods required  
**Suitable extinguishing media:** The product is not flammable. Extinguish fire using agent suitable for surrounding fire.  
**Specific hazards:** Not applicable.

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**Extinguishing media which must not be used for safety reasons:** No information available.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Put on appropriate personal protective equipment (see Section 8.).  
**Environmental precautions and clean-up methods:** Clean-up methods - large spillage. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

**7. HANDLING AND STORAGE**

**Handling:** Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

**Storage:** Protect from freezing. Keep tightly closed in a dry, cool and well-ventilated place. KEEP OUT OF REACH OF CHILDREN.

**Aerosol Level (if applicable):** Not applicable

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Exposure Guidelines:

Ingredient(s)	CAS #	ACGIH	OSHA
Benzyl alcohol	100-51-6	-	-
Diethylene glycol monoethyl ether	111-90-0	-	-
Sodium xylene sulfonate	1300-72-7	-	-
Alcohol ethoxylates	68439-46-3	-	-
Sodium hydroxide	1310-73-2	2 mg/m <sup>3</sup> (Ceiling)	2 mg/m <sup>3</sup> (TWA)

### Undiluted Product:

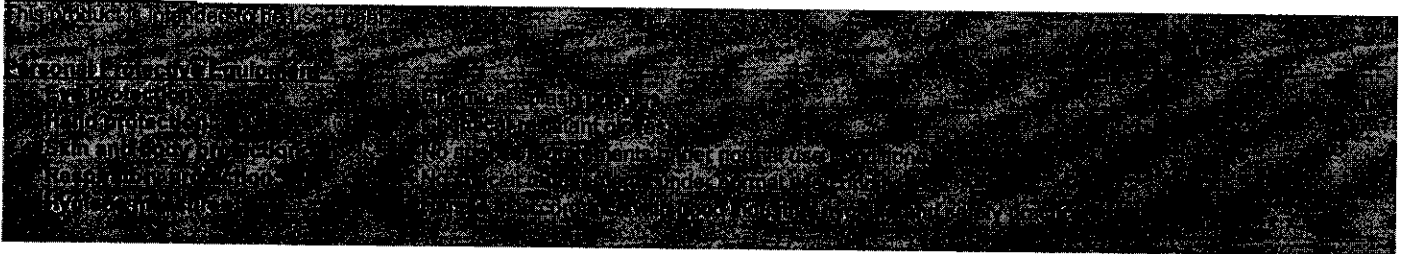
#### Engineering measures to reduce exposure:

No special ventilation requirements General room ventilation is adequate

#### Personal Protective Equipment

Eye protection:	Chemical-splash goggles.
Hand protection:	Chemical-resistant gloves.
Skin and body protection:	No special requirements under normal use conditions.
Respiratory protection:	No special requirements under normal use conditions.
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

### Diluted Product:



## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Liquid

**Evaporation Rate:** No information available

**Odor threshold:** No information available.

**Melting point/range:** Not determined

**Autoignition temperature:** No information available

**Solubility in other solvents:** No information available

**Density:** 8.43 lbs/gal 1.0108 Kg/L

**Bulk density:** No information available

**Flash point:** > 200 °F > 93.3 °C

**Elemental Phosphorus:** 0 % by wt.

**pH:** 12.2

**Metal Corrosion:** Not determined

**Explosion limits:** - upper: Not determined - lower: Not determined

**Color:** Clear, Purple

**Odor:** Fresh

**Boiling point/range:** Not determined

**Decomposition temperature:** Not determined

**Solubility:** Completely Soluble

**Relative Density (relative to water):** 1.0108

**Vapor density:** No information available

**Vapor pressure:** No information available.

**Partition coefficient (n-octanol/water):** No information available

**Viscosity:** No information available

**VOC:** 0.44 % \*

**VOC % by wt. at use dilution:** 0.44 % \*

**Flammability (Solid or Gas):** Not applicable

\* - Title 17, California Code of Regulations, Division 3, Chapter 1, Subchapter 8.5, Article 2, Consumer Products, Sections 94508

## 10. STABILITY AND REACTIVITY

**Reactivity:**

Not Applicable

**Stability:**

The product is stable

**Hazardous decomposition products:**

None reasonably foreseeable.

**Materials to avoid:**

None known.

**Conditions to avoid:**

No information available.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

Eye contact, Skin contact, Inhalation



**Delayed, immediate, or chronic effects and symptoms from short and long-term exposure**

**Skin contact:** May be mildly irritating to skin. Symptoms may include redness and/or transient discomfort.

**Eye contact:** Causes serious eye irritation. Symptoms may include pain, redness, and watering.

**Ingestion:** May be irritating to mouth, throat and stomach. Symptoms may include stomach pain and nausea.

**Inhalation:** May be irritating to nose, throat, and respiratory tract. Symptoms may include coughing and difficulty breathing.

**Sensitization:** No known effects.

**Numerical measures of toxicity**

ATE - Oral (mg/kg): >5000

ATE - Dermal (mg/kg): >5000

ATE - Inhalatory, mists (mg/l): >20

**2. ECOLOGICAL INFORMATION**

**Ecotoxicity:** No information available.

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**3. DISPOSAL CONSIDERATION**

**Waste from residues / unused products:** This product, as sold, if discarded or disposed, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Dispose in compliance with all Federal, state, provincial, and local laws and regulations.

**Contaminated Packaging:** Do not re-use empty containers.

**RCRA Hazard Class (undiluted product):** Not Regulated

**4. TRANSPORT INFORMATION**

**DOT/TDG/IMDG:** Please refer to the Diversey HazMat Library, only available through Internet Explorer, <http://naextranet.diversey.com/dot/>, for up to date shipping information.

**DOT (Ground) Bill of Lading Description:** CLEANING, WASHING, BUFFING, OR POLISHING COMPOUNDS LIQUID

**IMDG (Ocean) Bill of Lading Description:** CLEANING, WASHING, BUFFING, OR POLISHING COMPOUNDS LIQUID

**5. REGULATORY INFORMATION**

**International Inventories at CAS# Level**

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL).

**U.S. Regulations**

**California Proposition 65:** This product is not subject to the reporting requirements under California's Proposition 65.

**RIGHT TO KNOW (RTK)**

Ingredient(s)	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:
Water	7732-18-5	-	-	-	-
Benzyl alcohol	100-51-6	X	-	X	-
Diethylene glycol monoethyl ether	111-90-0	-	X	-	-
Sodium xylene sulfonate	1300-72-7	-	-	-	-
Alcohol ethoxylates	68439-46-3	-	-	-	-
Sodium hydroxide	1310-73-2	X	X	X	X

**CERCLA/ SARA**

Ingredient(s)	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Diethylene glycol monoethyl ether	111-90-0	1% - < 3%			X
Sodium hydroxide	1310-73-2	> 0.1% - < 1%	1000		

Ingredient(s)	CAA HAP	CAA ODS	CWA Priority Pollutants
Diethylene glycol monoethyl ether	X		

**SARA 311/312 Hazard Categories**

Immediate: X  
 Delayed: -  
 Fire: -  
 Reactivity: -  
 Sudden Release of Pressure: -

**Canada**

**16. OTHER INFORMATION**

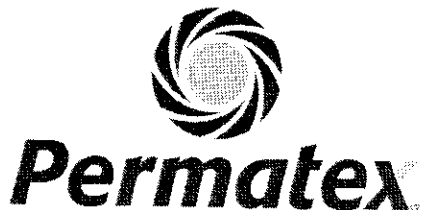
**NFPA**

Health 2  
 Flammability 0  
 Instability 0

Version Number: 1  
 Preparation date: 2014-06-11

Reason for revision: Not applicable  
 Prepared by: NAPRAC  
 Additional advice: • Contains an added fragrance, see "Odor" heading in section 9 for specific description

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# SAFETY DATA SHEET

Revision Date 23-Oct-2015

Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** FAST ORANGE SMOOTH CREAM HAND CLEANER 14 OZ

### Other means of identification

**Product Code** 33013

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Hand Cleaner or Soap - Heavy Duty

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

#### Manufacturer Address

ITW Permatex  
6875 Parkland Blvd.  
Solon, OH 44139 USA

#### Distributor

ITW Permatex Canada  
35 Brownridge Road, Unit 1  
Halton Hills, ON Canada L7G 0C6  
Telephone: (800) 924-6994

**Company Phone Number** 1-87-Permatex  
(877) 376-2839

**24 Hour Emergency Phone Number** Chem-Tel: 800-255-3924  
International Emergency:  
00+1+ 813-248-0585  
Contract Number: MIS0003453

**E-mail address** mail@permatex.com

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

**NOTE: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products.**

### Label elements

#### Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** White

**Physical state** Cream

**Odor** Citrus

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

- May cause sensitization especially in sensitive humans

Unknown acute toxicity 7.3829 % of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**substance(s)**

Chemical Name	CAS No	Weight-%	Trade Secret
WATER	7732-18-5	60 - 100	*
ETHOXYLATED C11-C16 ALCOHOL	127036-24-2	<3	*
CASTOR OIL	8001-79-4	<3	*
PROPYLENE GLYCOL	57-55-6	<2	*
D-LIMONENE	5989-27-5	<2	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES**

**Description of first aid measures**

- General advice** Get medical advice/attention if you feel unwell.
- Eye contact** 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.
- Skin contact** None under normal use conditions.
- Inhalation** None under normal use conditions.
- Ingestion** IF SWALLOWED: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
- Self-protection of the first aider** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** See section 2 for more information.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Carbon dioxide (CO2), Dry chemical, Foam

**Unsuitable extinguishing media**

None.

**Specific hazards arising from the chemical**

None in particular.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**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.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with eyes.

**Environmental precautions**

**Environmental precautions** Do not flush into surface water or sanitary sewer system. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Ensure adequate ventilation. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep from freezing.

**Incompatible materials** Strong oxidizing agents

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls**

**Engineering Controls** Eyewash stations

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** None under normal use conditions.

**Respiratory protection** None under normal use conditions.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state** Cream  
**Appearance** White  
**Odor** Citrus  
**Odor threshold** No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	6.0-8.5	
Melting point / freezing point	No information available	
Boiling point / boiling range	> 38 °C / >100 °F	
Flash point	> 95 °C / > 203 °F	
Evaporation rate	< 1	Butyl acetate = 1
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	>1	Air = 1
Relative density	0.95	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

### Other Information

**Softening point** No information available  
**Molecular weight** No information available  
**VOC Content (%)** <1%  
**Density** No information available  
**Bulk density** No information available

## 10. STABILITY AND REACTIVITY

**Reactivity**  
No data available

**Chemical stability**  
Stable under recommended storage conditions

**Possibility of Hazardous Reactions**  
None under normal processing.

**Conditions to avoid**  
Excessive heat. Keep from freezing.

**Incompatible materials**

Strong oxidizing agents

**Hazardous Decomposition Products**

Carbon oxides

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Inhalation** None under normal use conditions.  
**Eye contact** Contact with eyes may cause irritation. May cause redness and tearing of the eyes.  
**Skin contact** None under normal use conditions.  
**Ingestion** Ingestion may cause irritation to mucous membranes.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
WATER 7732-18-5	> 90 mL/kg ( Rat )	-	-
PROPYLENE GLYCOL 57-55-6	= 20000 mg/kg ( Rat )	= 20800 mg/kg ( Rabbit )	-
D-LIMONENE 5989-27-5	= 4400 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Sensitization** No information available.  
**Germ cell mutagenicity** No information available.  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
D-LIMONENE 5989-27-5	-	Group 2A	-	X

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 305036 mg/kg  
 ATEmix (dermal) 337536 mg/kg

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

8.3656 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
PROPYLENE GLYCOL 57-55-6	19000: 96 h Pseudokirchneriella subcapitata mg/L EC50	51600: 96 h Oncorhynchus mykiss mg/L LC50 static 41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50	1000: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna mg/L EC50
D-LIMONENE 5989-27-5	-	35: 96 h Oncorhynchus mykiss mg/L LC50 0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through	-

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

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

**Contaminated packaging** Do not reuse container.

**US EPA Waste Number** Not applicable

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
D-LIMONENE 5989-27-5	Toxic

**14. TRANSPORT INFORMATION**

**DOT**

Proper shipping name: Not regulated

**IATA**

Proper shipping name: Not regulated

**IMDG**

Proper shipping name: Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Not Listed.
ENCS	Not Listed.
IECSC	Complies
KECL	Not Listed.
PICCS	Complies
AICS	Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances



AICS - Australian Inventory of Chemical Substances

**US Federal Regulations**

**SARA 313**

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	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (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

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
PROPYLENE GLYCOL 57-55-6	X	-	X
LANOLIN 8006-54-0	-	-	X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**WHMIS Hazard Class**

Non-controlled

<b><u>NFPA</u></b>	Health hazards 1	Flammability 1	Instability 0	-
<b><u>HMIS</u></b>	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection B

NFPA (National Fire Protection Association)  
HMIS (Hazardous Material Information System)

Revision Date 23-Oct-2015

**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 a 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.

End of Safety Data Sheet

# MATERIAL SAFETY DATA SHEET

NPCA 1-82

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

## Section I

MANUFACTURER'S NAME RICH ART COLOR COMPANY, INC.

DATE OF PREP NOVEMBER 1997

STREET ADDRESS 202 PEGASUS AVENUE

CITY, STATE, AND ZIP CODE NORTHVALE, N.J. 07647

EMERGENCY TELEPHONE NO 201-767-0009

PRODUCT CLASS WATER BASED PAINT

INFORMATION TELEPHONE NO 201-767-0009

TRADE NAME FINGER PAINT

MANUFACTURER'S CODE IDENTIFICATION  
FP (XX)

ALL SHADES

## Section II—HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	OCCUPATIONAL EXPOSURE LIMITS	VAPOR PRESSURE	TOXICITY DATA
CONTAINS NON-HAZARDOUS PIGMENTS & BINDERS IN WATER	NOT APPLICABLE		NOT APPLICABLE	
CONFORMS TO ASTM D-4236				
	CAS#			
WATER	(7732-18-5)	90-94%		
ACRYLIC POLYMERS	Not Available	3.3-3.6%		
GLUCOSE	(8029-43-4)	.4%		
ATTAPULGITE	(8031-18-3)	1.2-1.3%		
TETRASODIUM PYROPHOSPHATE	(7722-88-5)	.7%		

## Section III—PHYSICAL DATA

BOILING RANGE 212°F	VAPOR DENSITY <input checked="" type="checkbox"/> GREATER	<input type="checkbox"/> LIGHTER THAN AIR
EVAPORATION RATE <input type="checkbox"/> FASTER <input checked="" type="checkbox"/> SLOWER THAN ETHER	PERCENT VOLATILE BY VOLUME	WEIGHT PER GALLON

## Section IV—FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION OSHA NOT REGULATED FLASH POINT NOT APPLICABLE LEL NOT APPLICABLE  
 DOT NON-COMBUSTIBLE

EXTINGUISHING MEDIA  FOAM  ALCOHOL FOAM  CO<sub>2</sub>  DRY CHEMICAL  WATER FOG  OTHER

UNUSUAL FIRE AND EXPLOSION HAZARDS

PRODUCT WILL NOT BURN, BUT MAY SPATTER IF TEMPERATURE EXCEEDS THE BOILING POINT

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### Section V—HEALTH HAZARD DATA

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EFFECTS OF OVEREXPOSURE Inhalation: None Known.

Skin Contact: Prolonged or repeated contact may cause skin irritation.

Eye Contact: Direct contact with product may cause eye irritation.

EMERGENCY AND FIRST AID PROCEDURES Eye Contact: Promptly & thoroughly wash eyes with water for 15 minutes. Consult a physician if irritation persists.  
Skin Contact: Wash thoroughly with soap & water. Wash clothing before reuse.

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### Section VI—REACTIVITY DATA

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STABILITY  UNSTABLE  STABLE CONDITIONS TO AVOID NOT APPLICABLE

INCOMPATIBILITY (Materials to avoid) NOT APPLICABLE

HAZARDOUS DECOMPOSITION PRODUCTS

NOT APPLICABLE

HAZARDOUS POLYMERIZATION  MAY OCCUR  WILL NOT OCCUR

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### Section VII—SPILL OR LEAK PROCEDURES

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

MIX WITH ABSORBENT MATERIALS

WASTE DISPOSAL METHOD

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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### Section VIII—SPECIAL PROTECTION INFORMATION

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RESPIRATORY PROTECTION NOT NECESSARY.

VENTILATION NOT NECESSARY

PROTECTIVE GLOVES NOT NECESSARY

OTHER PROTECTIVE EQUIPMENT NONE

EYE PROTECTION PRUDENT CARE, GLASSES OR GOGGLES IF DESIRED.

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### Section IX—SPECIAL PRECAUTIONS

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP FROM FREEZING.

OTHER PRECAUTIONS

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# SAFETY DATA SHEET

## Fleckstone/ Stone Touch

According to Regulation (EC) No 1907/2006

**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

PRODUCT NAME	Fleckstone/ Stone Touch
PRODUCT NO.	A9434-9464B
APPLICATION	Speciality Paint
SUPPLIER	Plasti-Kote Ltd. PO Box 867, Pampisford, Cambridge, CB22 3XP T : 44 (0) 1223 836400 F : 44 (0) 1223 836686 sds@plasti-kote.co.uk
EMERGENCY TELEPHONE	+44(0)1223 836400 (08:30am to 16:00pm Monday-Friday)

**2 HAZARDS IDENTIFICATION**

Extremely flammable. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION F+;R12. N;R51/53.

**ENVIRONMENT**

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

**PHYSICAL AND CHEMICAL HAZARDS**

Pressurised container: Must not be exposed for temperatures above 50°C. The product is extremely flammable, and explosive vapour/air mixtures may be formed even at normal room temperatures.

**HUMAN HEALTH**

In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification
NAPHTHA (PETROLEUM), HYDROTREATED HEAVY	265-150-3	64742-48-9	10-30%	Xn;R65. R10,R66.
QUARTZ (CRYSTALLINE SILICA)		14808-60-7	10-30%	-
NAPHTHA (PETROLEUM), LIGHT ALKYLATE	265-068-8	64741-66-8	5-10%	Xn;R65. Xi;R38. F;R11. N;R50/53. R67.
BUTANE	203-448-7	106-97-8	5-10%	F+;R12
TITANIUM DIOXIDE PIGMENT	236-675-5	13463-67-7	1-5%	-
IRON OXIDE	215-168-2	1309-37-1	< 1%	-

The Full Text for all R-Phrases are Displayed in Section 16

**4 FIRST-AID MEASURES**

# Fleckstone/ Stone Touch

## GENERAL INFORMATION

Move the exposed person to fresh air at once.

### INHALATION

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

### INGESTION

Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention if any discomfort continues.

### SKIN CONTACT

Wash skin with soap and water. Get medical attention if any discomfort continues.

### EYE CONTACT

Immediately rinse with water. Continue to rinse for at least 15 minutes. Make sure to remove any contact lenses from the eyes before rinsing. Get medical attention promptly if symptoms occur after washing.

## 5 FIRE-FIGHTING MEASURES

### EXTINGUISHING MEDIA

Water spray, foam, dry powder or carbon dioxide.

### SPECIAL FIRE FIGHTING PROCEDURES

Use water spray to reduce vapours. Aerosol cans may explode in a fire. Cool aerosol containers exposed to heat with water spray and remove container, if no risk is involved.

### UNUSUAL FIRE & EXPLOSION HAZARDS

Extremely flammable. Forms explosive mixtures with air. May explode in a fire. Vapours are heavier than air and may spread near ground to sources of ignition.

### SPECIFIC HAZARDS

Pressurised container: Must not be exposed for temperatures above 50°C.

## 6 ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.

### ENVIRONMENTAL PRECAUTIONS

Avoid discharge into drains.

### SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers. Provide ventilation and confine spill. Do not allow runoff to sewer.

## 7 HANDLING AND STORAGE

### USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Read and follow manufacturer's recommendations. Avoid inhalation of vapours and spray mists. Do not spray on a naked flame or any incandescent material. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

### STORAGE PRECAUTIONS

Extremely flammable. Store at moderate temperatures in dry, well ventilated area. Keep away from heat, sparks and open flame. Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

# Fleckstone/ Stone Touch

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
BUTANE	WEL	600 ppm	1450 mg/m3	750 ppm	1810 mg/m3	
IRON OXIDE	WEL		5 mg/m3		10 mg/m3	as Fe
QUARTZ (CRYSTALLINE SILICA)	WEL		0,1 mg/m3			
TITANIUM DIOXIDE PIGMENT	WEL		4 mg/m3			

WEL = Workplace Exposure Limit.

## RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit. In case of inadequate ventilation use suitable respirator.

## HAND PROTECTION

For prolonged or repeated skin contact use suitable protective gloves.

## EYE PROTECTION

Wear approved chemical safety goggles where eye exposure is reasonably probable.

## HYGIENE MEASURES

When using do not eat, drink or smoke. Wash promptly if skin becomes wet or contaminated.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Aerosol		
COLOUR	Varying		
ODOUR	of solvents		
PHYSICAL DATA	Information given concerns the major ingredient. 23 Flammable gas.		
COMMENTS			
FLASH POINT (°C)	<-40°C	AUTO IGNITION TEMPERATURE (°C)	410-580
FLAMMABILITY LIMIT - LOWER(%)	1.8%	FLAMMABILITY LIMIT - UPPER(%)	9.5%

## 10 STABILITY AND REACTIVITY

### STABILITY

Highly volatile.

### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

## 11 TOXICOLOGICAL INFORMATION

### SKIN CONTACT

Skin irritation is not anticipated when used normally. Repeated exposure may cause skin dryness or cracking.

### EYE CONTACT

Spray and vapour in the eyes may cause irritation and smarting.

### HEALTH WARNINGS

In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Arrhythmia, (deviation from normal heart beat).

### ROUTE OF ENTRY

Inhalation.

### TARGET ORGANS

Central nervous system. Respiratory system, lungs.

### MEDICAL SYMPTOMS

Narcotic effect. Vapours may cause drowsiness and dizziness.

# Fleckstone/ Stone Touch

**12 ECOLOGICAL INFORMATION**

**ECOTOXICITY**

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment. Dangerous for the environment if discharged into watercourses. Do not allow to enter drains, sewers or watercourses.

**13 DISPOSAL CONSIDERATIONS**

**DISPOSAL METHODS**

Make sure containers are empty before discarding (explosion risk). Do not puncture or incinerate even when empty. Dispose of waste and residues in accordance with local authority requirements.

**14 TRANSPORT INFORMATION**



PROPER SHIPPING NAME	AEROSOLS (IATA: Aerosols, flammable)		
UN NO. ROAD	1950	ADR CLASS NO.	2, 5F
ADR CLASS	Class 2.1: Flammable gases.	ADR PACK GROUP	-
TUNNEL RESTRICTION CODE	(E)	ADR LABEL NO.	2.1
RID CLASS NO.	2, 5F	RID PACK GROUP	-
UN NO. SEA	1950	IMDG CLASS	2.1
IMDG PACK GR.	-	EMS	F-D, S-U
UN NO. AIR	1950	AIR CLASS	2.1
AIR PACK GR.	-		

**15 REGULATORY INFORMATION**

**LABELLING**



Extremely Flammable



Dangerous for the environment

**RISK PHRASES**

R12	Extremely flammable.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**SAFETY PHRASES**

S2	Keep out of the reach of children
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/spray.
S29	Do not empty into drains.
S51	Use only in well-ventilated areas.

# Fleckstone/ Stone Touch

- A1 Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
- A2 Do not spray on a naked flame or any incandescent material.

## UK REGULATORY REFERENCES

Health and Safety at Work Act 1974. Chemicals (Hazard Information & Packaging) Regulations.

## EU DIRECTIVES

Dangerous Preparations Directive 1999/45/EC. Aerosol directive 75/324/EEC as amended by 94/01/EEC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

## STATUTORY INSTRUMENTS

Control of Substances Hazardous to Health. The Aerosol Dispensers Regulations 1977 and 1997.

## APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. British Aerosol Manufacturers Association Standard

## 16 OTHER INFORMATION

REVISION DATE 05-01-2009

## RISK PHRASES IN FULL

- NC Not classified.
- R10 Flammable.
- R11 Highly flammable.
- R12 Extremely flammable.
- R38 Irritating to skin.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful; may cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

## DISCLAIMER

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



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**SAFETY DATA SHEET**

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**Section 1: IDENTIFICATION**

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**1.1 PRODUCT IDENTIFIER**

**Product Name:** FlexBond®-LFT Premium Crack Prevention Large Format Tile Mortar  
**Product Code:** Not Available

**1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE**

**Product Use:** Mortar

**1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEETS**

**Name/Address:** Custom Building Products  
Five Concourse Parkway, Suite 1900  
Atlanta, GA 30328

**Telephone Number:** 1-(800)-282-8786

**1.4 EMERGENCY TELEPHONE NUMBER**

**Emergency Telephone Number:** INFOTRAC 1-800-535-5053 (US and Canada)  
INTERNATIONAL + 1-352-323-3500

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**Section 2: HAZARD(S) IDENTIFICATION**

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**2.1 CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) OF 29 CFR 1910.1200 (OSHA HAZCOM2012)**

<b>Skin Corrosion</b>	<b>Category 1C</b>
<b>Serious Eye Damage</b>	<b>Category 1</b>
<b>Skin Sensitization</b>	<b>Category 1B</b>
<b>Specific Target Organ Toxicity—Single Exposure</b>	<b>Category 3</b>
<b>Specific Target Organ Toxicity—Repeated Exposure</b>	<b>Category 1</b>
<b>Carcinogenicity</b>	<b>Category 1A</b>

**2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM2012**

**2.2a SIGNAL WORD:**  
DANGER!

**2.2b HAZARD STATEMENTS**

Causes severe skin burns and eye damage  
Causes serious eye damage  
May cause an allergic skin reaction  
May cause respiratory irritation  
Causes damage to lungs through prolonged or repeated inhalation of dust  
May cause cancer through inhalation of dust

## SAFETY DATA SHEET

### 2.2c HAZARD PICTOGRAMS



### 2.2d PRECAUTIONARY STATEMENTS

<b>i. PREVENTION</b>	Wash hands thoroughly after handling. Do not breathe dust. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear impervious gloves/protective clothing/eye protection.
<b>ii. RESPONSE</b>	If on skin (or hair): Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. 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 inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. If exposed or concerned: get medical advice/attention.
<b>iii. STORAGE</b>	Store in a well-ventilated place. Store locked up. Keep container tightly closed.
<b>iv. DISPOSAL</b>	Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

### 2.3 ADDITIONAL INFORMATION

#### 2.3a HNOC – HAZARDS NOT OTHERWISE CLASSIFIED

Not Applicable

#### 2.3b UNKNOWN ACUTE TOXICITY

<1% of the mixture consists of ingredient(s) of unknown acute toxicity.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 MIXTURES

Chemical Name	CAS Number	Weight %
Crystalline Silica, Quartz	14808-60-7	40 – 70%*
Portland Cement	65997-15-1	15 – 40%*
Calcium Carbonate	1317-65-3	3 – 7%*

\*Means that the component will fall into one of the ranges specified due to batch-to-batch variability and to protect Confidential Business Information.

## Section 4: FIRST-AID MEASURES

## SAFETY DATA SHEET

### 4.1 DESCRIPTION OF THE FIRST-AID MEASURES

ROUTES OF EXPOSURE	DESCRIPTION
<b>Eye Contact:</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.
<b>Skin Contact:</b>	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
<b>Inhalation:</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
<b>Ingestion:</b>	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

### 4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

ROUTES OF EXPOSURE	DESCRIPTION
<b>Eye Contact:</b>	Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
<b>Skin Contact:</b>	Causes severe skin burns. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact.
<b>Inhalation:</b>	May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.
<b>Ingestion:</b>	May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

<b>Note to Physicians:</b>	Symptoms may not appear immediately.
<b>Specific Treatments:</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

## Section 5: FIRE-FIGHTING MEASURES

### 5.1 FLAMMABILITY

**Flammability:** Not Flammable/Not Combustible by WHMIS/OSHA HAZCOM2012 Criteria

### 5.2 EXTINGUISHING MEDIA

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## SAFETY DATA SHEET

**5.2a. Suitable Extinguishing Media:**  
Treat for surrounding material.

**5.2b. Unsuitable Extinguishing Media:**  
Not Available

### 5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

**5.3a. Products of Combustion:**  
May include, and are not limited to: oxides of carbon and hydrogen sulfide

**5.3b. Explosion Data**

- i. **Sensitivity to Mechanical Impact:**  
Not Available
- ii. **Sensitivity to Static Discharge:**  
Not Available

### 5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear(full bunker gear) and respiratory protection (SCBA).

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## Section 6: ACCIDENTAL RELEASE MEASURES

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### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

**Methods for Containment:** Recover all usable material. Pick up large pieces, and then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Cleaning-Up:** Vacuum or sweep material and place in a disposal container. Dispose of unwanted material properly in accordance with all local, regional, national and international regulations.

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## Section 7: HANDLING AND STORAGE

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### 7.1 PRECAUTIONS FOR SAFE HANDLING

**Handling:** Use in well-ventilated areas. Wear impervious gloves and eye protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe dust. Do not take internally.

**General Hygiene Advice:** Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

## SAFETY DATA SHEET

### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

**Storage:** Keep out of the reach of children. Store locked up. Keep container tightly closed. Store at room temperature and keep containers closed when not in use. Keep dry until use.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETER

#### Exposure Guidelines:

Occupational Exposure Limits		
Chemical Name	OSHA-PEL	ACGIH-TLV
Crystalline Silica, Quartz	0.05 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup> (Resp.)
Portland Cement	5 mg/m <sup>3</sup> (Resp.) 15 mg/m <sup>3</sup> (Total)	10 mg/m <sup>3</sup> (Resp.)
Calcium Carbonate	5 mg/m <sup>3</sup> (Resp.) 15 mg/m <sup>3</sup> (Total)	5 mg/m <sup>3</sup> (Resp.)

### 8.2 EXPOSURE CONTROLS

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

### 8.3 INDIVIDUAL PROTECTION MEASURES

#### 8.3a. Personal Protective Equipment:

- i. **Eye/Face Protection:** Wear approved eye/face protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]
- ii. **Skin Protection:**
  1. **Hand Protection:** Wear impervious gloves, such as nitrile.
  2. **Body Protection:** Wear suitable protective clothing.
- iii. **Respiratory Protection:** A NIOSH approved respirator or filtering face piece, such as N95, is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators 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) and ANSI's standard for respiratory protection (Z88.2).
- iv. **General Health and Safety Measures:** Handle according to established industrial hygiene and safety practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, color, etc.):</b>	Solid Powder (Gray Or White)
<b>Odor:</b>	Characteristic
<b>Odor Threshold:</b>	Not Available

## SAFETY DATA SHEET

<b>pH:</b>	10.0 – 12.5 when wet
<b>Melting point/Freezing point:</b>	Not Available
<b>Initial boiling point and boiling range:</b>	Not Available
<b>Flash point:</b>	>212°F(>100°C)
<b>Evaporation rate (Water=1):</b>	Not Available
<b>Flammability:</b>	Not Flammable/Not Combustible
<b>Upper Flammability/Explosive Limit:</b>	Not Available
<b>Lower Flammability/Explosive Limit:</b>	Not Available
<b>Vapor Pressure</b>	Not Available
<b>Vapor Density:</b>	Not Available
<b>Relative Density:</b>	2.0 – 3.0 g/mL
<b>Solubility in Water:</b>	Slightly Soluble
<b>Partition coefficient: n-octanol/water:</b>	Not Available
<b>Auto-ignition temperature:</b>	Not Available
<b>Decomposition Temperature:</b>	Not Available
<b>Viscosity (cps):</b>	Not Available
<b>VOC Content:</b>	0 g/L

### Section 10: STABILITY AND REACTIVITY

**10.1. REACTIVITY**

No dangerous reaction known under conditions of normal use.

**10.2. CHEMICAL STABILITY**

Stable under normal storage conditions. Keep dry in storage.

**10.3. POSSIBILITY OF HAZARDOUS REACTION**

No dangerous reaction known under conditions of normal use.

**10.4. CONDITIONS TO AVOID**

Heat. Incompatible materials.

**10.5. INCOMPATIBLE MATERIALS**

Strong acids. Strong Oxidizers.

**10.6. HAZARDOUS DECOMPOSITION PRODUCTS**

Upon decomposition, this product may yield oxides of carbon and hydrogen sulfide.

### Section 11: TOXICOLOGICAL INFORMATION

**11.1. LIKELY ROUTES OF EXPOSURE:**

Skin contact, skin absorption, eye contact, inhalation, and ingestion.

**11.2. SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:**

**Eye Contact:** Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin Contact:** Causes severe skin burns. Handling can cause dry skin,

## SAFETY DATA SHEET

discomfort, irritation, and dermatitis. May cause sensitization by skin contact.

**Inhalation:** May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.

**Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

Acute Toxicity(ATE <sub>mix</sub> = 6,879 mg/kg)		
Chemical Name	LC50	LD50
Crystalline Silica, Quartz	Not Available	Oral: >10,000 mg/kg, rat
Portland Cement	Not Available	Oral: >5,000 mg/kg, rat
Calcium Carbonate	Not Available	Oral: >5,000 mg/kg, rat

Carcinogenicity	
Chemical Name	Chemical Listed as Carcinogens or Potential Carcinogen (NTP,IARC,OSHA,ACGIH,CP65)
Crystalline Silica, Quartz	N-2, I-1, O-1, ACGIH-A2, CP65
Portland Cement	ACGIH-A4
Calcium Carbonate	Not Listed

### 11.3. DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT AND LONG-TERM EXPOSURE

SHORT-TERM	
<b>Skin Corrosion/Irritation:</b>	Causes severe skin burns
<b>Serious Eye Damage/Irritation:</b>	Causes serious eye damage
<b>Respiratory Sensitization:</b>	Not Classified
<b>Skin Sensitization:</b>	May cause an allergic skin reaction
<b>STOT-Single Exposure:</b>	May cause respiratory irritation
<b>Aspiration Hazard:</b>	Not Classified
LONG-TERM	
<b>Carcinogenicity:</b>	May cause cancer through inhalation of dust
<b>Germ Cell Mutagenicity:</b>	Not Classified
<b>Reproductive Toxicity:</b>	Not Classified
<b>STOT-Repeated Exposure:</b>	Causes damage to lungs through prolonged or repeated inhalation of dust
<b>Synergistic/Antagonistic Effects:</b>	Not Classified

## Section 12: ECOLOGICAL INFORMATION

### 12.1. ECOTOXICITY

May cause long-term adverse effects to the aquatic environment. Keep from entry into sewers and waterways.

Ecotoxicity		
Chemical Name	EC50/NOEC-48 Hours	LC50/NOEC-96 Hours
Crystalline Silica, Quartz	Not Available	Not Available
Portland Cement	Not Available	Not Available

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Calcium Carbonate	Not Available	Not Available
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**12.2. PERSISTENCE AND DEGRADABILITY**

Not Available

**12.3. BIOACCUMULATIVE POTENTIAL**

Not Available

**12.4. MOBILITY IN SOIL**

Not Available

**12.5. OTHER ADVERSE EFFECTS**

Not Available

### Section 13: DISPOSAL CONSIDERATIONS

**13.1. DISPOSAL METHOD**

Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

**13.2. OTHER DISPOSAL CONSIDERATIONS**

Not Available

### Section 14: TRANSPORT INFORMATION

DOT (U.S.)	TDG (CANADA)	IATA
<b>UN NUMBER:</b>  Not Regulated	<b>UN NUMBER:</b>  Not Regulated	<b>UN NUMBER:</b>  Not Regulated
<b>UN PROPER SHIPPING NAME:</b>  Not Regulated	<b>UN PROPER SHIPPING NAME:</b>  Not Regulated	<b>UN PROPER SHIPPING NAME:</b>  Not Regulated
<b>TRANSPORT HAZARD CLASS (ES):</b>  Not Regulated	<b>TRANSPORT HAZARD CLASS (ES):</b>  Not Regulated	<b>TRANSPORT HAZARD CLASS (ES):</b>  Not Regulated
<b>PACKING GROUP (if applicable):</b>  Not Regulated	<b>PACKING GROUP (if applicable):</b>  Not Regulated	<b>PACKING GROUP (if applicable):</b>  Not Regulated

**SUMMARY: Product is NOT regulated under DOT/TDG and other transportation regulations.**

**14.1. ENVIRONMENTAL HAZARDS**

Not Available

**14.2. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE**

Not Available



## SAFETY DATA SHEET

### 14.3. SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.

### Section 15: REGULATORY INFORMATION

#### 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE CHEMICAL


**Canada:** This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

**US:** SDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200) HazCom 2012

#### 15.2. US FEDERAL INFORMATION:

CHEMICAL NAME	SARA TITLE III			
	SECTION 302 (EHS) TPQ (LBS)	SECTION 304 EHS RQ (LBS)	CERCLA RQ (LBS)	SECTION 313 (TRI)
Crystalline Silica, Quartz	Not Listed	Not Listed	Not Listed	Not Listed
Portland Cement	Not Listed	Not Listed	Not Listed	Not Listed
Calcium Carbonate	Not Listed	Not Listed	Not Listed	Not Listed

#### 15.3. US STATE RIGHT TO KNOW LAWS:

<b>California Proposition 65:</b>	 <b>WARNING:</b> This product can expose you to chemicals including crystalline silica which is known to the State of California to cause cancer and hexavalent chromium compounds which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .
<b>Other U.S. States "Right to Know" Lists:</b>	Silica, Quartz: <b>CAS#14808-60-7</b> Portland Cement: <b>CAS#65997-15-1</b> Calcium Carbonate: <b>CAS#1317-65-3</b> Gypsum: <b>CAS#13397-24-5</b> Calcium Difomate: <b>CAS#544-17-2</b>

#### 15.4. GLOBAL INVENTORIES

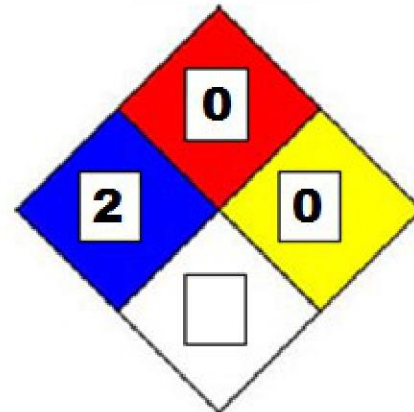
Chemical Name	USA TSCA	Canada DSL/NDSL
Crystalline Silica, Quartz	Yes	DSL
Portland Cement	Yes	DSL
Calcium Carbonate	Yes	NDSL

## SAFETY DATA SHEET

### 15.5. NFPA AND HMIS RATINGS:












<b>HEALTH HAZARD</b> <b>4</b> EXTREME - Highly toxic - May be fatal on short-term exposure. <b>3</b> SERIOUS - Toxic - Full protective suit and breathing apparatus should be worn. <b>2</b> MODERATE - Breathing apparatus and face mask must be worn. <b>1</b> SLIGHT - Breathing apparatus may be worn. <b>0</b> MINIMAL - No precautions necessary.	<b>FLAMMABILITY HAZARD</b> <b>4</b> EXTREME - Downey flammable gas or liquid, Flash Point below 73°F. <b>3</b> SERIOUS - Flammable, Flash Point 73°F to 300°F. <b>2</b> MODERATE - Combustible, Requires moderate heating to ignite, Flash Point below 200°F. <b>1</b> SLIGHT - Slightly combustible, Requires strong heating to ignite. <b>0</b> MINIMAL - Will not burn under normal conditions.
<b>SPECIFIC HAZARD</b>  OXIDIZER <b>OX</b> ACID <b>AC</b> ALKALI <b>ALK</b> CORROSIVE <b>CR</b> Use NO WATER <b>W</b> RADIATION <b>R</b>	<b>INSTABILITY HAZARD</b> <b>4</b> EXTREME - Explosive at room temperature. <b>3</b> SERIOUS - May detonate if shocked or heated under confinement or mixed with water. <b>2</b> MODERATE - Unstable, May react with water. <b>1</b> SLIGHT - May react if heated or mixed with water. <b>0</b> MINIMAL - Normally stable, Does not react with water.

**NFPA**



**HMIS**

Hazard Index	
<b>4</b>	<b>Severe Hazard</b>
<b>3</b>	<b>Serious Hazard</b>
<b>2</b>	<b>Moderate Hazard</b>
<b>1</b>	<b>Slight Hazard</b>

<b>2</b> HEALTH	<b>PROTECTIVE EQUIPMENT INDEX</b>	
<b>0</b> FLAMMABILITY	<b>A</b> 	<b>G</b> 
<b>0</b> REACTIVITY	<b>B</b> 	<b>H</b> 
<b>E</b> PERSONAL PROTECTION	<b>C</b> 	<b>I</b> 
	<b>D</b> 	<b>J</b> 
	<b>E</b> 	<b>K</b> 
	<b>F</b> 	<b>X</b> Ask your supervisor for special handling instructions.

### 15.6. SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

<b>CP65</b>	California Proposition 65
<b>OSHA (O)</b>	Occupational Safety and Health Administration
<b>ACGIH (G)</b>	American Conference of Governmental Industrial Hygienists <ul style="list-style-type: none"> <li>• A1 – Confirmed human carcinogen</li> <li>• A2 – Suspected human carcinogen</li> <li>• A3 – Animal carcinogen</li> <li>• A4 – Not classifiable as a human carcinogen</li> <li>• A5 – Not suspected a human carcinogen</li> </ul>
<b>IARC (I)</b>	International Agency for Research on Cancer <ul style="list-style-type: none"> <li>• 1 – The agent (mixture) is carcinogenic to humans</li> </ul>

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	<ul style="list-style-type: none"> <li>• 2A – The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.</li> <li>• 2B – The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.</li> <li>• 3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.</li> <li>• 4 – The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.</li> </ul>
<b>NTP (N)</b>	National Toxicology Program <ul style="list-style-type: none"> <li>• 1 – Known to be carcinogens</li> <li>• 2 – Reasonably anticipated to be carcinogens</li> </ul>

### Section 16: OTHER INFORMATION

**Date of Preparation:** June 16, 2014

**Version:** 3.0

**Revision Date:** November 9, 2020

**Disclaimer:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

**Prepared by:** Custom Building Products  
 Phone: (800)-282-8786  
[www.custombuildingproducts.com](http://www.custombuildingproducts.com)

## End of Safety Data Sheet

## SAFETY DATA SHEET

Revision Date: 16-Jun-2020

Revision Number: 6

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** FLOOR & PATIO LATEX ENAMEL LOW SHEEN DECK GRAY  
**Product Code** N12271  
**Alternate Product Code** N12271  
**Product Class** Water thinned paint  
**Color** Gray  
**Recommended use** Paint  
**Restrictions on use** No information available

**Manufacturer**  
Benjamin Moore & Co.  
101 Paragon Drive  
Montvale, NJ 07645  
Phone: 1-866-708-9180  
www.benjaminmoore.com

**Emergency Telephone**  
CHEMTREC (US): 800-424-9300  
CHEMTREC (outside US): (703)-527-3887

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Carcinogenicity

Category 2

#### Label elements

##### Warning

##### Hazard statements

Suspected of causing cancer



**Appearance** liquid

**Odor** little or no odor

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other information**

No information available

**Other hazards**

**CAUTION:** All floor coatings may become slippery when wet. Where non-skid characteristics are desired, use an appropriate anti-slip aggregate.

**3. COMPOSITION INFORMATION ON COMPONENTS**

Chemical name	CAS No.	Weight-%
Barium sulfate	7727-43-7	10 - 15
Titanium dioxide	13463-67-7	10 - 15
Carbon black	1333-86-4	0.1 - 0.5

**4. FIRST AID MEASURES**

<b>General Advice</b>	No hazards which require special first aid measures.
<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Consult a physician if necessary.
<b>Most Important Symptoms/Effects</b>	None known.
<b>Notes To Physician</b>	Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific Hazards Arising From The Chemical</b>	Closed containers may rupture if exposed to fire or extreme heat.
<b>Sensitivity to mechanical impact</b>	No
<b>Sensitivity to static discharge</b>	No
<b>Flash Point Data</b>	
Flash point (°F)	Not applicable
Flash Point (°C)	Not applicable
Method	Not applicable
<b>Flammability Limits In Air</b>	
Lower flammability limit:	Not applicable
Upper flammability 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](http://www.nfpa.org).*

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.
<b>Other Information</b>	Prevent further leakage or spillage if safe to do so.
<b>Environmental precautions</b>	See Section 12 for additional Ecological Information.
<b>Methods for Cleaning Up</b>	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or
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sanding dust. In case of insufficient ventilation, wear suitable respiratory equipment.

**Storage** Keep container tightly closed. Keep out of the reach of children.

**Incompatible Materials** No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL
Barium sulfate	TWA: 5 mg/m <sup>3</sup> inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica	15 mg/m <sup>3</sup> - TWA 5 mg/m <sup>3</sup> - TWA
Titanium dioxide	TWA: 10 mg/m <sup>3</sup>	15 mg/m <sup>3</sup> - TWA
Carbon black	TWA: 3 mg/m <sup>3</sup> inhalable particulate matter	3.5 mg/m <sup>3</sup> - 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

<b>Appearance</b>	liquid
<b>Odor</b>	little or no odor
<b>Odor Threshold</b>	No information available
<b>Density (lbs/gal)</b>	10.5 - 10.9
<b>Specific Gravity</b>	1.26 - 1.30
<b>pH</b>	No information available
<b>Viscosity (cps)</b>	No information available
<b>Solubility(ies)</b>	No information available
<b>Water solubility</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Wt. % Solids</b>	45 - 55
<b>Vol. % Solids</b>	30 - 40
<b>Wt. % Volatiles</b>	45 - 55
<b>Vol. % Volatiles</b>	60 - 70
<b>VOC Regulatory Limit (g/L)</b>	< 50

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
Method	Not applicable
Flammability (solid, gas)	Not applicable
Upper flammability limit:	Not applicable
Lower flammability limit:	Not applicable
Autoignition Temperature (°F)	No information available
Autoignition Temperature (°C)	No information available
Decomposition Temperature (°F)	No information available
Decomposition Temperature (°C)	No information available
Partition coefficient	No information available

## 10. STABILITY AND REACTIVITY

Reactivity	Not Applicable
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

### Product Information

#### Information on likely routes of exposure

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

#### Acute Toxicity

**Product Information** No information available

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Eye contact** May cause slight irritation.  
**Skin contact** Substance may cause slight skin irritation. Prolonged or repeated contact may dry skin and cause irritation.  
**Inhalation** May cause irritation of respiratory tract.  
**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.



<b>Sensitization</b>	No information available
<b>Neurological Effects</b>	No information available.
<b>Mutagenic Effects</b>	No information available.
<b>Reproductive Effects</b>	No information available.
<b>Developmental Effects</b>	No information available.
<b>Target organ effects</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Other adverse effects</b>	No information available.
<b>Aspiration Hazard</b>	No information available

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	3325 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	10.3 mg/L

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Barium sulfate 7727-43-7	= 307000 mg/kg ( Rat )	-	-
Titanium dioxide 13463-67-7	> 10000 mg/kg ( Rat )	-	-
Carbon black 1333-86-4	> 15400 mg/kg ( Rat )	> 3 g/kg ( Rabbit )	-

**Chronic Toxicity**

**Carcinogenicity**

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

Chemical name	IARC	NTP	OSHA
Titanium dioxide	2B - Possible Human Carcinogen		Listed
Carbon black	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**

IARC - International Agency for Research on Cancer  
NTP - National Toxicity Program  
OSHA - Occupational Safety & Health Administration

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity Effects**

The environmental impact of this product has not been fully investigated.

**Product Information**

**Acute Toxicity to Fish**

No information available

**Acute Toxicity to Aquatic Invertebrates**

No information available

**Acute Toxicity to Aquatic Plants**

No information available

**Persistence / Degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility in Environmental Media**

No information available.

**Ozone**

No information available

**Component Information**

**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. 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**

**TSCA: United States** Yes - All components are listed or exempt.  
**DSL: Canada** 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-%</u>	<u>CERCLA/SARA 313 (de minimis concentration)</u>
Barium sulfate	7727-43-7	10 - 15	1.0

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

This product contains the following HAPs:

None

**US State Regulations**

**California Proposition 65**

 **WARNING:** Cancer and Reproductive Harm– [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov)

**State Right-to-Know**

<b>Chemical name</b>	<b>Massachusetts</b>	<b>New Jersey</b>	<b>Pennsylvania</b>
Barium sulfate	X	X	X
Titanium dioxide	X	X	X
Carbon black	X	X	X

**Legend**

X - Listed

**16. OTHER INFORMATION**

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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.*

**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](http://www.epa.gov/lead).

**Prepared By** Product Stewardship Department  
Benjamin Moore & Co.  
101 Paragon Drive  
Montvale, NJ 07645  
800-225-5554

**Revision Date:** 16-Jun-2020  
**Revision Summary** Not available

Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, provincial, and local laws and regulations.

**End of Safety Data Sheet**

# CON-LUX MATERIAL SAFETY DATA

PAGE 1

## SECTION I

DATE: 03/21/96

MANUFACTURER'S NAME: CON-LUX Coatings.

A Product of THE SHERWIN-WILLIAMS COMPANY.

STREET ADDRESS: 226 Talmadge Rd. Edison, NJ 08818-0847

EMERGENCY TELEPHONE NOS:

Monday-Friday / 8:30am - 5:00pm: 908-287-4000

Off hours, Weekends, & Holidays: CHEMTREC 800-424-9300

PRODUCT CLASS: ALKYD-POLYURETHANE ENAMEL

TRADE NAME: FLOOR-GUARD 100 SERIES

## SECTION II - HAZARDOUS INGREDIENTS

INGREDIENTS	! % !	! BY !	OEL	! LEL !	! VAP !	! mmHg !	! 20C !
TITANIUM DIOXIDE (AS NUISANCE DUST) CAS NO. 13463-67-7	!>1% !	!10mg/m3 !	ACGIH-TLV	! !	! !	! !	! 0. !
	! !	!10mg/m3 !	OSHA-PEL	! !	! !	! !	! !
LIGHT AROMATIC NAPHTHA CAS NO. 64742-95-6	!>1% !	!300 ppm !	OSHA_PEL	!1.0 !	! !	! !	! 3. !
CALCIUM CARBONATE (AS NUISANCE DUST) CAS NO. 1317-65-3	!>1% !	!10 mg/m3 !	ACGIH-TLV	! !	! !	! !	! 0. !
	! !	!15mg/m3 !	OSHA-PEL	! !	! !	! !	! !
MINERAL SPIRITS CAS NO. 8052-41-3	!>1% !	!100ppm !	OSHA-PEL	!1.0 !	! !	! !	! 2. !
	! !	!100ppm !	ACGHI-TLV	! !	! !	! !	! !

\* Material Regulated Under SARA Title III, Section 313

## SECTION III - PHYSICAL DATA

BOILING RANGE: 148 - 323F  
EVAPORATION RATE: SLOWER THAN ETHER

VAPOR DENSITY: HEAVIER THAN AIR  
% VOLATILE WEIGHT PER  
BY VOLUME: 50.78 GALLON 9.00

# CON-LUX MATERIAL SAFETY DATA

PRODUCT CODE 100 S

PAGE 2

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY: COMBUSTIBLE LIQUID  
LEL: SEE SECTION II

FLASH POINT: 105°F TCC

### EXTINGUISHING MEDIA:

Foam, CO<sub>2</sub>, Dry Chemical, Water Mist.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Contains flammable solvent. DO NOT use in areas where sparks or open flames are present.

### SPECIAL FIRE FIGHTING PROCEDURES:

Smother flames with one of the above extinguishing media. Water may be used to cool down unopened containers in vicinity.

## SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE See Section II

### EFFECTS OF OVEREXPOSURE:

ACUTE: Irritation of eyes and skin may occur with overexposure. Continued breathing of vapors may irritate respiratory tract causing headache, nausea and dizziness.

CHRONIC: Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

### EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Restore respiration if necessary. Treat symptomatically.

EYE CONTACT: Flush immediately with copious quantities of water for 15 minutes minimum. Consult a physician.

DERMAL CONTACT: Wash affected areas with soap and water. Remove contaminated clothing. Consult physician if irritation persists.

INGESTION: Drink 1 or 2 glasses of water to dilute DO NOT INDUCE VOMITING. If spontaneous vomiting occurs keep head at or below knee level to prevent aspiration into lungs. Consult physician or poison control center immediately.

PRIMARY ROUTES OF ENTRY: Inhalation and dermal contact

### TARGET ORGAN EFFECTS:

May Affect:

DERMAL SYSTEM  
NERVOUS SYSTEM

PULMONARY SYSTEM

# CON-LUX MATERIAL SAFETY DATA

PRODUCT CODE 100 S

PAGE 3

## SECTION VI - REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY (Materials to avoid):

Oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:

May produce hazardous fumes when heated.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

Extreme heat, sparks  
or open flames.

## SECTION VII - SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Wear appropriate personal protection equipment and approved respirator. Prevent material from contacting any water sources or sewers leading to surface waters.

WASTE DISPOSAL: Dispose of in accordance with Federal, state and local regulations.

## SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: In outdoor or open areas, where sufficient ventilation has been determined to exist, a respirator is generally not required. In restricted ventilation areas, a NIOSH/MSHA approved organic vapor respirator is recommended. During spray application, a respirator providing both organic vapor and spray mist protection is recommended unless engineering controls are adequate.

VENTILATION: In confined spaces mechanical ventilation is required to keep the air contaminant concentration below current applicable OSHA permissible exposure units.

PROTECTIVE GLOVES: Impervious type required for long or repeated overexposure.

EYE PROTECTION: Use safety eye wear to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Prevent prolonged skin contact with contaminated clothing.

HYGIENIC PRACTICES: Wash hands before eating, smoking or using washroom facilities.

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SECTION IX - SPECIAL PRECAUTIONS  
-----

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in areas designed to comply with ANSI/NFPA 30 Flammable and Combustible Liquids Code.

OTHER PRECAUTIONS: Ground containers when pouring liquids and powders to avoid static charge build up. Do not handle until manufacturers safety precautions have been read and understood. Provide adequate ventilation or respiratory protection to remove decomposition products during welding or flame cutting coated surfaces.

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To the best of our knowledge, the information contained herein is accurate. However, CON-LUX Coatings, Inc. assumes no 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 health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.





# SAFETY DATA SHEET

Revision Date 05/20/2015

## 1. IDENTIFICATION

### Product identifier

**Product Name** Fluid Film® Aerosol (AS)  
**Product Type** Liquid, lubricant, Corrosion inhibitor

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Corrosion inhibitor, lubricant

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** Eureka Chemical Company  
**Supplier Address** 234 Lawrence Ave  
South San Francisco, CA 94080  
US  
**Supplier Phone Number** Phone: 650-761-3536  
Fax: 650-589-1943  
Contact Phone: 1-650-761-3536  
**Supplier Email** info@fluid-film.com

**Emergency telephone number** Chemtrec (800) 424-9300

## 2. HAZARDS IDENTIFICATION


### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Flammable Aerosols	Category 1
--------------------	------------

### GHS Label elements, including precautionary statements

#### Emergency Overview

<b>Signal word</b>	Danger		
<b>Hazard Statements</b>	Extremely flammable aerosol		
			
<b>Appearance</b>	Straw-colored liquid	<b>Physical State</b>	Liquid spray Aerosol
		<b>Odor</b>	Mild piney odor

**Precautionary Statements - Prevention**

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Use personal protective equipment as required.  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Pressurized container: Do not pierce or burn, even after use.  
 Do not spray on an open flame or other ignition source.

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F

**Precautionary Statements - Disposal**

Product should be disposed of via authorized waste disposal contractors in accordance with all local and national regulations.

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

No information available.

**Other information**

No information available.

**Interactions with Other Chemicals**

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Refined petroleum oil, hydrotreated heavy paraffinic	64742-54-7	40 - 80	*
Petroleum gases, liquified, sweetened	68476-86-8	1 - 25	*
Calcium petroleum sulfonate	61789-86-4	1 - 10	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

**First aid measures****General Advice**

Show this safety data sheet to the doctor in attendance.

**Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes, also under the eyelids. If symptoms persist, call a physician.

**Skin Contact**

Wipe excess material from the skin with a cloth, followed by washing with soap and water. A waterless skin cleanser is beneficial in removing the material from the skin. In the case of skin irritation or allergic reactions, see a physician.

**Inhalation**

If respiratory symptoms develop, remove to fresh air. If symptoms persist, call a physician.

**Ingestion**

Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

**Self-protection of the first aider**

Ensure that medical personnel are aware of the material(s) involved.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms and Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO<sub>2</sub>). Foam.

**Unsuitable Extinguishing Media**

DO NOT EXTINGUISH A LEAKING GAS FIRE UNLESS LEAK CAN BE STOPPED.

**Specific Hazards Arising from the Chemical**

Some may burn but none ignite readily. Ruptured cylinders may rocket.

**Uniform Fire Code** Aerosols: Level III

**Hazardous Combustion Products**

Carbon oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** Yes.

**Protective equipment and precautions for firefighters**

Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Stop leak if you can do it without risk.

**Other Information** Ventilate the area.

**Environmental Precautions**

**Environmental Precautions** Prevent entry into waterways, sewers, basements or confined areas.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Do not puncture or incinerate cans. Contents under pressure. Avoid breathing vapors or mists. Avoid contact with eyes. Keep away from open flames, hot surfaces and sources of ignition.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers.

**Incompatible Products** None known based on information supplied.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Refined petroleum oil, hydrotreated heavy paraffinic 64742-54-7	TWA: 5 mg/m <sup>3</sup> , as oil mist, mineral STEL: TWA: 10 mg/m <sup>3</sup> , as oil mist, mineral	TWA: 5 mg/m <sup>3</sup> , as oil mist, mineral	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

**Appropriate engineering controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** No special protective equipment required. Use chemical eye goggles in tanks and confined spaces.

**Skin and Body Protection** Wear protective gloves and protective clothing.

**Respiratory Protection** No protective equipment is needed under normal use conditions. Use approved respirator with organic vapor cartridges in tanks and confined spaces. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

**Physical State** Liquid spray Aerosol

<b>Appearance</b>	Amber	<b>Odor</b>	Mild piney odor
<b>Color</b>	Straw-colored	<b>Odor Threshold</b>	No information available
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks/ Method</u></b>	
pH	7.8	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	207 C / 405 F (less propellant)	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	0.880 (less propellant)	None known	
Water Solubility	Insoluble in 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	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Explosive properties	No data available		
Oxidizing Properties	No data available		

**Other Information**

Softening Point	No data available
VOC Content (%)	< 25% (CARB 310)
VOC Content	< 219 g/L
Particle Size	No data available
Particle Size Distribution	

**10. STABILITY AND REACTIVITY****Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

None known based on information supplied.

**Hazardous Decomposition Products**

Carbon oxides.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

<b>Product Information</b>	Product does not present an acute toxicity hazard based on known or supplied information.
<b>Inhalation</b>	Specific test data for the substance is not available.
<b>Eye Contact</b>	Minimally irritating.
<b>Skin Contact</b>	Prolonged contact could cause skin irritation.
<b>Ingestion</b>	> 5000 mg/kg (Rat)

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium petroleum sulfonate 61789-86-4	> 5000 mg/kg ( Rat )	> 4000 mg/kg ( Rabbit )	-

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	There is no data available for this product.
<b>Carcinogenicity</b>	Contains no known carcinogens.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Chronic Toxicity</b>	No information available.
<b>Target Organ Effects</b>	No information available.
<b>Aspiration Hazard</b>	No information available.

**Numerical measures of toxicity Product Information**

The following values are calculated based on chapter 3.1 of the GHS document  
Not applicable

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

No information available.

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal methods**

Product should be disposed of via authorized waste disposal contractors in accordance with all local and national regulations. Consult the appropriate state, regional, or local regulations for additional requirements.

**Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

**14. TRANSPORT INFORMATION****DOT**

Proper Shipping Name	CONSUMER COMMODITY
Hazard Class	ORM-D
Description	CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number	126

**TDG**

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1
Description	UN1950, AEROSOLS, 2.1

**MEX**

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1
Description	UN1950, AEROSOLS, 2.1

**ICAO**

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1
Description	UN1950, AEROSOLS, 2.1

**IATA**

UN-No.	UN1950
Proper Shipping Name	AEROSOLS, FLAMMABLE
Hazard Class	2.1
Description	UN1950, AEROSOLS, FLAMMABLE, 2.1

**IMDG/IMO**

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1
EmS No.	F-D, S-U
Description	UN1950, AEROSOLS, 2.1

**RID**

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1
Classification code	5F
Description	UN1950, AEROSOLS, 2.1

**ADR**

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1
Classification code	5F
Tunnel restriction code	(D)
Description	UN1950, AEROSOLS, 2.1

**ADN**

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1
Classification code	5F
Special Provisions	190, 327, 344, 625
Description	UN1950, AEROSOLS, 2.1
Limited Quantity	1 L
Ventilation	VE01, VE04

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemical or 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	Yes
Sudden release of pressure hazard	Yes
Reactive Hazard	No

**VOC Regulations**

This product complies with the consumer product VOC limits of CARB, the US EPA and states adopting the OTC VOC rules.



**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Propane 74-98-6	X	X	X		
N-Butane 106-97-8	X	X	X		
Isobutane 75-28-5	X	X	X		
1,1-Difluoroethane 75-37-6	X	X			

**International Regulations****Canada****WHMIS Hazard Class**

A - Compressed gases

B5 - Flammable aerosol

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 0	<b>Flammability</b> 4	<b>Instability</b> 0	<b>Physical and Chemical Hazards</b> -
<b>HMIS</b>	<b>Health Hazards</b> 0	<b>Flammability</b> 4	<b>Physical Hazard</b> 0	<b>Personal Protection</b> X

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

**Revision Date** 05/20/2015

**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 a 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.



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**End of Safety Data Sheet**



# SAFETY DATA SHEET

## 1. Product and Company Identification

<b>Product identifier</b>	<b>Foam Brite (4178-01, 4178-05, 4178-08)</b>
<b>Other means of identification</b>	Not available
<b>Recommended use</b>	Coil Cleaner / Degreaser
<b>Recommended restrictions</b>	None known.
<b>Manufacturer information</b>	Nu-Calgon 2611 Schuetz Road St. Louis, MO 63043 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)
<b>Supplier</b>	See above.

## 2. Hazards Identification

<b>Physical hazards</b>	Corrosive to metals	Category 1
<b>Health hazards</b>	Skin corrosion/irritation	Category 1B
	Serious eye damage/eye irritation	Category 1
<b>Environmental hazards</b>	Not classified.	
<b>WHMIS 2015 defined hazards</b>	Not classified	
<b>Label elements</b>		



**Signal word** Danger

**Hazard statement** May be corrosive to metals. Causes severe skin burns and eye damage.

**Precautionary statement**

**Prevention**

Keep only in original packaging. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

Absorb spillage to prevent material-damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage**

Store locked up. Store in a corrosion resistant container with a resistant inner liner.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**WHMIS 2015: Health Hazard(s)** None known

**not otherwise classified (HHNOC)**

**WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)** None known

**Hazard(s) not otherwise classified (HNOC)**

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** None.

## 3. Composition/Information on Ingredients

**Mixture**

<b>Chemical name</b>	<b>Common name and synonyms</b>	<b>CAS number</b>	<b>%</b>
Sodium hydroxide		1310-73-2	15-25

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

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#### 4. First Aid Measures

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<b>Inhalation</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
<b>Skin contact</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER/doctor. Specific treatment (see information on this label). Wash contaminated clothing before reuse.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
<b>Ingestion</b>	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
<b>Most important symptoms/effects, acute and delayed</b>	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically.
<b>General information</b>	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. Wear rubber gloves and chemical splash goggles. Keep out of reach of children.

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#### 5. Fire Fighting Measures

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<b>Suitable extinguishing media</b>	Foam. Carbon dioxide. Dry chemical.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Firefighters should wear a self-contained breathing apparatus.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon.

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#### 6. Accidental Release Measures

---

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or confined areas.  Large Spills: Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
<b>Environmental precautions</b>	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

---

#### 7. Handling and Storage

---

<b>Precautions for safe handling</b>	Use only with adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Keep container tightly closed. When using do not eat or drink.
<b>Conditions for safe storage, including any incompatibilities</b>	Store locked up. Store in a cool, dry place out of direct sunlight. Store in a corrosion resistant container with a resistant inner liner. Store in a closed container away from incompatible materials. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

## 8. Exposure Controls/Personal Protection

### Occupational exposure limits

#### Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

#### Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

#### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

#### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

#### Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

#### Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Exposure guidelines

Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH.

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield.

#### Skin protection

##### Hand protection

Rubber gloves. Confirm with a reputable supplier first.

##### Other

Wear appropriate chemical resistant clothing. As required by employer code.

#### Respiratory protection

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).

#### Thermal hazards

Not applicable.

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**9. Physical and Chemical Properties**

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<b>Appearance</b>	Liquid
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid
<b>Color</b>	Yellow
<b>Odor</b>	Bland.
<b>Odor threshold</b>	Not available.
<b>pH</b>	12.7 (1% in water) 14 (Concentrate)
<b>Melting point/freezing point</b>	32 °F (0 °C)
<b>Initial boiling point and boiling range</b>	212 °F (100 °C)
<b>Pour point</b>	Not available.
<b>Specific gravity</b>	1.24
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Flash point</b>	Tag Closed Cup None to boiling
<b>Evaporation rate</b>	Equal to water
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available
<b>Flammability limit - upper (%)</b>	Not available
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	Complete
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	< 5 cP Water thin
<b>Other information</b>	
<b>Density</b>	10.36 lb/gal
<b>Explosive properties</b>	Not explosive.
<b>Oxidizing properties</b>	Not oxidizing.

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**10. Stability and Reactivity**

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<b>Reactivity</b>	May be corrosive to metals. Reacts violently with acids. This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Acids. Strong oxidizing agents. Metals.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon.

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**11. Toxicological Information**

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<b>Routes of exposure</b>	Eye, Skin contact, Inhalation, Ingestion.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	Causes digestive tract burns. May cause stomach distress, nausea or vomiting.
<b>Inhalation</b>	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

<b>Skin contact</b>	Causes severe skin burns.
<b>Eye contact</b>	Causes serious eye damage.
<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Information on toxicological effects**

**Acute toxicity**

Components	Species	Test Results
Sodium hydroxide (CAS 1310-73-2)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Not available	

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

**Exposure minutes** Not available.

**Erythema value** Not available.

**Oedema value** Not available.

**Serious eye damage/eye irritation** Causes serious eye damage.

**Corneal opacity value** Not available.

**Iris lesion value** Not available.

**Conjunctival reddening value** Not available.

**Conjunctival oedema value** Not available.

**Recover days** Not available.

**Respiratory or skin sensitization**

**Canada - Alberta OELs: Irritant**

Sodium hydroxide (CAS 1310-73-2) Irritant

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Mutagenicity** Non-hazardous by WHMIS/OSHA criteria.

**Carcinogenicity** Non-hazardous by WHMIS/OSHA criteria.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Teratogenicity** Non-hazardous by WHMIS/OSHA criteria.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

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**12. Ecological Information**

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**Ecotoxicity** Components of this product have been identified as having potential environmental concerns. See below

**Ecotoxicological data**

Components	Species	Test Results
Sodium hydroxide (CAS 1310-73-2)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea ( <i>Ceriodaphnia dubia</i> ) 34.59 - 47.13 mg/L, 48 hours
Fish	LC50	Western mosquitofish ( <i>Gambusia affinis</i> ) 125 mg/L, 96 hours

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.
<b>Mobility in general</b>	Not available.
<b>Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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### 13. Disposal Considerations

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<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	D002: Waste Corrosive material [pH ≤2 or ≥12.5, or corrosive to steel] The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### 14. Transport Information

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**Transport of Dangerous Goods (TDG) Proof of Classification** In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods Regulations, we certify that the classification of this product is correct as of the SDS date of issue.

**U.S. Department of Transportation (DOT)**

**Basic shipping requirements:**

<b>UN number</b>	UN3266
<b>Proper shipping name</b>	Corrosive liquid, basic, inorganic, n.o.s.
<b>Technical name</b>	SODIUM HYDROXIDE
<b>Hazard class</b>	8
<b>Packing group</b>	II
<b>Special provisions</b>	386, B2, IB2, T11, TP2, TP27
<b>Packaging non bulk</b>	202
<b>Packaging bulk</b>	242

**Transportation of Dangerous Goods (TDG - Canada)**

**Basic shipping requirements:**

<b>UN number</b>	UN3266
<b>Proper shipping name</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
<b>Technical name</b>	SODIUM HYDROXIDE
<b>Hazard class</b>	8
<b>Packing group</b>	II
<b>Special provisions</b>	16

**IATA/ICAO (Air)**

**Basic shipping requirements:**

<b>UN number</b>	UN3266
<b>Proper shipping name</b>	Corrosive liquid, basic, inorganic, n.o.s.
<b>Technical name</b>	Sodium hydroxide
<b>Hazard class</b>	8
<b>Packing group</b>	II

**IMDG (Marine Transport)**

**Basic shipping requirements:**

<b>UN number</b>	UN3266
<b>Proper shipping name</b>	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
<b>Technical name</b>	Sodium hydroxide
<b>Hazard class</b>	8
<b>Packing group</b>	II

DOT



IATA; IMDG; TDG



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## 15. Regulatory Information

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**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

**Export Control List (CEPA 1999, Schedule 3)**

Not listed.

**Greenhouse Gases**

Not listed.

**Precursor Control Regulations**

Not regulated.

**WHMIS 2015 Exemptions**

Not applicable

**US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Sodium hydroxide (CAS 1310-73-2) Listed.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

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

**SARA 302 Extremely hazardous substance**

No

**SARA 311/312 Hazardous chemical**

No

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**US state regulations**

**US - California Hazardous Substances (Director's): Listed substance**

Sodium hydroxide (CAS 1310-73-2) Listed.

**US - Illinois Chemical Safety Act: Listed substance**

Sodium hydroxide (CAS 1310-73-2)



**US - Louisiana Spill Reporting: Listed substance**

Sodium hydroxide (CAS 1310-73-2) Listed.

**US - Minnesota Haz Subs: Listed substance**

Sodium hydroxide (CAS 1310-73-2) Listed.

**US - New Jersey RTK - Substances: Listed substance**

Sodium hydroxide (CAS 1310-73-2)

**US - Texas Effects Screening Levels: Listed substance**

Sodium hydroxide (CAS 1310-73-2) Listed.

**US. Massachusetts RTK - Substance List**

Sodium hydroxide (CAS 1310-73-2)

**US. New Jersey Worker and Community Right-to-Know Act**

Not regulated.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Sodium hydroxide (CAS 1310-73-2)

**US. Rhode Island RTK**

Sodium hydroxide (CAS 1310-73-2)

**US. California Proposition 65**

Not Listed.

**Inventory status**

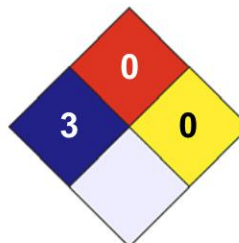
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

**16. Other Information**

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

**Disclaimer**

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document. The information in the sheet was written based on the best knowledge and experience currently available.

**Issue date**

19-April-2017

**Version #**

01

**Effective date**

19-April-2017

**Prepared by**

Nu-Calgon Technical Service Phone: (314) 469-7000

**Other information**

For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.

# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 355.50

Revision Date: March 21, 2014

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Fountain of Light Solution

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral and dermal (Category 5). May be harmful if swallowed or in contact with skin (H303+H313).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

Hazard class: Skin corrosion or irritation (Category 1). Causes severe skin burns and eye damage (H314). Do not breathe mist, vapors or spray (P260).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Sodium hydroxide	1310-73-2	NaOH	39.997	1-3%
Pyrogallol	87-66-1	C <sub>6</sub> H <sub>3</sub> -1,2,3-(OH) <sub>3</sub>	126.11	2-5%
Luminol	521-31-3	C <sub>8</sub> H <sub>7</sub> N <sub>3</sub> O <sub>2</sub>	177.17	<0.1%
Water	7732-18-5	H <sub>2</sub> O	18.00	95-99%

### SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell (P312).

**If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists:** Get medical advice or attention (P337+P313).

**If on skin:** Wash with plenty of water (P302+P352). **If skin irritation occurs:** Get medical advice or attention (P332+P313).

**If swallowed:** Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.

**In case of fire:** Use a tri-class dry chemical fire extinguisher.

**NFPA CODE**  
None  
established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain the spill with sand or absorbent material and deposit in a sealed bag or container. See Sections 8 and 13 for further information.

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**SECTION 7 — HANDLING AND STORAGE**

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Flinn Suggested Chemical Storage Pattern: Inorganic #4. Store with hydroxides, oxides, silicates and carbonates.  
Light sensitive. Store in a cool, dry place away from light.

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**SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264).

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**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

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Brown, opaque liquid containing sodium hydroxide, pyrogallol, luminol, and water. Odorless. pH: basic

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**SECTION 10 — STABILITY AND REACTIVITY**

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Avoid contact with acids and oxidizers. Avoid exposure to light.  
Shelf life: Fair, light sensitive. See Section 7 for further information.

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**SECTION 11 — TOXICOLOGICAL INFORMATION**

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Acute effects: Toxic, severe irritant, sensitizer.	ORL-RAT LD <sub>50</sub> : N.A.
Chronic effects: N.A.	IHL-RAT LC <sub>50</sub> : N.A.
Target organs: Blood, liver, kidneys.	SKN-RBT LD <sub>50</sub> : N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

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**SECTION 12 — ECOLOGICAL INFORMATION**

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No data available.

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**SECTION 13 — DISPOSAL CONSIDERATIONS**

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Please review all federal, state and local regulations that may apply before proceeding.  
Flinn Suggested Disposal Method #26b is one option.

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**SECTION 14 — TRANSPORT INFORMATION**

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Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

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**SECTION 15 — REGULATORY INFORMATION**

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Not listed.

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**SECTION 16 — OTHER INFORMATION**

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This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.

Revision Date: March 21, 2014



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Fullscrub  
**Other means of identification**  
**Product code** 9401/5/55  
**Recommended use** Cleaner/Degreaser  
**Recommended restrictions** None known.  
**Manufacturer/Importer/Supplier/Distributor information**

### Manufacturer

**Company name** Fuller Commercial Products  
**Address** One Fuller Way  
Great Bend, KS 67530  
United States  
**Telephone** Customer Service (800) 810-4829  
**E-mail** Not available.  
**Emergency phone number** CHEMTREC (800) 424-9300  
Emergency (620) 792-1711  
24 hour Emergency (800) 424-9300

## 2. Hazard(s) identification

**Physical hazards** Not classified.  
**Health hazards** Not classified.  
**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 3  
Hazardous to the aquatic environment, long-term hazard Category 3  
**OSHA defined hazards** Not classified.  
**Label elements**  
**Hazard symbol** None.  
**Signal word** Warning  
**Hazard statement** May Cause Skin Irritation. Direct contact with eyes may cause temporary irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.  
**Precautionary statement**  
**Prevention** Avoid release to the environment.  
**Response** Wash hands after handling.  
**Storage** Store away from incompatible materials.  
**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.  
**Hazard(s) not otherwise classified (HNOC)** None known.  
**Supplemental information** 4% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 4% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
SODIUM DODECYLBENZENE SULFONATE		25155-30-0	1 - < 3
UNDECETH-7		34398-01-1	1 - < 3
Other components below reportable levels			90 - 100

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling	Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.
Conditions for safe storage, including any incompatibilities	Store in original tightly closed container. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties**

<b>Appearance</b>	Liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid. Watery liquid.
<b>Color</b>	Clear Green
<b>Odor</b>	Matches to Standard
<b>Odor threshold</b>	Not available.
<b>pH</b>	9
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	0.00001 hPa estimated
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Density</b>	8.60 lbs/gal estimated
<b>Percent volatile</b>	91.25 % estimated
<b>Specific gravity</b>	1.03 estimated

**10. Stability and reactivity**

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.

<b>Conditions to avoid</b>	Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion</b>	Expected to be a low ingestion hazard.
<b>Inhalation</b>	No adverse effects due to inhalation are expected.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

**Acute toxicity** Not available.

Product	Species	Test Results
Fullscrub (CAS Mixture)		
<b>Acute</b>		
<i>Other</i>		
LD50	Mouse	31.3333 g/kg estimated
	Rat	59.3333 g/kg estimated

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

### Respiratory or skin sensitization

<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not available.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Product	Species	Test Results
Fullscrub (CAS Mixture)		
<b>Aquatic</b>		
Crustacea	EC50 Daphnia	71.5981 mg/l, 48 hours estimated
Fish	LC50 Fish	115.3952 mg/l, 96 hours estimated

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Partition coefficient n-octanol / water (log Kow)**

SODIUM DODECYLBENZENE SULFONATE 0.45

**Mobility in soil** No data available.**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.**13. Disposal considerations****Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.**Local disposal regulations** Dispose in accordance with all applicable regulations.**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.**14. Transport information****DOT**

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** This substance/mixture is not intended to be transported in bulk.**15. Regulatory information****US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

SODIUM DODECYLBENZENE SULFONATE (CAS 25155-30-0) Listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No**SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous chemical** No**SARA 313 (TRI reporting)**

Not regulated.



**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations**

**US. Massachusetts RTK - Substance List**

SODIUM DODECYLBENZENE SULFONATE (CAS 25155-30-0)

**US. New Jersey Worker and Community Right-to-Know Act**

SODIUM DODECYLBENZENE SULFONATE (CAS 25155-30-0)

**US. Pennsylvania Worker and Community Right-to-Know Law**

SODIUM DODECYLBENZENE SULFONATE (CAS 25155-30-0)

**US. Rhode Island RTK**

SODIUM DODECYLBENZENE SULFONATE (CAS 25155-30-0)

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**16. Other information, including date of preparation or last revision**

**Issue date** 10-16-2014

**Version #** 01

**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 a 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.