

**F**

## MATERIAL SAFETY DATA SHEET

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

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

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

### Section I – Product Identification

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

F 1, 10, 11, 15, 20, 21, 22, 23, 25, 30, 31, 40, 41, 42, 43, 50, 51, 52, 53, 54, 55, 57, 58, 60, 61, 65, 66, 70, 71 and Class Packs

### Section II – Hazardous Ingredients

Reportable Components	CAS#	Vapor Pressure Mm Hg @ Temp	Weight Percent
Water	7732-18-4		
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.

### Section III – Physical / Chemical Characteristics

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

### Section IV – Fire and Explosion Hazards Data

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

### Section V – Reactivity Data

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

### Section VI – Health Hazards

Inhalation Health Risks and Symptoms of Exposure: None.

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

Skin Absorption Health Risks and Symptoms of Exposure: None.

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

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

Carcinogenicity: 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.

---

#### Section VII Precautions For Safe Handling and Use

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

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

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

Other precautions: None.

---

#### Section VIII – Control Measures

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

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

Protective Gloves: Not needed.

Eye Protection: Not needed.

Other Protective Clothing or Equipment: Not needed.

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

---

#### 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

## 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.



---

#### Section VI – Health Hazard Data

---

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.

---

#### 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.**

---

#### 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.

---

#### 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.

This product is intended to be used neat.  
This product is intended to be used neat.  
This product is intended to be used neat.  
This product is intended to be used neat.

## 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:

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.

## 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

**Boiling point/range:** Not determined

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

**pH:** 12.2

**Viscosity:** No information available

**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

*Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.*

# Safety Data Sheet

FD&C Blue #1, 0.5%

**CAROLINA**<sup>®</sup>  
www.carolina.com

## Section 1 Product Description

**Product Name:** FD&C Blue #1, 0.5%  
**Recommended Use:** Science education applications  
**Synonyms:** Food Coloring; Vegetable Dye  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**GHS Classification:**  
Acute Toxicity - Oral Category 5

## Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	99.5
FD&C Blue #1	3844-45-9	0.5

## Section 4 First Aid Measures

### Emergency and First Aid Procedures

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
**Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**Skin Contact:** After contact with skin, wash immediately with plenty of water.  
**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Section 5 Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** N/A  
**Hazardous Combustion Products:** Sodium Oxides, Sulfur Oxides, Carbon oxides, Nitrogen oxides

## Section 6 Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Poses little or no immediate hazard. Isolate area. Keep unnecessary personnel away. Remove soiled clothing and launder before reuse. Absorb the liquid and scrub the area with detergent and water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not flush spill to drain.

## Section 7 Handling and Storage

**Handling:** Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution.  
**Storage:** Keep container tightly closed in a cool, well-ventilated place.

# Safety Data Sheet

**Storage Code:** Green - general chemical storage

## Section 8 Protection Information

<u>Chemical Name</u>	<u>(TWA)</u>	<u>ACGIH</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>OSHA PEL</u>	<u>(STEL)</u>
No data available	N/A		N/A	N/A		N/A

### Control Parameters

#### Engineering Measures:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

#### Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

#### Respiratory Protection:

No respiratory protection required under normal conditions of use.

#### Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station available.

#### Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

#### Gloves:

Natural rubber, Neoprene, PVC or equivalent.

## Section 9 Physical Data

<b>Formula:</b> Mixture	<b>Vapor Pressure:</b> 14 (water)
<b>Molecular Weight:</b> N/A	<b>Evaporation Rate (BuAc=1):</b> < 1
<b>Appearance:</b> Blue	<b>Vapor Density (Air=1):</b> 0.7 (water)
<b>Odor:</b> None	<b>Specific Gravity:</b> Approx. 1.0
<b>Odor Threshold:</b> No data available	<b>Solubility in Water:</b> Soluble
<b>pH:</b> No data available	<b>Log Pow (calculated):</b> No data available
<b>Melting Point:</b> No data available 0 C	<b>Autoignition Temperature:</b> No data available
<b>Boiling Point:</b> 100 C	<b>Decomposition Temperature:</b> No data available
<b>Flash Point:</b> No data available	<b>Viscosity:</b> No data available
<b>Flammable Limits in Air:</b> N/A N/A	<b>Percent Volatile by Volume:</b> 99.5%

## Section 10 Reactivity Data

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	None known.
<b>Incompatible Materials:</b>	Water-reactive materials, Strong oxidizing agents, Strong reducing agents
<b>Hazardous Decomposition Products:</b>	Nitrogen oxides, Carbon oxides, Sulfur Oxides, Sodium Oxides
<b>Hazardous Polymerization:</b>	Will not occur

## Section 11 Toxicity Data

<b>Routes of Entry</b>	Inhalation, ingestion, eye or skin contact.
<b>Symptoms (Acute):</b>	N/A
<b>Delayed Effects:</b>	No data available

### Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
FD&C Blue #1	3844-45-9	Oral LD50 Rat > 2000 mg/kg		

### Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
---------------	------------	------	-----	------



# Safety Data Sheet

No data available

7732-18-5  
3844-45-9

Not listed

Not listed

Not listed

## Chronic Effects:

**Mutagenicity:** No evidence of a mutagenic effect.  
**Teratogenicity:** No evidence of a teratogenic effect (birth defect).  
**Sensitization:** No evidence of a sensitization effect.  
**Reproductive:** No evidence of negative reproductive effects.

## Target Organ Effects:

**Acute:** See Section 2

**Chronic:** To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated.

## Section 12

### Ecological Data

**Overview:** This material is not expected to be harmful to the ecology. Keep out of waterways.  
**Mobility:** No data  
**Persistence:** No data  
**Bioaccumulation:** No data  
**Degradability:** No data  
**Other Adverse Effects:** No data

**Chemical Name**  
Water

**CAS Number**  
7732-18-5

**Eco Toxicity**  
No data available

## Section 13

### Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.  
**Waste Disposal Code(s):** Not Determined

## Section 14

### Transport Information

**Ground - DOT Proper Shipping Name:**  
N/A

**Air - IATA Proper Shipping Name:**  
Not regulated for air transport by IATA.

## Section 15

### Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	7732-18-5 3844-45-9	No	No	No	No	No

**California Prop 65:**

No California Proposition 65 ingredients

## Section 16

### Additional Information

# Safety Data Sheet

**Revised: 08/21/2018**

**Replaces: 06/15/2018**

**Printed: 08-25-2018**

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

## Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

# Safety Data Sheet

FD&C Green #3, 0.5%

**CAROLINA**<sup>®</sup>  
www.carolina.com

## Section 1 Product Description

**Product Name:** FD&C Green #3, 0.5%  
**Recommended Use:** Science education applications  
**Synonyms:** Fast Green FCF solution, Green Food Coloring, C.I. 42053  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

**Other Safety Precautions:** Not a dangerous substance according to GHS classification criteria.  
No known OSHA hazards.

## Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	99.5
Fast Green FCF(CAS#2353-45-9) 100%	2353-45-9	0.5

## Section 4 First Aid Measures

### Emergency and First Aid Procedures

**Inhalation:** In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
**Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
**Skin Contact:** After contact with skin, wash immediately with plenty of water.  
**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Section 5 Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.  
**Hazardous Combustion Products:** Sodium Oxides, Sulfur Oxides, Carbon oxides, Nitrogen oxides

## Section 6 Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** No adverse health affects expected from the clean-up of spilled material. Remove soiled clothing and laundry before reuse. Poses little or no immediate hazard  
No special spill clean-up considerations. Collect and discard in regular trash.

## Section 7 Handling and Storage

**Handling:** Do not ingest or take internally. Avoid contact with skin and eyes.  
**Storage:** Suitable for any general chemical storage.  
**Storage Code:** Green - general chemical storage

# Safety Data Sheet

## Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
No data available	N/A	N/A	N/A	N/A
<b>Control Parameters</b>				
<b>Engineering Measures:</b>	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.			
<b>Personal Protective Equipment (PPE):</b>	Lab coat, apron, eye wash, safety shower.			
<b>Respiratory Protection:</b>	No respiratory protection required under normal conditions of use.			
<b>Eye Protection:</b>	Wear chemical splash goggles when handling this product. Have an eye wash station available.			
<b>Skin Protection:</b>	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.			
<b>Gloves:</b>	Natural rubber, Neoprene, PVC or equivalent.			

## Section 9 Physical Data

<b>Formula:</b> Product is a mixture.	<b>Vapor Pressure:</b> N/A
<b>Molecular Weight:</b> N/A	<b>Evaporation Rate (BuAc=1):</b> N/A
<b>Appearance:</b> Green Liquid	<b>Vapor Density (Air=1):</b> N/A
<b>Odor:</b> No data available	<b>Specific Gravity:</b> approx. 1
<b>Odor Threshold:</b> No data available	<b>Solubility in Water:</b> Soluble
<b>pH:</b> No data available	<b>Log Pow (calculated):</b> No data available
<b>Melting Point:</b> No data available	<b>Autoignition Temperature:</b> No data available
<b>Boiling Point:</b> 100 C	<b>Decomposition Temperature:</b> No data available
<b>Flash Point:</b> No data available	<b>Viscosity:</b> 10
<b>Flammable Limits in Air:</b> N/A	<b>Percent Volatile by Volume:</b> N/A

## Section 10 Reactivity Data

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	None known.
<b>Incompatible Materials:</b>	Strong oxidizing agents, Water-reactive materials
<b>Hazardous Decomposition Products:</b>	Nitrogen oxides, Carbon oxides, Sulfur Oxides, Sodium Oxides
<b>Hazardous Polymerization:</b>	Will not occur

# Safety Data Sheet

## Section 11

## Toxicity Data

**Routes of Entry:** Eyes and skin  
**Symptoms (Acute):** None Known  
**Delayed Effects:** No data available

### Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Fast Green FCF(CAS#2353-45-9) 100%	2353-45-9	Oral LD50 Rat > 2000 mg/kg		

### Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
No data available		Not listed	Not listed	Not listed

### Chronic Effects:

**Mutagenicity:** No evidence of a mutagenic effect.  
**Teratogenicity:** No evidence of a teratogenic effect (birth defect).  
**Sensitization:** No evidence of a sensitization effect.  
**Reproductive:** No evidence of negative reproductive effects.  
**Target Organ Effects:**  
**Acute:** See Section 2  
**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA.

## Section 12

## Ecological Data

**Overview:** This material is not expected to be harmful to the ecology. Keep out of waterways.  
**Mobility:** No data  
**Persistence:** No data  
**Bioaccumulation:** No data  
**Degradability:** No data  
**Other Adverse Effects:** No data

Chemical Name	CAS Number	Eco Toxicity
Water	7732-18-5	No data available

## Section 13

## Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.  
**Waste Disposal Code(s):** Not Determined

## Section 14

## Transport Information

<b>Ground - DOT Proper Shipping Name:</b> Not regulated for transport	<b>Air - IATA Proper Shipping Name:</b> Not regulated for air transport by IATA.
--	---

# Safety Data Sheet

## Section 15

## Regulatory Information

**TSCA Status:**

All components in this product are on the TSCA Inventory.

**Chemical Name****CAS  
Number****§ 313 Name****§ 304 RQ****CERCLA RQ****§ 302 TPQ****CAA 112(2)  
TQ**

No data available

No

No

No

No

No

## Section 16

## Additional Information

**Revised: 09/03/2014**

**Replaces: 08/27/2014**

**Printed: 09-12-2014**

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

**Glossary**

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

# Safety Data Sheet

FD&C Red #40

**CAROLINA®**  
www.carolina.com

## Section 1 Product Description

Product Name: FD&C Red #40  
Recommended Use: Science education applications  
Synonyms: Allura Red AC  
Distributor: Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)  
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Other Safety Precautions: May cause irritation.  
May cause gastrointestinal discomfort.  
May cause irritation to respiratory tract.  
May cause irritation to skin.

Acute Toxicity Dermal Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity  
Acute Toxicity Inhalation Gas Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity  
Acute Toxicity Inhalation Vapor Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity  
Acute Toxicity Inhalation Dust/Mist Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity

## Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%
FD&C Red #40	25956-17-6	100

## Section 4 First Aid Measures

### Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.  
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Skin Contact: After contact with skin, wash immediately with plenty of water.  
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.  
Fire Fighting Methods and Protection: N/A  
Fire and/or Explosion Hazards: Avoid Dusting. May become explosive when dispersed in air.  
Hazardous Combustion Products: Sodium Oxides, Sulfur Oxides, Carbon oxides, Nitrogen oxides

## Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Avoid prolonged or repeated contact with material. Avoid creating and inhaling dust. Avoid contact with skin and eyes.

# Safety Data Sheet

Vacuum or sweep up material and place in a disposal container

## Section 7 Handling and Storage

**Handling:** Do not ingest or take internally. Avoid creating and inhaling dust.  
**Storage:** Suitable for any general chemical storage.  
**Storage Code:** Green - general chemical storage

## Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>	<u>OSHA PEL</u>		
	(TWA)	(STEL)	(TWA)	(STEL)
No data available	N/A	N/A	N/A	N/A

### Control Parameters

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** Nitrile

## Section 9 Physical Data

<b>Formula:</b> C18H16N2O8S2*Na2	<b>Vapor Pressure:</b> N/A
<b>Molecular Weight:</b> 498.44	<b>Evaporation Rate (BuAc=1):</b> N/A
<b>Appearance:</b> Dark Red Powder	<b>Vapor Density (Air=1):</b> N/A
<b>Odor:</b> No data available	<b>Specific Gravity:</b> N/A
<b>Odor Threshold:</b> No data available	<b>Solubility in Water:</b> Soluble
<b>pH:</b> No data available	<b>Log Pow (calculated):</b> No data available
<b>Melting Point:</b> > 300 C	<b>Autoignition Temperature:</b> No data available
<b>Boiling Point:</b> No data available	<b>Decomposition Temperature:</b> No data available
<b>Flash Point:</b> No data available	<b>Viscosity:</b> No data available
<b>Flammable Limits in Air:</b> N/A	<b>Percent Volatile by Volume:</b> N/A

## Section 10 Reactivity Data

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	None known.
<b>Incompatible Materials:</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products:</b>	Nitrogen oxides, Carbon oxides, Sulfur Oxides, Sodium Oxides
<b>Hazardous Polymerization:</b>	May polymerize violently under heat.

## Section 11 Toxicity Data

**Routes of Entry:** Inhalation and ingestion.  
**Symptoms (Acute):** None Known  
**Delayed Effects:** No data available

**Acute Toxicity:**  
**Chemical Name**  
FD&C Red #40

**CAS Number**  
25956-17-6

**Oral LD50**  
Oral LD50 Dog >  
5000 mg/kg

**Dermal LD50**  
Dermal LD50  
Rabbit > 10000  
mg/kg

**Inhalation LC50**  
Not determined

**Carcinogenicity:**  
**Chemical Name**

**CAS Number**

**IARC**

**NTP**

**OSHA**



# Safety Data Sheet

No data available

25956-17-6

Not listed

Not listed

Not listed

## Chronic Effects:

**Mutagenicity:** No evidence of a mutagenic effect.  
**Teratogenicity:** No evidence of a teratogenic effect (birth defect).  
**Sensitization:** No evidence of a sensitization effect.  
**Reproductive:** No evidence of negative reproductive effects.

## Target Organ Effects:

**Acute:** No data available  
**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA.

## Section 12

## Ecological Data

**Overview:** This material is not expected to be harmful to the ecology.  
**Mobility:** No data  
**Persistence:** No data  
**Bioaccumulation:** No data  
**Degradability:** No data  
**Other Adverse Effects:** No data

**Chemical Name**  
N/A

**CAS Number**  
25956-17-6

**Eco Toxicity**

## Section 13

## Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.  
**Waste Disposal Code(s):** Not Determined

## Section 14

## Transport Information

**Ground - DOT Proper Shipping Name:**  
Not regulated for transport

**Air - IATA Proper Shipping Name:**  
Not regulated for air transport by IATA.

## Section 15

## Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	25956-17-6	No	No	No	No	No

## Section 16

## Additional Information

**Revised:** 09/03/2014

**Replaces:** 08/27/2014

**Printed:** 09-11-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

# Safety Data Sheet

FD&C Yellow #5

**CAROLINA<sup>®</sup>**  
www.carolina.com

## Section 1

## Product Description

**Product Name:** FD&C Yellow #5  
**Recommended Use:** Science education applications  
**Synonyms:** Tartrazine, Acid Yellow 23, Food Yellow 4, Tartrazine Yellow  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

## Section 2

## Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**DANGER**



May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### GHS Classification:

Respiratory Sensitisation Category 1, Skin Sensitisation Category 1

<b>Acute Toxicity Dermal Contains</b>	100 % of the mixture consists of ingredient(s) of unknown toxicity
<b>Acute Toxicity Inhalation Gas Contains</b>	100 % of the mixture consists of ingredient(s) of unknown toxicity
<b>Acute Toxicity Inhalation Vapor Contains</b>	100 % of the mixture consists of ingredient(s) of unknown toxicity
<b>Acute Toxicity Inhalation Dust/Mist Contains</b>	100 % of the mixture consists of ingredient(s) of unknown toxicity

## Section 3

## Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
FD&C Yellow #5	1934-21-0	100

## Section 4

## First Aid Measures

### Emergency and First Aid Procedures

**Inhalation:** IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**Eyes:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Skin Contact:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

## Section 5

## Firefighting Procedures

**Extinguishing Media:** Use media suitable to extinguish surrounding fire.

**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

**Fire and/or Explosion Hazards:** Fire or excessive heat may produce hazardous decomposition products.

# Safety Data Sheet

Hazardous Combustion Products: Sodium Oxides, Sulfur Oxides, Carbon oxides, Nitrogen oxides

## Section 6 Spill or Leak Procedures

### Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid contact with material. Avoid creating and inhaling spray or mist. Avoid contact with skin and eyes. Absorb the liquid and scrub the area with detergent and water. Pick up wash liquid with additional absorbent and place in a disposable container. Contain the discharged material. Block any potential routes to water systems.

## Section 7 Handling and Storage

**Handling:** Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection. Avoid creating and inhaling dust. Do not ingest or take internally. Readily absorbs moisture from air.

**Storage:** Suitable for any general chemical storage.

**Storage Code:** Green - general chemical storage

## Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>	<u>OSHA PEL</u>		
	(TWA)	(STEL)	(TWA)	(STEL)
No data available	N/A	N/A	N/A	N/A

### Control Parameters

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.

**Respiratory Protection:** No respiratory protection required under normal conditions of use.

**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available.

**Skin Protection:** Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

**Gloves:** Nitrile

## Section 9 Physical Data

<b>Formula:</b> C <sub>16</sub> H <sub>9</sub> N <sub>4</sub> O <sub>9</sub> S <sub>2</sub> Na <sub>3</sub>	<b>Vapor Pressure:</b> N/A
<b>Molecular Weight:</b> 534.37 g/mol	<b>Evaporation Rate (BuAc=1):</b> N/A
<b>Appearance:</b> Orange Powder	<b>Vapor Density (Air=1):</b> N/A
<b>Odor:</b> No data available	<b>Specific Gravity:</b> N/A
<b>Odor Threshold:</b> No data available	<b>Solubility in Water:</b> Soluble
<b>pH:</b> No data available	<b>Log Pow (calculated):</b> No data available
<b>Melting Point:</b> No data available	<b>Autoignition Temperature:</b> No data available
<b>Boiling Point:</b> No data available	<b>Decomposition Temperature:</b> No data available
<b>Flash Point:</b> No data available	<b>Viscosity:</b> No data available
<b>Flammable Limits in Air:</b> No data available	<b>Percent Volatile by Volume:</b> N/A

## Section 10 Reactivity Data

**Reactivity:** No data available

**Chemical Stability:** Stable under normal conditions.

**Conditions to Avoid:** None known.

**Incompatible Materials:** Strong oxidizing agents

**Hazardous Decomposition Products:** Nitrogen oxides, Carbon oxides, Sulfur Oxides, Sodium Oxides

# Safety Data Sheet

Hazardous Polymerization:

Will not occur

## Section 11

## Toxicity Data

**Routes of Entry:** Inhalation and ingestion.  
**Symptoms (Acute):** Respiratory disorders  
**Delayed Effects:** No data available

### Acute Toxicity:

**Chemical Name**  
FD&C Yellow #5

**CAS Number**  
1934-21-0

**Oral LD50**  
Oral LD50 Mouse  
12750 mg/kg

**Dermal LD50**  
Not determined

**Inhalation LC50**  
Not determined

### Carcinogenicity:

**Chemical Name**  
No data available

**CAS Number**  
1934-21-0

**IARC**  
Not listed

**NTP**  
Not listed

**OSHA**  
Not listed

### Chronic Effects:

**Mutagenicity:** No evidence of a mutagenic effect.  
**Teratogenicity:** No evidence of a teratogenic effect (birth defect).  
**Sensitization:** Evidence of a sensitization effect.  
**Reproductive:** No evidence of negative reproductive effects.  
**Target Organ Effects:**  
**Acute:** No data available  
**Chronic:** Not listed as a carcinogen by IARC, NTP or OSHA.

## Section 12

## Ecological Data

**Overview:** This material is not expected to be harmful to the ecology. Keep out of waterways.  
**Mobility:** No data  
**Persistence:** No data  
**Bioaccumulation:** No data  
**Degradability:** No data  
**Other Adverse Effects:** No data

**Chemical Name**  
N/A

**CAS Number**  
1934-21-0

**Eco Toxicity**

## Section 13

## Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.  
**Waste Disposal Code(s):** Not Determined

## Section 14

## Transport Information

**Ground - DOT Proper Shipping Name:**  
Not regulated for transport

**Air - IATA Proper Shipping Name:**  
Not regulated for air transport by IATA.

## Section 15

## Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	1934-21-0	No	No	No	No	No

# Safety Data Sheet

## Section 16

## Additional Information

Revised: 09/03/2014

Replaces: 08/27/2014

Printed: 09-11-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

**Effective date :** 01.08.2015

**Ferric Nitrate 0.05M**

**SECTION 1: Identification of the substance/mixture and of the supplier**

**Product name:** Ferric Nitrate 0.05M

**Manufacturer/Supplier Trade name:**

**Manufacturer/Supplier Article number:** KEMFE3360-A

**Recommended uses of the product and restrictions on use:**

**Manufacturer Details:**

AquaPhoenix Scientific, Inc.  
9 Barnhart Drive  
Hanover, PA 17331  
1-717-632-1291

**Supplier Details:**

AquaPhoenix Scientific Inc.  
9 Barnhart Drive, Hanover PA 17331  
(717) 632-1291

**Emergency telephone number:**

**ChemTel: (24-hour) (US and Canada)**  
1-(800)-255-3924

**SECTION 2: Hazards identification**

**Classification of the substance or mixture:** Not classified for physical or health hazards under GHS.

**Signal word:** None

**Hazard statements:** None

**Precautionary statements:**

If medical advice is needed have product container or label at hand.  
Keep out of reach of children.  
Read label before use.

**Other Non-GHS Classification:** None

**SECTION 3: Composition/information on ingredients**

**Ingredients:**

Ingredients:		
CAS 7782-61-8	Ferric Nitrate	2.02 %
CAS 7732-18-5	Deionized Water	97.83 %
CAS 7697-37-2	Nitric Acid, ACS	0.15 %
Percentages are by weight		

**SECTION 4: First aid measures**

**Description of first aid measures**

**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

**Effective date :** 01.08.2015

**Ferric Nitrate 0.05M**

**After inhalation:**

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical attention if irritation or coughing persists.

**After skin contact:**

Wash affected area with soap and water. Immediately remove contaminated clothing and shoes. Rinse thoroughly with plenty of water for at least 15 minutes. Immediately seek medical attention.

**After eye contact:**

Protect unexposed eye. Flush thoroughly with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do, and continue rinsing. Continue rinsing eyes during transport to hospital.

**After swallowing:**

Rinse mouth thoroughly. Dilute with water or milk. Get medical assistance. Induce vomiting.

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

Inhalation may cause irritation to nose and upper respiratory tract, ulceration, coughing, chest tightness and shortness of breath. Higher concentrations cause tachypnoea, pulmonary oedema and suffocation. Pain, eye ulceration, conjunctival irritation, cataracts and glaucoma may occur following eye exposure. None identified.

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

Provide SDS to Physician. Physician should treat symptomatically.

**SECTION 5: Firefighting measures**

**Extinguishing media**

**Suitable extinguishing agents:**

Use dry chemical, foam, carbon dioxide, or mist to extinguish surrounding fire.

**Unsuitable extinguishing agents:**

None identified.

**Special hazards arising from the substance or mixture:**

None identified. Not considered to be a fire or explosion hazard.

**Advice for firefighters:**

**Protective equipment:**

Use normal procedures. Use protective clothing. Use NIOSHapproved breathing equipment.

**Additional information (precautions):**

Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

**SECTION 6: Accidental release measures**

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

Ensure adequate ventilation. Ensure that air-handling systems are operational.

**Environmental precautions:**

Should not be released into environment. Prevent from reaching drains, sewer, or waterway.

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

Always obey local regulations. If necessary use trained response staff or contractor. Evacuate personnel to safe areas. Containerize for disposal. Refer to Section 13. Keep in suitable closed containers for disposal. Soak up with inert absorbent material and dispose of as hazardous waste. Cover spill with suitable absorbing agent. Mix and add water to form slurry. Wear protective eyewear, gloves, and clothing. Refer to Section 8.

**Reference to other sections:** None

**SECTION 7: Handling and storage**

**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.08.2015

**Ferric Nitrate 0.05M****Precautions for safe handling:**

Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Prevent contact with skin, eyes, and clothing. Do not eat, drink, smoke, or use personal products when handling chemical substances.

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

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Store protected from moisture. Provide ventilation for containers. Keep container tightly closed.

**SECTION 8: Exposure controls/personal protection****Control parameters:**

7782-61-8, Ferric nitrate nonahydrate , OSHA PEL TWA 1 mg/m3.  
7782-61-8 , Ferric nitrate nonahydrate , ACGIH TLV TWA 1 mg/m3.  
7697-37-2 , Nitric Acid , NIOSH 4 ppm STEL; 10 mg/m3 STEL.  
7697-37-2 , Nitric Acid , NIOSH 2 ppm TWA; 5 mg/m3 TWA.  
7697-37-2 , Nitric Acid , ACGIH 4 ppm STEL.  
7697-37-2 , Nitric Acid ACGIH, 2 ppm TWA.

**Appropriate engineering controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of handling. Normal ventilation is adequate.

**Respiratory protection:** Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

**Protection of skin:** Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear protective clothing.

**Eye protection:** Tightly fitting safety goggles. Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**General hygienic measures:** Perform routine housekeeping. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes, and clothing. Before re-wearing wash contaminated clothing.

**SECTION 9: Physical and chemical properties**

<b>Appearance (physical state, color):</b>	Clear, colorless liquid	<b>Explosion limit lower:</b>	Non Explosive
		<b>Explosion limit upper:</b>	Non Explosive
<b>Odor:</b>	Odorless	<b>Vapor pressure at 20°C:</b>	No information available
<b>Odor threshold:</b>	No information available	<b>Vapor density:</b>	No Determined.
<b>pH-value:</b>	No information available	<b>Relative density:</b>	Approx. 1 (Water = 1)
<b>Melting/Freezing point:</b>	No information available	<b>Solubilities:</b>	Soluble.
<b>Boiling point/Boiling range:</b>	No information available	<b>Partition coefficient (n-octanol/water):</b>	Not determined



**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.08.2015

**Ferric Nitrate 0.05M**

<b>Flash point (closed cup):</b>	Not applicable	<b>Auto/Self-ignition temperature:</b>	Not determined
<b>Evaporation rate:</b>	No information available	<b>Decomposition temperature:</b>	Not determined
<b>Flammability (solid, gaseous):</b>	Not flammable	<b>Viscosity:</b>	a. Kinematic: Not determined b. Dynamic: Not determined
<b>Density at 20°C:</b>	Approx. 1 g/cm <sup>3</sup> (8.345 lbs/gal) at 20 °C (68 °F)		
<b>Hydrochloric Acid</b>	MW is 36.46		

**SECTION 10: Stability and reactivity****Reactivity:**

Under normal conditions product is stable.

**Chemical stability:**

No decomposition if used and stored according to specifications.

**Possible hazardous reactions:**

None under normal processing.

**Conditions to avoid:**

Incompatible materials.

**Incompatible materials:**

Strong bases, hydrogen sulfides, turpentine, metallic powders, hydrogen sulfides, wood and combustible organics.

**Hazardous decomposition products:**

Can emit toxic fumes of hydrogen nitrate or nitrogen oxides.

**SECTION 11: Toxicological information****Acute Toxicity:****Chronic Toxicity:** No additional information.**Skin corrosion/irritation:**

: Irritating to skin 7782-61-8 (Ferric Nitrate).

**Serious eye damage/irritation:**

: Irritating to eyes. 7782-61-8 (Ferric Nitrate).

**Respiratory or skin sensitization:**

: None identified.

**Carcinogenicity:** No additional information.**Germ cell mutagenicity:** No additional information.**Reproductive Toxicity:** No additional information.**STOT-single and repeated exposure:** No additional information.**Additional toxicological information:** No additional information.**SECTION 12: Ecological information**

**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

**Effective date :** 01.08.2015

**Ferric Nitrate 0.05M**

**Ecotoxicity:** No additional information.

**Persistence and degradability:**

No Information Available.

**Bioaccumulative potential:**

No Information Available.

**Mobility in soil:**

No Information Available.

**Other adverse effects:**

No Information Available.

**SECTION 13: Disposal considerations**

**Waste disposal recommendations:**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification. Absorb with suitable material and containerize for disposal.

**SECTION 14: Transport information**

**US DOT**

**UN Number:**

ADR, ADN, DOT, IMDG, IATA

Not regulated

**Limited Quantity Exception:**

None

**Bulk:**

**RQ (if applicable):** None

**Proper shipping Name:** Not regulated.

**Hazard Class:** None

**Packing Group:** Not regulated.

**Marine Pollutant (if applicable):** No additional information.

**Comments:** None

**Non Bulk:**

**RQ (if applicable):** None

**Proper shipping Name:** Not regulated.

**Hazard Class:** None

**Packing Group:** Not regulated.

**Marine Pollutant (if applicable):** No additional information.

**Comments:** None

**SECTION 15: Regulatory information**

**United States (USA)**

**SARA Section 311/312 (Specific toxic chemical listings):**

Acute, Chronic

**SARA Section 313 (Specific toxic chemical listings):**

7782-61-8 Ferric nitrate nonahydrate.

7697-37-2 Nitric Acid.

**RCRA (hazardous waste code):**

None of the ingredients are listed.

**TSCA (Toxic Substances Control Act):**

**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

**Effective date :** 01.08.2015

**Ferric Nitrate 0.05M**

All ingredients are listed.

**CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

7783-85-9 Ferrous Ammonium Sulfate 1000 lbs.

7697-37-2 Nitric acid 1000 lbs.

**Proposition 65 (California):**

**Chemicals known to cause cancer:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

**Canada**

**Canadian Domestic Substances List (DSL):**

All ingredients are listed.

**SECTION 16: Other Information**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

**NFPA:** 1-0-0

**HMIS:** 1-0-0

**GHS Full Text Phrases:** None

**Abbreviations and Acronyms:**

IMDG International Maritime Code for Dangerous Goods.  
PNEC. Predicted No-Effect Concentration (REACH).  
CFR Code of Federal Regulations (USA).  
SARA Superfund Amendments and Reauthorization Act (USA).  
RCRA. Resource Conservation and Recovery Act (USA).  
TSCA. Toxic Substances Control Act (USA).  
NPRI National Pollutant Release Inventory (Canada).  
DOT US Department of Transportation.  
IATA International Air Transport Association.  
GHS Globally Harmonized System of Classification and Labelling of Chemicals.  
ACGIH American Conference of Governmental Industrial Hygienists.  
CAS Chemical Abstracts Service (division of the American Chemical Society).

**Safety Data Sheet**  
according to 29CFR1910/1200 and GHS Rev. 3

**Effective date :** 01.08.2015

**Perme Nitrate 0.03M**

NFPA National Fire Protection Association (USA).

HMIS Hazardous Materials Identification System (USA).

WHMIS Workplace Hazardous Materials Information System (Canada).

DNEL Derived No-Effect Level (REACH).

## Section 1 Chemical Product and Company Identification

Page E1 of E2

**Aldon  
Corporation**221 Rochester Street  
Avon, NY 14414  
(585) 226-6177**CHEMTREC 24 Hour Emergency USA**  
**Phone Number (800) 424-9300**  
For laboratory and industrial use only.  
Not for drug, food or household use.**Product** FERRIC NITRATE, 0.2 MOLAR SOLUTION**Synonyms** Iron(III) Nitrate, Water Solution

## Section 2 Hazards Identification

**Signal word:** WARNING**Pictograms:** GHS07**Target organs:** Blood**GHS Classification:**

Acute toxicity (Category 5)

Skin irritation (Category 2)

Eye irritation (Category 2B)

**GHS Label information: Hazard statement(s):**

H303: May be harmful if swallowed.

H315: Causes skin irritation.

H320: Causes eye irritation.

**Precautionary statement(s):**

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash before reuse.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Water	7732-18-5	91.9%	231-791-2
Ferric nitrate, nonahydrate	7782-61-8	8.1%	233-899-5 (anhydrous CAS # 10421-48-4)

## Section 4 First Aid Measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.**INHALATION:** MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.**EYE CONTACT:** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.**SKIN ABSORPTION:** CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Use any media suitable for extinguishing supporting fire.**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.**Specific Hazards:** In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

## Section 6 Accidental Release Measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.**Containment and Cleanup:** Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, well-ventilated area away from incompatible substances.

## Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Iron salts, soluble, as Fe	TWA: 1 mg/m <sup>3</sup>	None	TWA: 1 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical &amp; Chemical Properties

<b>Appearance:</b> Clear, yellowish liquid.	<b>Evaporation rate (Water = 1):</b> <1	<b>Partition coefficient:</b> Data not available
<b>Odor:</b> No odor.	<b>Flammability (solid/gas):</b> Data not available.	<b>Auto-ignition temperature:</b> Data not available
<b>Odor threshold:</b> Data not available.	<b>Explosion limits: Lower / Upper:</b> Data not available	<b>Decomposition temperature:</b> Data not available.
<b>pH:</b> Data not available.	<b>Vapor pressure (mm Hg):</b> 14 (water)	<b>Viscosity:</b> Data not available.
<b>Melting / Freezing point:</b> Approximately 0°C (32°F) (water)	<b>Vapor density (Air = 1):</b> 0.7 (water)	<b>Molecular formula:</b> Mixture
<b>Boiling point:</b> Approximately 100°C (212°F) (water)	<b>Relative density (Specific gravity):</b> Approximately 1.0 (water)	<b>Molecular weight:</b> Mixture
<b>Flash point:</b> Data not available	<b>Solubility(ies):</b> Complete in water.	

## Section 10 Stability &amp; Reactivity

**Chemical stability:** Stable **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures to cause evaporation.

**Incompatible materials:** Aluminum, cyanides, phosphorous, stannous chloride, thiocyanate. Oxidizable materials including sulfur, organic materials and sodium hypophosphite.

**Hazardous decomposition products:** Nitrogen oxides.

## Section 11 Toxicological Information

**Acute toxicity:** Oral-rat LD50: 3,250 mg/kg [Ferric nitrate]

**Skin corrosion/irritation:** Data not available

**Serious eye damage/irritation:** Data not available

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

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

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

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

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes may cause irritation.

**Signs and symptoms of exposure:** To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

**Additional information:** RTECS #: NO7175000 [Ferric nitrate]

## Section 12 Ecological Information

**Toxicity to fish:** No data available

**Toxicity to daphnia and other aquatic invertebrates:** No data available

**Toxicity to algae:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport Information (US DOT / CANADA TDG)

**UN/NA number:** Not applicable

**Shipping name:** Not Regulated

**Hazard class:** Not applicable

**Packing group:** Not applicable

**Reportable Quantity:** No

**Marine pollutant:** No

**Exceptions:** Not applicable

**2016 ERG Guide #** Not applicable

## Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Ferric nitrate (solid)	Listed	1,000 lbs (454 kg)	D001	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

## Section 16 Other Information

The information contained herein 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 determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.



**Section 1 Chemical Product and Company Information**

5100 West Henrietta Rd  
PO Box 92912  
Rochester, NY 14692-9012  
Tel: (800) 962-2660

**CHEMTREC 24 Hour Emergency**  
**Phone Number (800) 424-9300**  
For laboratory use only.  
Not for drug, food or household use.

**Product** FERRIC NITRATE, NONAHYDRATE

**Synonyms** Iron(III) Nitrate, Nonahydrate

**Section 2 Hazards Identification**

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

**Signal word:** WARNING

**Pictograms:** GHS03 / GHS07

**Target organs:** Blood

**GHS Classification:**

Oxidizing solid, (Category 3)

Acute toxicity (Category 5)

Skin irritation (Category 2)

Eye irritation (Category 2A)

STOT-SE (Category 3)

**GHS Label information: Hazard statement(s):**

H272: May intensify fire; oxidizer.

H303: May be harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

**Precautionary statement(s):**

P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P220: Keep away from clothing and combustible or incompatible materials.

P221: Take any precaution to avoid mixing with combustibles or incompatible materials.

P261: Avoid breathing dust.

P264: Wash hands thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P337+P313: If eye irritation persists: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash before reuse.

P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray for extinction.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with all local, state and federal regulations.

Ca Prop 65 - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**Section 3 Composition / Information on Ingredients**

Chemical Name	CAS #	%	EINECS
Ferric nitrate, nonahydrate	7782-61-8	100%	233-899-5 (anhydrous CAS # 10421-48-4)

**Section 4 First Aid Measures**

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** CAUSES EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** CAUSES SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire Fighting Measures**

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, dry sand, alcohol foam.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Although not flammable, substance is a strong oxidizer which releases oxygen on heating, increasing the burning rate of any material with a flare-burning effect. It may cause re-ignition after a fire is extinguished.

**Section 6 Accidental Release Measures**

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Section 7 Handling & Storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from ignition sources.

**Section 8 Exposure Controls / Personal Protection**

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Iron salts, soluble, as Fe	TWA: 1 mg/m <sup>3</sup>	None	TWA: 1 mg/m <sup>3</sup>

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical & Chemical Properties**

<b>Appearance:</b> Solid. Deliquescent, pale violet crystals <b>Odor:</b> Slight nitric acid odor. <b>Odor threshold:</b> Data not available. <b>pH:</b> Data not available. <b>Melting / Freezing point:</b> 47.2°C (116°F) <b>Boiling point:</b> Data not available <b>Flash point:</b> Data not available	<b>Evaporation rate ( = 1):</b> Data not available <b>Flammability (solid/gas):</b> Data not available. <b>Explosion limits: Lower / Upper:</b> Data not available <b>Vapor pressure (mm Hg):</b> Data not available <b>Vapor density (Air = 1):</b> Data not available <b>Relative density (Specific gravity):</b> 1.68 @ 31°C <b>Solubility(ies):</b> Soluble in water.	<b>Partition coefficient:</b> Data not available <b>Auto-ignition temperature:</b> Data not available <b>Decomposition temperature:</b> Data not available. <b>Viscosity:</b> Data not available. <b>Molecular formula:</b> Fe(NO <sub>3</sub> ) <sub>3</sub> •9H <sub>2</sub> O <b>Molecular weight:</b> 404.00
--	---	---

**Section 10 Stability & Reactivity**

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Do not heat or rub with organic matter or other oxidizable substance. e.g. sulfur, sulfides, phosphides, hypophosphites, etc.

**Incompatible materials:** Aluminum, cyanides, phosphorous, stannous chloride, thiocyanate. Oxidizable materials including sulfur, organic materials and sodium hypophosphite.

**Hazardous decomposition products:** Nitrogen oxides.

**Section 11 Toxicological Information**

**Acute toxicity:** Oral-rat LD50: 3,250 mg/kg

**Skin corrosion/irritation:** Data not available

**Serious eye damage/irritation:** Data not available

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

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

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

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

**Reproductive toxicity:** Data not available

**STOT-single exposure:** The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory effects.

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

**Inhalation:** Inhalation may cause upper respiratory tract irritation.

**Ingestion:** May cause burns of the mouth, throat and stomach. Acid nature of this salt may cause corrosive damage to the gastrointestinal tract.

**Skin:** Contact with skin may cause severe local irritation or corrosion.

**Eyes:** Contact with eyes can cause severe irritation or corrosion.

**Signs and symptoms of exposure:** See Potential health effects above.

**Additional information:** RTECS #: NO7175000

**Section 12 Ecological Information**

**Toxicity to fish:** No data available

**Toxicity to daphnia and other aquatic invertebrates:** No data available

**Toxicity to algae:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal Considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport Information**

**UN/NA number:** UN1466

**Shipping name:** Ferric nitrate

**Hazard class:** 5.1

**Packing group:** III

**Reportable Quantity:** 1,000 lbs (454 kg)


**Marine pollutant:** No

**Exceptions:** Limited quantity equal to or less than 5 Kg

**2012 ERG Guide #** 140

**Section 15 Regulatory Information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERCLA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Ferric nitrate	Listed	1,000 lbs (454 kg)	D001	Listed	Not listed	C 

**Section 16 Additional Information**

The information contained herein 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 determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

**Revision Date:** October 29, 2012

**Supersedes:** January 15, 2011



# FLINN SCIENTIFIC, INC.

## Safety Data Sheet (SDS)

SDS #: 345.00

Revision Date: March 25, 2014

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Ferrous Ammonium Sulfate

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

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **WARNING**

Pictograms



### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 5). May be harmful if swallowed (H303).

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

Hazard class: Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3). May cause respiratory irritation (H335). Avoid breathing dust or fumes (P261).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Ferrous ammonium sulfate, hexahydrate	7783-85-9	$\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$	392.16	
Synonym: Mohr's salt				

### SECTION 4 — FIRST AID MEASURES

**If exposed or concerned:** Get medical advice or attention (P308+P313).

**If inhaled:** Remove victim to fresh air in a position comfortable for breathing (P304+P340).

**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:** Rinse cautiously with water for several minutes (P351).

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

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable solid.

When heated to decomposition, may emit toxic fumes.

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

**NFPA CODE**

None  
established

### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

---

**SECTION 7 — HANDLING AND STORAGE**

---

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Store in a cool, dry place. Due to a poor shelf life, store in a Flinn Chem-Saf™ bag and then inside a Flinn Saf-Stor™ can. Keep container tightly closed (P233). Use only in a hood or well-ventilated area (P271).

---

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

---

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271).

Exposure guidelines: TLV 1 mg/m<sup>3</sup> (ACGIH)

---

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

---

Pale green, crystalline powder. Odorless.

Melting point: 100 °C (decomposes)

Soluble: Water. Insoluble in alcohol.

Specific gravity: 1.865

---

**SECTION 10 — STABILITY AND REACTIVITY**

---

Avoid contact with strong acids and strong oxidizers.

Shelf life: Fair to poor, deliquescent and affected by light. See Section 7 for further information.

---

**SECTION 11 — TOXICOLOGICAL INFORMATION**

---

Acute effects: Irritant.

ORL-RAT LD<sub>50</sub>: 3250 mg/kg

Chronic effects: N.A.

IHL-RAT LC<sub>50</sub>: N.A.

Target organs: N.A.

SKN-RBT LD<sub>50</sub>: N.A.

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

---

**SECTION 12 — ECOLOGICAL INFORMATION**

---

Data not yet available.

---

**SECTION 13 — DISPOSAL CONSIDERATIONS**

---

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26a is one option.

---

**SECTION 14 — TRANSPORT INFORMATION**

---

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

N/A = Not applicable

---

**SECTION 15 — REGULATORY INFORMATION**

---

Not listed.

---

**SECTION 16 — OTHER INFORMATION**

---

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 25, 2014



# SAFETY DATA SHEET

Issuing Date 15-Jan-2014

Revision Date 15-Jan-2014

Revision Number 0

## GHS product identifier

**Product Name** Firm Grip, QDA, Tuf-Skin concentrates

## Other means of identification

**Product Code(s)** 204034

**UN-Number** UN1219

**Synonyms** None

## Recommended use of the chemical and restrictions on use

**Recommended Use** Apply to skin prior to taping, or to fingertips for improved grip

**Uses advised against** No information available

## Supplier's details

**Supplier Address**  
Cramer Products, Inc.  
153 W. Warren  
Gardner, KS 66030  
TEL: 913.856.7511

## Emergency telephone number

**Emergency Telephone Number** 913.856.7511

## Classification

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

Serious Eye Damage/Eye Irritation	Category 2
Skin Sensitization	Category 1
Specific Target Organ Systemic Toxicity (Single Exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements**Emergency Overview****Signal Word****Danger****Hazard Statements**

- Causes serious eye irritation
- May cause an allergic skin reaction
- May cause drowsiness or dizziness
- 
- Highly flammable liquid and vapor.

**Appearance** Clear to amber**Physical State** Liquid, Paste.**Odor** IPA, rosin**Precautionary Statements****Prevention**

- Wear protective gloves/protective clothing/eye protection/face protection
- Wash face, hands and any exposed skin thoroughly after handling
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Contaminated work clothing should not be allowed out of the workplace
- Use only outdoors or in a well-ventilated area
- Keep away from heat/sparks/open flames/hot surfaces - No smoking
- Keep container tightly closed
- Ground/bond container and receiving equipment
- Use explosion-proof electrical/ventilating/lighting/equipment
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Keep cool.

**General Advice**

- Specific treatment (see supplemental instructions on the administration of antidotes on this label)

**Eyes**

- 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**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- If skin irritation or rash occurs: Get medical advice/attention
- Wash contaminated clothing before reuse.

**Inhalation**

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell.

**Fire**

- In case of fire: Use CO2, dry chemical, or foam for extinction.

**Storage**

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

**Disposal**

- None

**Hazard Not Otherwise Classified (HNOC)**

Not applicable

**Other information**

No information available.

Chemical Name	CAS-No	Weight %	Trade secret
Isopropyl alcohol	67-63-0	60-100	*
Rosin	8050-09-7	10-30	*
Benzoin Tincture IPA	-	1-5	*

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

**Description of necessary first-aid measures**

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Consult a physician.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air. Administer oxygen if breathing is difficult and you are trained. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

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

**Most Important Symptoms/Effects** Difficulty in breathing. Dizziness. Drowsiness. Itching. Rashes. Red eyes, Tearing.

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to Physician** Treat symptomatically.

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Explosion Data**

**Sensitivity to Mechanical Impact**  
**Sensitivity to Static Discharge**

None.  
 Yes.

**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.

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

Remove all sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Use personal protective equipment. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing.

**Environmental Precautions****Environmental Precautions**

See Section 12 for additional Ecological Information

**Methods and materials for containment and cleaning up****Methods for Containment**

Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**

Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal. Ground and bond containers when transferring material.

**Precautions for safe handling****Handling**

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Wear personal protective equipment. Ensure adequate ventilation. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing.

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

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight.

**Incompatible Products**

Strong oxidizing agents. Acids. Acid anhydrides. Aluminum. Halogenated compounds.

**Control parameters****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m <sup>3</sup> TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>
Rosin 8050-09-7	-	(vacated) TWA: 0.1 mg/m <sup>3</sup> Formaldehyde	TWA: 0.1 mg/m <sup>3</sup> Formaldehyde

**Appropriate engineering controls****Engineering Measures**

Showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**  
**Skin and Body Protection**  
**Respiratory Protection**

Tightly fitting safety goggles.  
 Impervious gloves. Impervious clothing.  
 If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product. Provide regular cleaning of equipment, work area and clothing. Contaminated work clothing should not be allowed out of the workplace.

**Information on basic physical and chemical properties**

Physical State	Liquid, Paste	Appearance	Clear to amber
Odor	IPA, rosin	Odor Threshold	No information available
<u>Property</u>	<u>Values</u>	<u>Remarks/ - Method</u>	
pH	No data available	None known	
Melting Point/Range	No data available	None known	
Boiling Point/Boiling Range	No data available	None known	
Flash Point	No data available	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air			
upper flammability limit	No data available		
lower flammability limit	No data available		
Vapor Pressure	No data available	None known	
Vapor Density	No data available	None known	
Relative Density	No data available	None known	
Specific Gravity	No data available.	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	
Viscosity	No data available	None known	
Flammable Properties	Flammable liquids		
Explosive Properties	No data available		
Oxidizing Properties	No data available		
<u>Other information</u>			
VOC Content (%)	No data available		

**Reactivity**

No data available.

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Strong oxidizing agents. Acids. Acid anhydrides. Aluminum. Halogenated compounds.

**Hazardous decomposition products**Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).**Information on likely routes of exposure**

<b>Product Information</b>	No acute toxicity information is available for this product. Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several ingredients
<b>Inhalation</b>	May cause drowsiness and dizziness.
<b>Eye Contact</b>	Irritating to eyes.
<b>Skin Contact</b>	May cause sensitization by skin contact.
<b>Ingestion</b>	Not an expected route of exposure. May be harmful if swallowed.

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl alcohol	= 4396 mg/kg ( Rat )	12800 mg/kg ( Rat ) 12870 mg/kg ( Rabbit )	72.6 mg/L ( Rat ) 4 h
Rosin	= 7600 mg/kg ( Rat )	> 2500 mg/kg ( Rabbit )	-

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

**Symptoms** No information available.

**Delayed and immediate effects and also chronic effects from short and long term exposure**

<b>Sensitization</b>	May cause sensitization by skin contact.
<b>Mutagenic Effects</b>	No information available.
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol		Group 3		X

**IARC: (International Agency for Research on Cancer)**

Group 3: Not Classifiable as to its Carcinogenicity to Humans

**OSHA: (Occupational Safety & Health Administration)**

X - Present

<b>Reproductive Toxicity</b>	No information available.
<b>STOT - single exposure</b>	May cause drowsiness or dizziness
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration Hazard</b>	No information available.

**Numerical measures of toxicity - Product***The following values are calculated based on chapter 3.1 of the GHS document:*

LD50 Oral 4944 mg/kg; Acute toxicity estimate



LD50 Dermal 2501 mg/kg; Acute toxicity estimate

**Ecotoxicity**

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

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Isopropyl alcohol 67-63-0	EC50 96 h: > 1000 mg/L (Desmodesmus subspicatus) EC50 72 h: > 1000 mg/L (Desmodesmus subspicatus)	LC50 96 h: = 11130 mg/L static (Pimephales promelas) LC50 96 h: = 9640 mg/L flow-through (Pimephales promelas) LC50 96 h: > 1400000 µg/L (Lepomis macrochirus)		EC50 48 h: = 13299 mg/L (Daphnia magna)
Rosin 8050-09-7	EC50 72 h: = 400 mg/L (Desmodesmus subspicatus)		EC50 = 31.5 mg/L 30 min	EC50 48 h: 3.8 - 5.4 mg/L (Daphnia magna)

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

Chemical Name	Log Pow
Isopropyl alcohol	0.05

**Other Adverse Effects**

No information available.

**Waste Disposal Methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).**Contaminated Packaging** Do not re-use empty containers.**US EPA Waste Number** D001

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

Chemical Name	California Hazardous Waste
Isopropyl alcohol	Toxic Ignitable

**Note:** Product may be shipped as a Limited Quantity - DOT Ground.**DOT**

UN-Number UN1219  
 Proper shipping name Isopropanol  
 Hazard Class 3  
 Packing Group II  
 Description UN1219, Isopropanol, 3, II

**TDG**

UN-Number UN1219  
 Proper Shipping Name Isopropanol  
 Hazard Class 3  
 Packing Group II  
 Description UN1219, Isopropanol, 3, II

**International Inventories**

TSCA Exempt  
DSL Exempt

**Legend**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product 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:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Isopropyl alcohol	67-63-0	60-100	1.0

**SARA 311/312 Hazard Categories**

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

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Isopropyl alcohol	X	X	X		X
Rosin			X		X

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

<u>NFPA</u>	Health Hazard 2	Flammability 4	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health Hazard 2	Flammability 4	Physical Hazard 0	Personal Protection X

**Prepared By**

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

**Issuing Date**

15-Jan-2014

**Revision Date**

15-Jan-2014

**Revision Note**

Initial Release.

**General Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet

# Flash UHS Burnishing Creme

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 04/15/2015

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Product name : Flash UHS Burnishing Creme  
Product code : 155-1501

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Floor cleaning (liquids)

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

American Cleaning Solutions  
39-30 Review Avenue  
Long Island City, NY 11101  
T (718) 392-8080

#### 1.4. Emergency telephone number

Emergency number : INFOTRAC: 800-535-5053

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Skin Sens. 1 H317 - May cause an allergic skin reaction

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning  
Hazard statements (GHS-US) : H317 - May cause an allergic skin reaction  
Precautionary statements (GHS-US) : P261 - Avoid breathing dust/mist/spray  
P272 - Contaminated work clothing must not be allowed out of the workplace  
P280 - Wear protective gloves/eye protection/face protection  
P302+P352 - If on skin: Wash with plenty of soap and water  
P321 - Specific treatment (see First aid measures on this label)  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse  
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

#### 2.3. Other hazards

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

# Flash UHS Burnishing Creme

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	Classification (GHS-US)
(+)-limonene	(CAS No) 5989-27-5	1 - 5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317
Diethylene Glycol Monoethyl Ether	(CAS No) 111-90-0	1 - 5	Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Allow victim to breathe fresh air. Allow the victim to rest.
- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see First aid measures on this label). Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause an allergic skin reaction.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

No additional information available

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust/mist/spray.

# Flash UHS Burnishing Creme

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves/eye protection/face protection protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : milky

Odor : Citrus fruits

Odor threshold : No data available

pH : 7 - 8

Melting point : No data available

Freezing point : No data available

Boiling point : 212 - 220 °F

Flash point :  $\geq 200$  °F

Relative evaporation rate (butyl acetate=1) : No data available

Flammability (solid, gas) : No data available

Explosion limits : No data available

Explosive properties : No data available

Oxidizing properties : No data available

Vapor pressure : No data available

Relative density : 1.0029

Relative vapor density at 20 °C : Same as water

Solubility : Miscible with water.  
Water: Solubility in water of component(s) of the mixture :  
•: •: •: •: •: > 1000 g/l

Log Pow : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

### 9.2. Other information

No additional information available



# Flash UHS Burnishing Creme

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Stable under normal conditions. Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

Fume. Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

(+)-limonene (5989-27-5)	
LD50 oral rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg bodyweight; Rat; Read-across)
LD50 dermal rabbit	> 5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
ATE US (oral)	4400.000 mg/kg body weight

Diethylene Glycol Monoethyl Ether (111-90-0)	
LD50 oral rat	5445 mg/kg (Rat)
LD50 dermal rat	5940 mg/kg (Rat)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit)
LC50 inhalation rat (mg/l)	> 5.2 mg/l/4h (Rat)
ATE US (oral)	5445.000 mg/kg body weight
ATE US (dermal)	5940.000 mg/kg body weight

Skin corrosion/irritation : Not classified  
pH: 7 - 8

Serious eye damage/irritation : Not classified  
pH: 7 - 8

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

(+)-limonene (5989-27-5)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause an allergic skin reaction.

### SECTION 12: Ecological information

#### 12.1. Toxicity

# Flash UHS Burnishing Creme

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### (+)-limonene (5989-27-5)

LC50 fish 1	720 µg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 96 h; Pimephales promelas; Flow-through system; Fresh water; Experimental value)
EC50 Daphnia 1	0.36 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna; Static system; Fresh water; Experimental value)
Threshold limit algae 1	150 mg/l (EC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Desmodesmus subspicatus; Static system; Fresh water; Read-across)

### Diethylene Glycol Monoethyl Ether (111-90-0)

LC50 fish 1	12900 mg/l (LC50; 96 h; Salmo gairdneri)
EC50 Daphnia 1	3940 mg/l (EC50; 48 h)

## 12.2. Persistence and degradability

### Flash UHS Burnishing Creme

Persistence and degradability	Not established.
-------------------------------	------------------

### (+)-limonene (5989-27-5)

Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Adsorbs into the soil.
ThOD	3.29 g O <sub>2</sub> /g substance

### Diethylene Glycol Monoethyl Ether (111-90-0)

Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.20 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1.85 g O <sub>2</sub> /g substance
ThOD	1.9078849 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0.11

## 12.3. Bioaccumulative potential

### Flash UHS Burnishing Creme

Bioaccumulative potential	Not established.
---------------------------	------------------

### (+)-limonene (5989-27-5)

BCF fish 1	864.8 - 1022 (BCF; Pisces)
Log Pow	4.38 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 37 °C)
Bioaccumulative potential	Potential for bioaccumulation (4 ≥ Log Kow ≤ 5).

### Diethylene Glycol Monoethyl Ether (111-90-0)

Log Pow	-1.19 - -0.08
Bioaccumulative potential	Bioaccumulation: not applicable.

## 12.4. Mobility in soil

### (+)-limonene (5989-27-5)

Log Koc	Koc, SRC PCKOCWIN v2.0; 1120 - 6324; QSAR
---------	---

### Diethylene Glycol Monoethyl Ether (111-90-0)

Surface tension	0.032 N/m (25 °C)
-----------------	-------------------

## 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/regional/national/international regulations.

Ecology - waste materials : Avoid release to the environment.



# Flash UHS Burnishing Creme

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 14: Transport information

#### Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

#### TDG

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### (+)-limonene (5989-27-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

##### Diethylene Glycol Monoethyl Ether (111-90-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### National regulations

No additional information available

#### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

Revision date : 04/15/2015

Other information : None.

Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
H226	Flammable liquid and vapor
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

HMIS III Rating

Health : 1 Slight Hazard - Irritation or minor reversible injury possible  
Flammability : 0 Minimal Hazard - Materials that will not burn  
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.  
Personal Protection : B  
B - Safety glasses, Gloves

SDS US (GHS HazCom 2012)

# Flash UHS Burnishing Creme

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*



# SAFETY DATA SHEET

## 1. Product and Company Identification

Product identifier	Fluorescent Gas Leak Detector (4184-01, 4184-08, 4184-24, 4184-53)
Other means of identification	Not available
Recommended use	Gas Leak Detector
Recommended restrictions	None known.
Manufacturer information	Nu-Calgon 2611 Schuetz Road St. Louis, MO 63043 US Phone: 314-469-7000 / 800-554-5499 Emergency Phone: 1-800-424-9300 (CHEMTREC)
Supplier	See above.

## 2. Hazards Identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
WHMIS 2015 defined hazards	Not classified
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)	None known
WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)	None known
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Not applicable.

## 3. Composition/Information on Ingredients

### Mixture

Chemical name	Common name and synonyms	CAS number	%
1,2-Propanediol		57-55-6	10-30*

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

Composition comments	US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200. *CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.
----------------------	--

## 4. First Aid Measures

Inhalation	Not a normal route of exposure. If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
Eye contact	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.

<b>Ingestion</b>	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

## 5. Fire Fighting Measures

<b>Suitable extinguishing media</b>	Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<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>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<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>General fire hazards</b>	No unusual fire or explosion hazards noted.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

## 6. Accidental Release Measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep out of low areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Stop the flow of material, if this is without risk.  Large Spills: 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. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas. 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.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and Storage

<b>Precautions for safe handling</b>	Ensure adequate ventilation. Avoid prolonged exposure. Use care in handling/storage. Avoid contact with eyes, skin and clothing.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep away from heat, open flames or other sources of ignition. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure Controls/Personal Protection

### Occupational exposure limits

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

Components	Type	Value	Form
1,2-Propanediol (CAS 57-55-6)	TWA	155 mg/m <sup>3</sup>	Vapor and aerosol.
		10 mg/m <sup>3</sup>	Aerosol.
		50 ppm	Vapor and aerosol.

#### US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
1,2-Propanediol (CAS 57-55-6)	TWA	10 mg/m <sup>3</sup>	Aerosol.

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
--------------------------------	--

<b>Exposure guidelines</b>	See above
<b>Appropriate engineering controls</b>	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.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Safety goggles or glasses.
<b>Skin protection</b>	
<b>Hand protection</b>	Rubber gloves. Confirm with a reputable supplier first.
<b>Other</b>	As required by employer code. Wear suitable protective clothing.
<b>Respiratory protection</b>	Not normally required if good ventilation is maintained. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
<b>Thermal hazards</b>	Not applicable.
<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>	Clear
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Fluorescent Yellow
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	Not available.
<b>pH</b>	8.7
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Pour point</b>	Not available.
<b>Specific gravity</b>	1.02 or 8.48 lbs/gal
<b>Partition coefficient (n-octanol/water)</b>	Not available
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available
<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>	Not available.
<b>Auto-ignition temperature</b>	Not available
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	325 - 425 cPs

---

## 10. Stability and Reactivity

---

<b>Reactivity</b>	This product may react with strong oxidizing agents.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Do not mix with other chemicals.
<b>Incompatible materials</b>	Strong oxidizing agents.

## 11. Toxicological Information

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

**Information on likely routes of exposure**

**Ingestion** May cause stomach distress, nausea or vomiting.

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** 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**

Components	Species	Test Results
1,2-Propanediol (CAS 57-55-6)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, 24 Hours 20800 mg/kg
<i>Inhalation</i>		
LC50	Not available	
<i>Oral</i>		
LD50	Dog	19000 mg/kg
	Guinea pig	184000 mg/kg 19700 mg/kg
	Mouse	24900 mg/kg 23900 mg/kg
	Rabbit	14800 mg/kg
	Rat	22000 mg/kg 20000 mg/kg

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

**Exposure minutes** Not available.

**Erythema value** Not available.

**Oedema value** Not available.

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

**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**

**Respiratory sensitization** Not available.

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

**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, NTP, or OSHA.

**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** Not available.

<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not available.
<b>Chronic effects</b>	Prolonged inhalation may be harmful.

## 12. Ecological Information

<b>Ecotoxicity</b>	See below		
<b>Ecotoxicological data</b>			
<b>Components</b>		<b>Species</b>	<b>Test Results</b>
1,2-Propanediol (CAS 57-55-6)			
Crustacea	EC50	Daphnia	10000 mg/L, 48 Hours
<b>Aquatic</b>			
Crustacea	EC50	Water flea (Daphnia magna)	> 10000 mg/L, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	710 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.		

## 13. Disposal Considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	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>	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

<b>Transport of Dangerous Goods (TDG) Proof of Classification</b>	Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.
<b>U.S. Department of Transportation (DOT)</b>	Not regulated as dangerous goods.
<b>Transportation of Dangerous Goods (TDG - Canada)</b>	Not regulated as dangerous goods.
<b>IATA/ICAO (Air)</b>	Not regulated as dangerous goods.
<b>IMDG (Marine Transport)</b>	Not regulated as dangerous goods.

## 15. Regulatory Information

<b>Canadian federal regulations</b>	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.
<b>Export Control List (CEPA 1999, Schedule 3)</b>	Not listed.
<b>Greenhouse Gases</b>	Not listed.
<b>Precursor Control Regulations</b>	Not regulated.
<b>WHMIS 2015 Exemptions</b>	Not applicable



## US federal regulations

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

The chemical listed in Section 3 is on the TSCA Chemical Substances Inventory.

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

Not 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 - No  
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

See below

### US - Minnesota Haz Subs: Listed substance

1,2-Propanediol (CAS 57-55-6) Listed.

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

1,2-Propanediol (CAS 57-55-6)

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

1,2-Propanediol (CAS 57-55-6) Listed.

### US. Massachusetts RTK - Substance List

Not regulated.

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

Not regulated.

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

1,2-Propanediol (CAS 57-55-6)

### US. Rhode Island RTK

1,2-Propanediol (CAS 57-55-6)

### 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.

## Inventory status

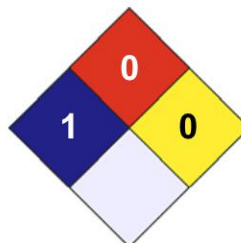
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*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	/ 1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X





**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available. 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.

**Issue date**

19-July-2018

**Version #**

01

**Effective date**

19-July-2018

**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.



# SAFETY DATA SHEET

2/27/2023

## SECTION I - IDENTIFICATION

### Material Name

FOLK ART ARTIST ACRYLIC PAINT

### Company Information

Plaid Enterprises, Inc.  
3225 Westech Drive  
Norcross, GA 30092  
Phone: 1-678-291-8259  
Fax: 1-678-291-8363  
Email: htrundle@PlaidOnline.Com

For transportation emergencies only call: 1-678-291-8259

For health emergencies call the Poison Control Center: 1-800-222-1222

## SECTION II - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

There are no GHS label elements.

## SECTION III - HAZARDOUS INGREDIENTS

<u>Hazardous Ingredients</u>	<u>CAS/EC #</u>	<u>PEL/TLV (MG/M#)</u>	<u>Max % Weight</u>	<u>NTP</u>	<u>IARC</u>
None					

## SECTION IV - FIRST AID MEASURES

FIRST AID MEASURES: NONE REQUIRED. NO ACUTE HEALTH EFFECTS EXPECTED.

## SECTION V - FIRE FIGHTING MEASURES

FLASH POINT (METHOD): N/A

AUTOIGNITION TEMPERATURE: N/A

EXPLOSION LIMITS IN AIR (% BY VOLUME): NOT EXPLOSIVE

EXTINGUISHING MEDIA: NO SPECIAL MEDIA REQUIRED

FIRE FIGHTING PROCEDURES: NO SPECIAL FIRE FIGHTING PROCEDURES REQUIRED

UNUSUAL FIRE & EXPLOSION HAZARDS: NOT COMBUSTIBLE

## **SECTION VI - ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE A MATERIAL IS SPILLED: Clean up in accordance with all applicable regulations. Absorb spillage with non-combustible, absorbent material. For waste disposal, see Section XIII

## **SECTION VII - HANDLING AND STORAGE**

PRECAUTIONS TO BE TAKEN DURING STORAGE AND HANDLING: Good industrial hygiene practice requires that exposure be maintained below the TLV. This is preferably achieved through the provision of adequate ventilation. When exposure cannot be adequately controlled in this way, personal respiratory protection should be employed.

## **SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION**

RESPIRATORY PROTECTION AND SPECIAL VENTILATION REQUIREMENTS: NONE REQUIRED

OTHER PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC): NONE REQUIRED

WORK/HYGIENE PRACTICES: NONE REQUIRED

ENGINEERING CONTROLS: NONE REQUIRED

## **SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES**

BOILING POINT: N/A

VAPOR PRESSURE: N/A

SPECIFIC VAPOR DENSITY (AIR=1): N/A

SOLUBILITY IN WATER: N/A

MELTING POINT: N/A

FLASH POINT (METHOD): N/A

SPECIFIC GRAVITY: N/A

REACTIVITY IN WATER: NON-REACTIVE

## **SECTION X - STABILITY AND REACTIVITY**

HAZARDOUS POLYMERIZATION PRODUCTS: N/A

STABILITY: STABLE CONDITIONS TO AVOID: N/A

INCOMPATIBILITY (MATERIALS TO AVOID): N/A

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and smoke

## **SECTION XI - TOXICOLOGICAL INFORMATION**

ACUTE EFFECTS ASSOCIATED WITH USE OF THIS MATERIAL: NONE EXPECTED

The summated LD50 is 8876.8 mg/kg.

The summated LC50 is 5002.1 mg/cubic meter.

This product is not considered to be a known or suspected human carcinogen by NTP, IARC or OSHA (see section III)

## **SECTION XII - ECOLOGICAL INFORMATION**

HARMFUL EFFECTS KNOWN OTHER THAN THOSE ASSOCIATED WITH SUSPENDED INERT SOLIDS IN WATER.

## **SECTION XIII - DISPOSAL CONSIDERATIONS**

RCRA HAZARD CLASS (40 CFR 261): THIS PRODUCT IS NOT CLASSIFIED AS A HAZARDOUS WASTE.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

## **SECTION XIV - TRANSPORTATION INFORMATION**

U.S. DOT (49 CFR 172.101): THIS IS NOT A HAZARDOUS MATERIAL AS CLASSIFIED BY CFR 172.101.

## **SECTION XV - REGULATORY INFORMATION**

CONTENTS OF THIS SDS COMPLY WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200

EPA SARA TITLE III CHEMICAL LISTINGS:

SECTION 302.4 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):

NONE

SECTION 313 TOXIC CHEMICALS (40 CFR 372):

ALUMINUM

INTERNATIONAL REGULATIONS

CANADIAN WHMIS: THIS PRODUCT IS A CONTROLLED PRODUCT UNDER CANADA'S WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. IT CONTAINS THE FOLLOWING TOXIC OR HIGHLY TOXIC MATERIALS:

ALUMINUM

COPPER PHTHALOCYANINE

FERRIC OXIDE

MICA

PROPYLENE GLYCOL

Under CPSC's consumer product regulations (16CFR1500.3 and 1500.14), this product has the following required acute and chronic hazard labeling:

**NONE**

## **SECTION XVI - OTHER INFORMATION**

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

**LAST REVISION DATE: 2/27/2023**

**Prepared by Duke OEM Toxicology**

## COLOR INFORMATION

THIS SDS APPLIES TO THE FOLLOWING COLORS WHICH ARE ASSOCIATED WITH HAZARDOUS AND/OR NON-HAZARDOUS INGREDIENTS

Product Color	SKU	Hazardous Ingredient
11929 HAZY MOON	689658	(NONE)
11930 COTTAGE ROSE		(NONE)
11931 WILD ROSE		(NONE)
11932 CRYSTAL BLUE		(NONE)
12025 MANDARIN	689665	(NONE)
12067 DAYBREAK		(NONE)
17600 METALLIC PEARL WHITE		(NONE)
17601 METALLIC RUBY		(NONE)
17602 METALLIC PERIDOT		(NONE)
17603 METALLIC EMERALD		(NONE)
17604 SILVER STERLING		(NONE)
17605 PURE GOLD		(NONE)
17606 METALLIC SEQUIN BLACK		(NONE)
20034 APPLE RED	659931	(NONE)
20035 BERRY WINE	659931	(NONE)
20036 THICKET	659933	(NONE)
20037 LIME GREEN	659934	(NONE)
2131 BRIGHT GREEN		(NONE)
2233 PARISIAN PINK	411208	(NONE)
224 BLACK CHERRY	411211	(NONE)
2241 APPLE ORCHARD		(NONE)
2249 PUEBLO		(NONE)
225 PUMPKIN	49348	(NONE)
2253 EGGPLANT		(NONE)
226 YELLOW LEMON	49349	(NONE)
227 BRIGHT GREEN	49350	(NONE)
228 HOLLY LEAF		(NONE)
229 LIGHT FLESH		(NONE)
231 REAL BROWN	411216	(NONE)
2328 VIOLET PANSY		(NONE)
2390 FOLK ART PODGE PINK		(NONE)
2392 FOLK ART PODGE YELLOW		(NONE)
2425 MADEIRA		(NONE)
2426 GOLDEN GLOW		(NONE)
2427 ALFALFA		(NONE)
2428 CASTAWAY		(NONE)
2429 WINDSOR BLUE		(NONE)
2430 UNIFORM BLUE		(NONE)
2435 GENTLE VIOLET		(NONE)
2436 FRENCH LILAC		(NONE)
2480 ROYAL GOLD		(NONE)
2485 SEASHELL PINK		(NONE)
2495 GILDED OAK		(NONE)
2496 MIDNIGHT GARDEN		(NONE)
2499 SKYLINE		(NONE)
2500 GREENSCAPE		(NONE)
2502 RUSTED PIPE		(NONE)
2545 PINK BALOON		(NONE)
2546 BRIGHT PINK	659924	(NONE)
2547 PINK MELLON		(NONE)
2548 APPLE RED	324432	(NONE)
2550 DAFFODIL YELLOW	659925	(NONE)
2551 MOON YELLOW		(NONE)
2552 CITRUS GREEN		(NONE)
2553 LIME GREEN	196516	(NONE)
2554 CLASSIC GREEN	659926	(NONE)
2555 DEEP OCEAN BLUE		(NONE)

Product Color	SKU	Hazardous Ingredient
2557 PERFECT PURPLE		(NONE)
2558 CINNAMON	659929	(NONE)
2559 COFFEE LATTE	659928	(NONE)
2560 BARK BROWN		(NONE)
2561 STEEL GRAY	196527	(NONE)
2565 CRUSHED CORAL	324434	(NONE)
2568 CLOUDY DAY	324440	(NONE)
2569 ASH	324441	(NONE)
2570 METALLIC CHOCOLATE BROWN	324443	(NONE)
2578 NEW LEAF GREEN		(NONE)
2579 FRESH CUT GRASS		(NONE)
2581 PATINA		(NONE)
2585 LAVENDER		(NONE)
2587 LOOK AT ME BLUE		(NONE)
2588 METALLIC ICE BLUE	324442	(NONE)
2596 SKY MIST		(NONE)
2597 BLUE BELLE		(NONE)
2621 GREEN SEA		(NONE)
2623 INK SPOT		(NONE)
2636 VILLA GREEN		(NONE)
2637 SUCCULENT		(NONE)
2638 PRAIRIE SAGE		(NONE)
2639 BLUE ECHO		(NONE)
2655 GOLDENROD		(NONE)
2658 THUNDER GRAY		(NONE)
2680 PURE ORANGE		(NONE)
2681 MEDIUM GRAY		(NONE)
2682 SUNNY YELLOW		(NONE)
2716 GLOW NEUTRAL		(NONE)
2720 GLOW PURPLE		(NONE)
2850 NEON PINK		(NONE)
2852 NEON ORANGE		(NONE)
2853 NEON YELLOW		(NONE)
2854 NEON GREEN		(NONE)
2855 NEON BLUE		(NONE)
2856 NEON PURPLE		(NONE)
2875 JELLYBEAN PINK		(NONE)
2878 PUMPKIN ORANGE		(NONE)
2935 NUTMEG		(NONE)
319 TICKLED PINK		(NONE)
320 JAMAICAN SEA		(NONE)
322E GLOW NEUTRAL		(NONE)
323E GLOW GREEN		(NONE)
324E NEON PINK		(NONE)
36221 METALLIC GOLDEN TOUCH		(NONE)
36222 METALLIC GLAM GOLD		(NONE)
36223 METALLIC SHIMMERING STEEL		(NONE)
36250 ROSETTE PINK	689640	(NONE)
36251 DESERT FLOWER	689643	(NONE)
36252 PINK FROSTING	689645	(NONE)
36253 WILD ORCHID	689661	(NONE)
36255 CANYON SUNSET	689649	(NONE)
36256 LUSH MEADOW	689652	(NONE)
36259 FESTIVE FUSCHIA	689662	(NONE)
36260 ROASTED PECAN	689656	(NONE)
36269 METALLIC BRONZE MEDAL		(NONE)
36270 METALLIC RADIANT COPPER		(NONE)
36271 METALLIC GREEN SILK		(NONE)
36272 METALLIC SPARKLING FUCHSIA		(NONE)
36273 VINTAGE TEA ROSE	689671	(NONE)
36274 MOSSY MEADOW		(NONE)
36275 WILD WASABI		(NONE)
36276 VINTAGE WHITE		(NONE)
36355 CONCH SHELL		(NONE)
36356 SILVER MARLIN		(NONE)
36357 LIGHT BLUE	689674	(NONE)

Product Color	SKU	Hazardous Ingredient
36358 MEDIUM YELLOW	689677	(NONE)
36359 VINTAGE WHITE	689680	(NONE)
36375 NEON PURPLE		(NONE)
36376 NEON YELLOW		(NONE)
36377 NEON GREEN		(NONE)
36379 GLOW IN DARK YELLOW		(NONE)
36380 GLOW IN DARK PINK		(NONE)
370 GESSO	196496	(NONE)
401 TRUE BLUE	607663	(NONE)
402 LIGHT BLUE	607671	(NONE)
403 NAVY BLUE	607689	(NONE)
405 TEAL	607762	(NONE)
406 HUNTER GREEN	607770	(NONE)
407 KELLY GREEN	607788	(NONE)
408 GREEN	607796	(NONE)
410 LAVENDER	607929	(NONE)
411 PURPLE	608000	(NONE)
412 MAGENTA	609909	(NONE)
413 PINK	611798	(NONE)
414 CARDINAL RED	611814	(NONE)
415 MAROON		(NONE)
416 DARK BROWN		(NONE)
417 TEDDY BEAR BROWN		(NONE)
419 TEDDY BEAR TAN		(NONE)
420 LINEN	611889	(NONE)
425 MEDIUM GRAY	611947	(NONE)
429 WINTER WHITE		(NONE)
432 SUNFLOWER	176567	(NONE)
434 BERRY WINE		(NONE)
435 NAPTHOL CRIMSON	176569	(NONE)
436 ENGINE RED	176546	(NONE)
437 LIPSTICK RED	176572	(NONE)
438 BALLET PINK	176573	(NONE)
440 VIOLET PANSY	176578	(NONE)
441 STERLING BLUE		(NONE)
444 PATINA	176588	(NONE)
450 PARCHMENT	176555	(NONE)
452 RAW SIENNA	176557	(NONE)
455 MED. YELLOW	211767	(NONE)
456 BURGUNDY		(NONE)
458 SAP GREEN		(NONE)
459 GREEN LIGHT		(NONE)
462 BURNT UMBER	211772	(NONE)
4621 MINTED AQUA	514705	(NONE)
465 SKY BLUE	257340	(NONE)
4657 CAMEO BLUSH		(NONE)
4658 PISTACHIO	483772	(NONE)
4659 GOLDEN OCHRE		(NONE)
4660 HOT SAFFRON	483773	(NONE)
4661 MAUVE DUST		(NONE)
4662 FRESH FERN		(NONE)
4663 CROCODILE		(NONE)
4664 DUTCH AQUA	659927	(NONE)
4664E DUTCH AQUA		(NONE)
4665 DOLPHIN		(NONE)
4666 LILAC ICE		(NONE)
4667 FADED JADE		(NONE)
467 ITALIAN SAGE		(NONE)
4670 CASCADE		(NONE)
4697 STEEL GRAY	514995	(NONE)
472 MUSHROOM		(NONE)
476 ASPHALTUM	411215	(NONE)
479 PURE BLACK	257347	(NONE)
480 TITANIUM WHITE	257321	(NONE)
481 AQUA	257341	(NONE)
484 ULTRAMARINE	659930	(NONE)

Product Color	SKU	Hazardous Ingredient
485 RAW UMBER	257334	(NONE)
491 CHRISTMAS GREEN METAL		(NONE)
493 BRIGHT RED METALLIC	049351	(NONE)
49911 ORCHARD ROSE	689669	(NONE)
503 YELLOW CITRON		(NONE)
506 SILVER ANNIVERSARY		(NONE)
509 SUNNY YELLOW	411213	(NONE)
5102 FOLK ART PAINTED SURFACES RUST RED 4 OZ	483819	(NONE)
5103 FOLK ART PAINTED SURFACES RUST BROWN 4OZ	483820	(NONE)
5104 FOLK ART PAINTED SURFACES LIGHT MOSS 4OZ	483821	(NONE)
513 CAYMAN BLUE	390061	(NONE)
515 VINTAGE WHITE	411206	(NONE)
515618 PRIMER		(NONE)
516 LIGHT LAVENDER	390066	(NONE)
521 LEMON YELLOW		(NONE)
524 CALYPSO SKY	390067	(NONE)
526 SOFT APPLE		(NONE)
527 FOREST MOSS	411218	(NONE)
577 SAHARA GOLD METALLIC	293480	(NONE)
580 TAUPE METALLIC		(NONE)
602 COUNTRY TWILL	694844	(NONE)
609 THUNDER BLUE	695445	(NONE)
6101E METALLIC ROSE GOLD		(NONE)
6102 METALLIC ROSE GOLD		(NONE)
611 BARNYARD RED		(NONE)
614 BUTTERCREAM		(NONE)
627 TANGERINE		(NONE)
628 PURE ORANGE	002022	(NONE)
632 ROSE PINK		(NONE)
633 BABY PINK	002071	(NONE)
634 HOT PINK	002089	(NONE)
6362 PERSIAN BLUE		(NONE)
6363 DIOXAZINE VIOLET		(NONE)
6364 WICKER WHITE	622497	(NONE)
6365 ENGINE RED	622498	(NONE)
6366 SCHOOL BUS YELLOW	622499	(NONE)
6367 HUNTER GREEN		(NONE)
6368 NAVY BLUE	622500	(NONE)
6369 PURPLE		(NONE)
6370 COFFEE BEAN	622501	(NONE)
6371 LINEN	622502	(NONE)
6372 MEDIUM GRAY		(NONE)
6373 LICORICE	622503	(NONE)
639 FRENCH BLUE	002147	(NONE)
640 LIGHT PERIWINKLE		(NONE)
641 BRILLIANT BLUE		(NONE)
644 GRASS GREEN		(NONE)
6446 COTTAGE WHITE	514695	(NONE)
6447 CONCH SHELL	514696	(NONE)
6448 DAYBREAK	514701	(NONE)
645 BASIL GREEN		(NONE)
6450 PLANTATION ROSE	514697	(NONE)
6451 VINTAGE TEA ROSE		(NONE)
6452 FIRE CORAL	514700	(NONE)
6453 PRARIE SUNSET	514699	(NONE)
6455 WILD WASABI	514702	(NONE)
6456 MOSSY MEADOW	514703	(NONE)
6458 MARINA MIST	514706	(NONE)
6459 OCEAN VIEW	514707	(NONE)
6460 ADRIFT	514704	(NONE)
6462 ICED COFFEE	514711	(NONE)
6463 PALE GRAY	514712	(NONE)
6465 SILVER MARLIN	514714	(NONE)
6467 STARLIGHT GOLD		(NONE)
6470 VICTORIAN VIOLET		(NONE)
6472 CLASSIC FRENCH GRAY		(NONE)



Product Color	SKU	Hazardous Ingredient
6473 PEPPERCORN		(NONE)
6478 NEON BLUE		(NONE)
649 WARM WHITE	002253	(NONE)
6498 COCOA		(NONE)
651 METALLIC BLUE TOPAZ		(NONE)
652 METALLIC ROSE SHIMMER		(NONE)
653 METALLIC EMERALD GREEN		(NONE)
654 METALLIC AMETHYST	658104	(NONE)
655 METALLIC AQUAMARINE	658112	(NONE)
656 METALLIC BLUE SAPPHIRE	658120	(NONE)
657 METALLIC REGAL RED		(NONE)
658 ANTIQUE GOLD	658146	(NONE)
659 SHIMMER PEARL WHITE	658153	(NONE)
660 PURE GOLD	658161	(NONE)
661 METALLIC SEQUIN BLACK	658179	(NONE)
662 SHIMMER SILVER STERLING	658187	(NONE)
663 METALLIC SOLID BRONZE		(NONE)
664 MET. COPPER	615021	(NONE)
665 MET. GARNET RED		(NONE)
666 MET. ANTIQUE COPPER	615047	(NONE)
667 MET. GUNMETAL GRAY	615054	(NONE)
668 MET. PLUM	615062	(NONE)
670 MET. BLUE PEARL	615088	(NONE)
671 MET. PERIDOT	615096	(NONE)
675 MET. CHAMPAGNE	615138	(NONE)
676 MET. INCA GOLD	615146	(NONE)
679 TURNER'S YELLOW		(NONE)
708 DOVE GRAY	695239	(NONE)
720 COBALT BLUE	695270	(NONE)
7228 GLOW IN THE DARK RED		(NONE)
7229 GLOW IN THE DARK BLUE		(NONE)
735 LEMON CUSTARD	694729	(NONE)
736 SCHOOL BUS YELLOW	616011	(NONE)
817 ANTIQ WOODN' BUCKET BROWN		(NONE)
819 ANTIQ APPLE BUTTER BROWN		(NONE)
821 BABY PINK	413620	(NONE)
827 SCHOOL BUS YELLOW	413624	(NONE)
830 HUNTER GREEN	352872	(NONE)
871 PURE GOLD	352874	(NONE)
871E METALLIC PURE GOLD		(NONE)
872E METALLIC ANTIQUE GOLD		(NONE)
873 SILVER METALLIC	352875	(NONE)
873E METALLIC SILVER STERLING		(NONE)
874 FRENCH BLUE	413629	(NONE)
875 TRUE BLUE	352873	(NONE)
878 PURPLE	413630	(NONE)
879 LINEN	413619	(NONE)
881 COFFEE BEAN	413631	(NONE)
901 WICKER WHITE	694299	(NONE)
904 LEMONADE	694323	(NONE)
905 BUTTERCUP		(NONE)
917 YELLOW OCHRE	694430	(NONE)
918 YELLOW LIGHT		(NONE)
923 CLOVER	695072	(NONE)
924 THICKET		(NONE)
925 WROUGHT IRON	694489	(NONE)
927 OLD IVY		(NONE)
936 BARNWOOD		(NONE)
938 LICORICE	694521	(NONE)
939 BUTTER PECAN	695163	(NONE)
940 COFFEE BEAN	694539	(NONE)
942 HONEYCOMB	615195	(NONE)
943 BURN'T SIENNA	695171	(NONE)
944 NUTMEG		(NONE)
949 WARM BISQUE		(NONE)
953 CAMEL	695189	(NONE)

Product Color	SKU	Hazardous Ingredient
954 FRESH FOLIAGE		(NONE)
957 BURGUNDY		(NONE)
958 CHRISTMAS RED		(NONE)
961 TURQUOISE	615252	(NONE)
964 MIDNIGHT	615278	(NONE)
989 LICORICE	352871	(NONE)
99229 METALLIC JADE SHIMMER		(NONE)
99230 METALLIC TURQUOISE SHIMMER		(NONE)
99231 METALLIC VIOLET SHIMMER		(NONE)
99254 TOASTED TERRA COTTA		(NONE)
99255 DIJON		(NONE)
99256 SMOKY JADE		(NONE)
99257 MYSTIC TURQUOISE		(NONE)
99258 GALAXY BLUE		(NONE)
994 ENGINE RED	413621	(NONE)
873A METALLIC SILVER 8 OZ 3-PACK		(NONE)
658A METALLIC ANTIQUE GOLD 2 OZ 3-PACK		(NONE)
662A METALLIC SILVER STERLING 2 OZ 3-PACK		(NONE)
871A METALLIC PURE GOLD 8 OZ 3-PACK		(NONE)
660A METALLIC PURE GOLD 2 OZ 3-PACK		(NONE)
50849 BRIGHT PINK		(NONE)
50850 BERRY WINE		(NONE)
50851 LIME GREEN		(NONE)
50852 OCEAN VIEW		(NONE)
50853 AQUA		(NONE)
50854 LIGHT LAVENDER		(NONE)
50855 ROASTED PECAN		(NONE)
50856 HAZY HORIZON		(NONE)
50857 NEWPORT BLUE		(NONE)
50858 BLUE ODESSY		(NONE)
50859 PURPLE RHAPSODY		(NONE)
50860 COFFEE GROUNDS		(NONE)
50861 GRAY FROST		(NONE)
50862 SMOKE SCREEN		(NONE)
51002 SAND DOLLAR		(NONE)
51003 SPICED CORAL		(NONE)
51004 CREAMY CORAL		(NONE)
51005 MANGO MAMBO		(NONE)
51006 SUNNY CITRUS		(NONE)
51007 GREEN WHISPER		(NONE)
51008 TROPICAL TIDE		(NONE)
51009 BLUE OASIS		(NONE)
51010 WATERY BLUE		(NONE)
51011 LAVENDER HAZE		(NONE)
51012 POWDERED PINK		(NONE)
51013 PAPAYA WHIP		(NONE)
51014 PEACH BREEZE		(NONE)
51015 LIME TWIST		(NONE)
51016 CARIBBEAN GREEN		(NONE)
51017 SEA SPRAY		(NONE)
51018 MOUNTAIN STREAM		(NONE)
51019 BLUE HYACINTH		(NONE)
51020 ORCHID WISP		(NONE)
51021 TANGLEWOOD		(NONE)
51022 EARTHY OCHRE		(NONE)
51023 CRAZED CRANBERRY		(NONE)
51024 DEEP VIRIDIAN		(NONE)
51025 EMPRESS TEAL		(NONE)
51071 ANTIQUING MEDIUM		(NONE)
427 IVORY WHITE		(NONE)
431 FRENCH VANILLA		(NONE)
433 TERRACOTTA OLIVE		(NONE)
449 GREEN		(NONE)
987 WICKER WHITE		(NONE)

## BRAND NAMES

THIS SDS APPLIES TO THE FOLLOWING BRAND NAMES

<b>Brand Name</b>	<b>SKU</b>	<b>SKU Description</b>
FOLK ART ARTIST ACRYLIC PAINT		
FOLK ART ARTISTS' PIGMENT ACRYLIC PAINT		
FOLK ART GESSO		
FOLK ART ANTIQUING		
FOLK ART PODGE		
FOLK ART GLOW		
FOLK ART PAINTED FINISHES		
HOME FRONT		
ART MINDS		
7513 CABANA COVE		
13494 FOLK ART NEON GLOW		
5070 FOLK ART FESTIVAL	483778	
7512 FOLK ART FARMHOUSE	622636	
7514 UNDER THE SEA	622637	
7517 RAINBOW FLOWER	622638	

## 1. Identification

**Product identifier** Ammoniated Glass Cleaner

**Other means of identification**

**Product code** 91720

**Recommended use** Glass Cleaner  
Glass cleaners

**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** Gases under pressure Compressed gas

**Health hazards** Not classified.

**Environmental hazards** Not classified.

**OSHA defined hazards** Not classified.

**Label elements**



**Signal word** Warning

**Hazard statement** May cause mild eye and skin irritation. Contains gas under pressure; may explode if heated.

**Precautionary statement**

**Prevention** Pressurized container: Do not pierce or burn, even after use.

**Response** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention.

**Storage** Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

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

**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Isobutane		75-28-5	5 - < 10
isopropyl alcohol		67-63-0	5 - < 10
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	If symptoms develop move victim to fresh air. Get medical attention if symptoms 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	In the unlikely event of swallowing contact a physician or poison control center.
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	Contents under pressure.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

## 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	Refer to attached safety data sheets and/or instructions for use. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. 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. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not re-use empty containers. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol.  Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Refrigeration recommended. 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

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

Components	Type	Value
isopropyl alcohol (CAS 67-63-0)	PEL	980 mg/m3 400 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Isobutane (CAS 75-28-5)	STEL	1000 ppm
isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm
	TWA	200 ppm

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

Components	Type	Value
Isobutane (CAS 75-28-5)	TWA	1900 mg/m3 800 ppm
isopropyl alcohol (CAS 67-63-0)	STEL	1225 mg/m3 500 ppm
	TWA	980 mg/m3 400 ppm

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

\* - For sampling details, please see the source document.

### 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).

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear appropriate chemical resistant clothing.

**Respiratory protection** If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

When using do not smoke. 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

### Appearance

**Physical state** Liquid.  
**Form** Aerosol. Compressed gas. Watery liquid.  
**Color** Colorless.

**Odor** Ammoniacal.

**Odor threshold** Not available.

**pH** 10.7 - 11.3 @25°C

**Melting point/freezing point** Not available.

**Initial boiling point and boiling range** -11.2 °F (-24 °C) estimated

**Flash point** 53.6 °F (12.0 °C) estimated

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** 1.9 % estimated

**Flammability limit - upper (%)** 12 % estimated

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** 4115 hPa estimated

**Vapor density** Not available.

**Relative density** Not available.

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** 750.2 °F (399 °C) estimated

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Other information**

**Aerosol spray ignition distance** 0 in

**Density** 5.60 lbs/gal estimated

**Flame extension** 0 in

**Flammability (flash back)** 0 in

**Heat of combustion (NFPA 30B)** 3.51 kJ/g estimated

**Percent volatile** 99 % estimated

**Specific gravity** 0.99 - 1

**VOC (Weight %)** 10 % estimated

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** Hazardous polymerization does not occur.

**Conditions to avoid** Avoid temperatures exceeding the flash point. Contact with incompatible materials.

**Incompatible materials** Acids. Strong oxidizing agents. Nitrates. Isocyanates. Fluorine. Chlorine.

**Hazardous decomposition products** No hazardous decomposition products are known.

## 11. Toxicological information

**Information on likely routes of exposure**

**Ingestion** Expected to be a low ingestion hazard.

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact** 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
Ammoniated Glass Cleaner (CAS Mixture)		
<b>Acute</b>		
<i>Inhalation</i>		
LC50	Mouse	1040 mg/l, 1 Hours estimated
<i>Oral</i>		
LD50	Mouse	72000 mg/kg estimated
	Rat	94 g/kg estimated
<i>Other</i>		
LD50	Mouse	30180 mg/kg estimated
	Rat	21980 mg/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

**Respiratory sensitization** Not available.

**Skin sensitization** 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.

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

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product	Species	Test Results
Ammoniated Glass Cleaner (CAS Mixture)		
<b>Aquatic</b>		
Crustacea	EC50 Daphnia	38947.3672 mg/l, 48 hours estimated
Fish	LC50 Fish	7567.4902 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)

Isobutane	2.76
isopropyl alcohol	0.05

**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

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. 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>	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>	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. Do not re-use empty containers.

### 14. Transport information

#### DOT

<b>UN number</b>	ID8000
<b>UN proper shipping name</b>	Consumer commodity
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	9
<b>Packing group</b>	Not applicable.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Packaging exceptions</b>	167
<b>Packaging non bulk</b>	167
<b>Packaging bulk</b>	None

#### IATA

<b>UN number</b>	ID8000
<b>UN proper shipping name</b>	Consumer commodity
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	No.
<b>ERG Code</b>	9L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.

#### IMDG

<b>UN number</b>	ID8000
<b>UN proper shipping name</b>	Consumer commodity
<b>Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	9
<b>Packing group</b>	Not applicable.
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No.
<b>EmS</b>	Not available.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	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 listed or exempted from listing on the U.S. EPA TSCA Inventory List.  
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)

Isobutane (CAS 75-28-5)	Listed.
isopropyl alcohol (CAS 67-63-0)	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)

<b>Hazard categories</b>	Immediate Hazard - No
	Delayed Hazard - No
	Fire Hazard - No
	Pressure Hazard - Yes
	Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

<b>SARA 311/312 Hazardous chemical</b>	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)

Isobutane (CAS 75-28-5)

<b>Safe Drinking Water Act (SDWA)</b>	Not regulated.
---------------------------------------	----------------

### US state regulations

#### US. Massachusetts RTK - Substance List

Isobutane (CAS 75-28-5)  
isopropyl alcohol (CAS 67-63-0)

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

Isobutane (CAS 75-28-5)  
isopropyl alcohol (CAS 67-63-0)

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

Isobutane (CAS 75-28-5)  
isopropyl alcohol (CAS 67-63-0)

#### US. Rhode Island RTK

Isobutane (CAS 75-28-5)  
isopropyl alcohol (CAS 67-63-0)

## 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** 06-10-2014

**Revision date** 12-02-2014

**Version #** 02

**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.

**Revision Information** Product and Company Identification: Product Codes  
Hazards Identification: Shared US and Canadian Categories  
Hazard(s) identification: Hazard statement  
Composition / Information on Ingredients: Ingredients  
Physical & Chemical Properties: Multiple Properties  
Toxicological Information: Toxicological Data  
Ecological Information: Ecotoxicity  
Transport Information: Proper Shipping Name/Packing Group  
Regulatory Information: United States  
Regulatory information: US federal regulations  
Material Attributes & Uses; Experimental Data: Product Uses  
HazReg Data: Europe - Non EU  
GHS: Classification  
Consumer Products: CPSC Hazard Categories



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Fullsparkle Spray Polish

**Other means of identification**

**Product code** 91730

**Recommended use** Furniture Maintenance

**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** Gases under pressure Compressed gas

**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**



**Signal word** Warning

**Hazard statement** Contains gas under pressure; may explode if heated. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

**Precautionary statement**

**Prevention** Avoid release to the environment.

**Response** If exposed or concerned: Get medical advice/attention.

**Storage** Protect from sunlight. Store in a well-ventilated place.

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

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

**Supplemental information** 11.67% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 11.67% 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	%
ISOBUTANE		75-28-5	3 - < 5

Chemical name	Common name and synonyms	CAS number	%
DIMETHICONE		63148-62-9	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

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

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
<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>	Contents under pressure.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Fire-fighting equipment/instructions</b>	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.

#### 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. 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.
<b>Methods and materials for containment and cleaning up</b>	Refer to attached safety data sheets and/or instructions for use. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. 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.
<b>Environmental precautions</b>	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS. 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

<b>Precautions for safe handling</b>	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not re-use empty containers. Avoid prolonged exposure. Use only in well-ventilated areas. 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

Level 1 Aerosol.

Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. 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

#### US. ACGIH Threshold Limit Values

Components	Type	Value
ISOBUTANE (CAS 75-28-5)	STEL	1000 ppm

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

Components	Type	Value
ISOBUTANE (CAS 75-28-5)	TWA	1900 mg/m3 800 ppm

### 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

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

#### Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear suitable protective clothing.

**Respiratory protection** If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

When using do not smoke. 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>	Viscous Liquid
<b>Physical state</b>	Liquid.
<b>Form</b>	Aerosol. Compressed gas. Emulsion
<b>Color</b>	White.
<b>Odor</b>	Matches to Standard
<b>Odor threshold</b>	Not available.
<b>pH</b>	6
<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.

### Upper/lower flammability or explosive limits

<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.

Vapor pressure	4184.84 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	5.70 lbs/gal estimated
Flame extension	0 in
Flammability (flash back)	0 in
Heat of combustion (NFPA 30B)	4 kJ/g estimated
Percent volatile	95.9 % estimated
Specific gravity	0.68 estimated
VOC (Weight %)	9.5 % estimated

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

Ingestion	Concentration of product is an aspiration hazard that can be harmful or fatal if swallowed and enters airways. However, due to the form and method of deliverance of product, ingestion is not a primary route of exposure.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	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
Fullsparkle Spray Polish (CAS Mixture)		
<b>Acute</b>		
<i>Dermal</i>		
LD50	Rabbit	33670.0352 ml/kg estimated
<i>Inhalation</i>		
LC50	Mouse	1238.0952 mg/l, 1 Hours estimated
	Rat	5789.4736 mg/l, 4 Hours estimated
<i>Oral</i>		
LD50	Rat	89473.6875 mg/kg estimated

Product	Species	Test Results
		24915.8242 ml/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		
Respiratory sensitization	Not available.	
Skin sensitization	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.	
Chronic effects	Prolonged inhalation may be harmful.	

## 12. Ecological information

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

Product		Species	Test Results
Fullsparkle Spray Polish (CAS Mixture)			
Aquatic			
Crustacea	EC50	Daphnia	79754.3828 mg/l, 48 hours estimated
Fish	LC50	Fish	760.2296 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)			
ISOBUTANE		2.76	
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

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. 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.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	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>	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. Do not re-use empty containers.



## 14. Transport information

### DOT

UN number	ID8000
UN proper shipping name	Consumer commodity
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions	167
Packaging non bulk	167
Packaging bulk	None

### IATA

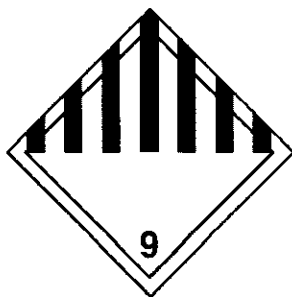
UN number	ID8000
UN proper shipping name	Consumer commodity
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	9L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

### IMDG

UN number	ID8000
UN proper shipping name	Consumer commodity
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

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.

DOT; IATA; IMDG



## 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 listed or exempted from listing 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)**

ISOBUTANE (CAS 75-28-5)

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 - Yes

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)**

ISOBUTANE (CAS 75-28-5)

**Safe Drinking Water Act (SDWA)** Not regulated.**US state regulations****US. Massachusetts RTK - Substance List**

ISOBUTANE (CAS 75-28-5)

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

ISOBUTANE (CAS 75-28-5)

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

ISOBUTANE (CAS 75-28-5)

**US. Rhode Island RTK**

ISOBUTANE (CAS 75-28-5)

**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** 12-08-2014**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.