

**SAFETY DATA SHEET****SECTION 1. IDENTIFICATION****Product identifier used on the label**: **Trailer Brightener****Other means of identification** : 00356, 00357, 00358**Recommended use of the chemical and restrictions on use**: Acid cleaner, Stainless steel cleaner  
Restriction on use: None known**Chemical family**

: Mixture.

**Name, address, and telephone number of the manufacturer:****FPPF Chemical Company, Inc.**117 West Tupper Street  
Buffalo, NY, USA  
14201

Manufacturer's Telephone # : 1-800-735-3773

**24 Hr. Emergency Tel #** : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).**Name, address, and telephone number of the supplier:**

Refer to manufacturer

**SECTION 2. HAZARDS IDENTIFICATION****Classification of the chemical**

Blue liquid. Acrid odor.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

## Classification

Acute Toxicity, oral - Category 2  
Acute toxicity (dermal) -Category 1  
Acute toxicity, inhalation - Category 2  
Eye Damage/Irritation - Category 1  
Skin Corrosion/Irritation - Category 1**Label elements***Hazard pictogram(s)**Signal Word*

DANGER!

*Hazard statement(s)*Fatal if swallowed.  
Fatal in contact with skin.  
Fatal if inhaled.  
Causes severe skin burns and eye damage.

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### Precautionary statement(s)

Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Do not get in eyes, on skin, or on clothing.  
 Do not breathe mist or vapor.  
 Use only outdoors or in a well-ventilated area.  
 In case of inadequate ventilation wear respiratory protection.  
 Wear protective gloves/clothing and eye/face protection.

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

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

Dispose of contents/container in accordance with local regulation.

### Other hazards

Other hazards which do not result in classification: Corrosive to respiratory system Contact with most metals will generate flammable hydrogen gas.

Environmental Precautions: See Section 12 for more environmental information.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
Hydrofluoric acid	Fluoric acid	7664-39-3	10.0 - 30.0
Sulfuric acid	Vitriol oil	7664-93-9	3.0 - 7.0
2-butoxyethanol	Ethylene glycol monobutyl ether butyl cellosolve Glycol Ether EB EGBE	111-76-2	1.0 - 5.0
Quaternary ammonium compounds, (hydrogenated tallow alkyl) bis(hydroxyethyl) methyl, ethoxylated, chlorides	PEG-15 Hydrogenated Tallowmonium Chloride	68187-69-9	1.0 - 5.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

### SECTION 4. FIRST-AID MEASURES

#### Description of first aid measures

- Ingestion* : Seek immediate medical attention/advice. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
- Inhalation* : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Seek immediate medical attention/advice.
- Skin contact* : Remove/Take off immediately all contaminated clothing. Immediately flush skin with gently flowing, running water for at least 20 minutes. Seek immediate medical attention/advice.
- Eye contact* : Immediately flush eyes with running water for at least 20 minutes. Seek immediate medical attention/advice.

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

- : Causes severe skin burns and eye damage. Corrosive to the eyes and may cause severe damage including blindness. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Fatal if swallowed, in contact with skin or if inhaled.

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

- : Immediate medical attention is required.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

##### *Suitable extinguishing media*

- : Dry chemical, carbon dioxide and foam.

##### *Unsuitable extinguishing media*

- : Do not use water. May react with water.

#### Special hazards arising from the substance or mixture / Conditions of flammability

- : Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

#### Flammability classification (OSHA 29 CFR 1910.106)

- : Non-flammable.

#### Hazardous combustion products

- : Carbon oxides; Sulphur oxides; Hydrogen fluoride gas; formaldehyde; irritating fumes and smoke.

#### Special protective equipment and precautions for firefighters

##### *Protective equipment for fire-fighters*

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

##### *Special fire-fighting procedures*

- : Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

- : All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading.

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

- : Ventilate area of release. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. In case of acid solution, neutralize with excess soda ash or sodium bicarbonate, mix and scoop up slurry. Wash residual with water. Do not use combustible absorbents, such as sawdust. Bond and ground transfer containers and equipment to avoid static accumulation. Pick up and transfer to properly labeled containers. Contaminated absorbent material may pose the same hazards as the spilled product. Contact the proper local authorities.

#### Special spill response procedures

- : In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).  
US CERCLA Reportable quantity (RQ): Hydrofluoric acid (100 lbs / 45.4 kg); Sulfuric acid (1000 lbs / 454 kg)

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### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling**

: Use in a well-ventilated area. Wear suitable protective equipment during handling. Do not ingest. Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and open flames. Keep away from combustible material. Avoid contact with incompatible materials. Wash thoroughly after handling.

**Conditions for safe storage** : Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

**Incompatible materials** : Strong bases, Strong oxidizing agents, Strong reducing agents, Metals, Water, Arsenic oxides, Phosphorus pentoxide, Vinyl acetate, Ammonia, Ethylenediamine, Perchlorates, Potassium permanganate, Sodium Hydroxide, Halogens, Acetylides, Alkalies.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
	Hydrofluoric acid	0.5 ppm (F)	N/Av	3 ppm (F)
Sulfuric acid	0.2 mg/m <sup>3</sup> (thoracic fraction)	N/Av	1 mg/m <sup>3</sup>	N/Av
2-butoxyethanol	20 ppm	N/Av	50 ppm (240 mg/m <sup>3</sup> ) (skin)	N/Av
Quaternary ammonium compounds, (hydrogenated tallow alkyl) bis(hydroxyethyl) methyl, ethoxylated, chlorides	N/Av	N/Av	N/Av	N/Av

**Exposure controls**

**Ventilation and engineering measures**

: Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof electrical and ventilating equipment. In case of insufficient ventilation wear suitable respiratory equipment.

**Respiratory protection** : If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable approved respiratory protection. If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

**Skin protection** : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye / face protection** : Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary.

**Other protective equipment** : Wear resistant clothing and boots. Other equipment may be required depending on workplace standards. An eyewash station and safety shower should be made available in the immediate working area.

**General hygiene considerations**

: Do not breathe mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Blue liquid.

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**Odour** : Acrid odor.  
**Odour threshold** : N/Av  
**pH** : 1.0  
**Melting Point/Freezing point** : N/Av  
**Initial boiling point and boiling range**  
: N/Av  
**Flash point** : N/Av  
**Flashpoint (Method)** : N/Av  
**Evaporation rate (BuAe = 1)** : N/Av  
**Flammability (solid, gas)** : N/Av  
**Lower flammable limit (% by vol.)**  
: N/Av  
**Upper flammable limit (% by vol.)**  
: N/Av  
**Oxidizing properties** : None known.  
**Explosive properties** : Not explosive  
**Vapour pressure** : N/Av  
**Vapour density** : N/Av  
**Relative density / Specific gravity**  
: 1.02 - 1.253  
**Solubility in water** : Soluble  
**Other solubility(ies)** : N/Av  
**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution**  
: N/Av  
**Auto-ignition temperature** : N/Av  
**Decomposition temperature** : N/Av  
**Viscosity** : N/Av  
**Volatiles (% by weight)** : 100 ( as water and acid)  
**Volatile organic Compounds (VOC's)**  
: N/Av  
**Absolute pressure of container**  
: N/Av  
**Flame projection length** : N/Av  
**Other physical/chemical comments**  
: No additional information.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : No dangerous reaction known under conditions of normal use.  
**Chemical stability** : Stable under normal conditions.  
**Possibility of hazardous reactions**  
: Hazardous polymerization does not occur.  
**Conditions to avoid** : Avoid heat and open flame. Ensure adequate ventilation, especially in confined areas.  
Avoid contact with water.  
**Incompatible materials** : See Section 7 (Handling and Storage) for further details.  
**Hazardous decomposition products**  
: None known, refer to hazardous combustion products in Section 5.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

**Routes of entry inhalation** : YES  
**Routes of entry skin & eye** : YES  
**Routes of entry Ingestion** : YES

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### Routes of exposure skin absorption

: YES

### Potential Health Effects:

#### Signs and symptoms of short-term (acute) exposure

##### *Sign and symptoms Inhalation*

: Harmful or fatal if inhaled. Inhalation of high concentrations of fumes or mists may cause severe irritation and corrosive damage to the nose, throat and upper respiratory tract. Inhalation may cause headache, nausea and central nervous effects such as dizziness, coordination difficulties and unconsciousness. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.

##### *Sign and symptoms ingestion*

: Harmful or fatal if swallowed. Causes severe irritation, swelling, corrosive burns and damage in mouth and throat. May be absorbed and cause symptoms similar to those for inhalation.

##### *Sign and symptoms skin*

: Corrosive to skin. Causes severe burns, symptoms may be delayed. May be absorbed and cause symptoms similar to those for inhalation.

##### *Sign and symptoms eyes*

: Corrosive to eyes. Chemical burns, corneal damage, and possibly blindness can result from direct contact. May be absorbed and cause symptoms similar to those for inhalation.

#### Potential Chronic Health Effects

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin. Repeated or prolonged exposure may result in kidney effects. In extreme cases, tooth erosion could result. Prolonged exposure may cause skeletal fluorosis (weakened bone structure).

#### Mutagenicity

: Not expected to be mutagenic in humans.

#### Carcinogenicity

: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP. IARC has classified "strong inorganic acid mists containing sulphuric acid" as a known carcinogen (IARC category 1). This classification does not apply to this product; it only applies to mists containing sulphuric acid, and not to sulphuric acid or sulphuric acid mixtures.

#### Reproductive effects & Teratogenicity

: Not expected to cause reproductive effects.

#### Sensitization to material

: Not expected to be a skin or respiratory sensitizer.

#### Specific target organ effects

: Eyes, skin, respiratory system, digestive system, central nervous system. This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

#### Medical conditions aggravated by overexposure

: Pre-existing skin, eye, respiratory and central nervous system disorders.

#### Synergistic materials

: Not available.

#### Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<b>LC<sub>50</sub>(4hr)</b>	<b>LD<sub>50</sub></b>	
	<b><u>inh, rat</u></b>	<b><u>(Oral, rat)</u></b>	<b><u>(Rabbit, dermal)</u></b>
Hydrofluoric acid	655 ppm	N/Av	N/Av
Sulfuric acid	255 mg/m <sup>3</sup>	2140 mg/kg	N/Av
2-butoxyethanol	450 ppm (2.175 mg/L) (vapour)	530 mg/kg	400 - 500 mg/kg
Quaternary ammonium compounds, (hydrogenated tallow alkyl) bis(hydroxyethyl) methyl, ethoxylated, chlorides	N/Av	N/Av	N/Av

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**Other important toxicological hazards**

: None known or reported by the manufacturer.

**SECTION 12. ECOLOGICAL INFORMATION**
**Ecotoxicity** : No data is available on the product itself.

**Ecotoxicity data:**

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Hydrofluoric acid	7664-39-3	48 Hr LC50 Leuciscus idus: 660 mg/L	N/Av	N/Av
Sulfuric acid	7664-93-9	96 Hr LC50 Brachydanio rerio: >500 mg/L [static]	N/Av	N/Av
2-butoxyethanol	111-76-2	1490 mg/L (Bluegill sunfish)	> 100 mg/L (Zebra fish)	None.
Quaternary ammonium compounds, (hydrogenated tallow alkyl) bis(hydroxyethyl) methyl, ethoxylated, chlorides	68187-69-9	N/Av	N/Av	N/Av

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Hydrofluoric acid	7664-39-3	48 Hr EC50 Daphnia species: 270 mg/L	N/Av	N/Av
Sulfuric acid	7664-93-9	24 Hr EC50 Daphnia magna: 29 mg/L	N/Av	N/Av
2-butoxyethanol	111-76-2	835 mg/L (Daphnia magna)	100 mg/L	None.
Quaternary ammonium compounds, (hydrogenated tallow alkyl) bis(hydroxyethyl) methyl, ethoxylated, chlorides	68187-69-9	N/Av	N/Av	N/Av

<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Hydrofluoric acid	7664-39-3	N/Av	N/Av	N/Av
Sulfuric acid	7664-93-9	N/Av	N/Av	N/Av
2-butoxyethanol	111-76-2	911 mg/L/72hr (Green algae)	286 mg/L/72hr	None.
Quaternary ammonium compounds, (hydrogenated tallow alkyl) bis(hydroxyethyl) methyl, ethoxylated, chlorides	68187-69-9	N/Av	N/Av	N/Av

**Persistence and degradability**

: No data is available on the product itself.

**Bioaccumulation potential**

: No data is available on the product itself.

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<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Hydrofluoric acid (CAS 7664-39-3)	-1.4	no bioaccumulation
Sulfuric acid (CAS 7664-93-9)	-2.20(estimated)	no bioaccumulation
2-butoxyethanol (CAS 111-76-2)	0.8	0.97

**Mobility in soil** : No data is available on the product itself.

**Other Adverse Environmental effects**

: The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.





### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal** : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container.

**Methods of Disposal** : Dispose of in accordance with federal, provincial and local hazardous waste laws.

**RCRA** : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
IMDG	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrofluoric and sulfuric acid)	8	II	
<b>IMDG Additional information</b>	Consult the IMDG regulations for exceptions.				
ICAO/IATA	UN3264	Corrosive liquid, acidic, inorganic, n.o.s. (Hydrofluoric and sulfuric acid)	8	II	
<b>ICAO/IATA Additional information</b>	Refer to ICAO/IATA Packing Instruction				
TDG	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrofluoric and sulfuric acid)	8	II	
<b>TDG Additional information</b>	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass.				
49CFR/DOT	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hydrofluoric and sulfuric acid)	8	II	
<b>49CFR/DOT Additional information</b>	May be shipped as LIMITED QUANTITY when transported in quantities no larger than 1 Litre, in packages not exceeding 30 kg gross mass.				

**Special precautions for user** : Appropriate advice on safety must accompany the package.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.



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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

### SECTION 15 - REGULATORY INFORMATION

#### US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Hydrofluoric acid	7664-39-3	Yes	100 lb/ 45.4 kg	100 lb TPQ	Yes	0.1%
Sulfuric acid	7664-93-9	Yes	1000 lb/ 454 kg	1000 lb TPQ	Yes	0.1%
2-butoxyethanol	111-76-2	Yes	None.	None.	No	N/Ap
Quaternary ammonium compounds, (hydrogenated tallow alkyl) bis(hydroxyethyl) methyl, ethoxylated, chlorides	68187-69-9	Yes	N/Ap	N/Av	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Health hazards (Acute toxicity ; Eye Damage ; Skin corrosion ). Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

#### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Hydrofluoric acid	7664-39-3	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Sulfuric acid	7664-93-9	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
2-butoxyethanol	111-76-2	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Quaternary ammonium compounds, (hydrogenated tallow alkyl) bis(hydroxyethyl) methyl, ethoxylated, chlorides	68187-69-9	No	N/Ap	No	No	No	No	No	No

#### Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS Classification: See Section 2.

#### International Information:

Components listed below are present on the following International Inventory list:

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Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Hydrofluoric acid	7664-39-3	231-634-8	Present	Present	(1)-306	KE-20198	Present	HSR001537, HSR001568, HSR001569, HSR001570, HSR001589 (dilution)
Sulfuric acid	7664-93-9	231-639-5	Present	Present	(1)-724; (1)-430	KE-32570	Present	HSR001572, HSR001573, HSR001588 (dilution)
2-butoxyethanol	111-76-2	203-905-0	Present	Present	(7)-97; (2)-407	KE-04134	Present	HSR001154
Quaternary ammonium compounds, (hydrogenated tallow alkyl) bis(hydroxyethyl) methyl, ethoxylated, chlorides	68187-69-9	N/Av	Present	Present	N/Av	KE-30031	Present	May be used as a component in a product covered by a group standard, but is not approved for use as a chemical in its own right.

## SECTION 16. OTHER INFORMATION

## Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- DOT: Department of Transportation
- EPA: Environmental Protection Agency
- HMIS: Hazardous Materials Identification System
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- MSHA: Mine Safety and Health Administration
- N/Av: Not Applicable
- N/Av: Not Available
- NFPA: National Fire Protection Association
- NIOSH: National Institute of Occupational Safety and Health
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- RCRA: Resource Conservation and Recovery Act
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TPQ: Threshold Planning Quantity
- TSCA: Toxic Substance Control Act
- TWA: Time Weighted Average
- WHMIS: Workplace Hazardous Materials Identification System

## References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2018.
- 2. International Agency for Research on Cancer Monographs, searched 2018.
- 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2018 (Chempendium, HSDB and RTECS).
- 4. Material Safety Data Sheets from manufacturer.
- 5. US EPA Title III List of Lists - March 2015 version.
- 6. California Proposition 65 List - November 23, 2018 version.
- 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2018.

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**Preparation Date (mm/dd/yyyy)**

: 03/05/2019

**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

**HMIS Rating**

: \* - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe  
*Health: 0                      Flammability: 0                      Reactivity: 0*

**NFPA Rating**

0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe  
: *Health: 0                      Flammability: 0                      Instability: 0                      Special Hazards: 0*

<p><b>Prepared for:</b> FPPF Chemical Company, Inc. 117 West Tupper Street Buffalo, NY, USA 14201 Telephone: 1-800-735-3773 Please direct all enquiries to FPPF Chemical Company</p>	
<p><b>Prepared by:</b> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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