



# Shine-O-La (AFCO 5344)

Safety Data Sheet

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

Revision Date: 05/17/2015

Version: 1.0

## SECTION 1: IDENTIFICATION

### Product Identifier

**Product Form:** Mixture

**Product Name:** Shine-O-La (AFCO 5344)

**Product Code:** AFCO 5344

### Intended Use of the Product

Acid foam cleaner. Effective for the removal of hardness scale, rust, and silicate deposits. For professional use only.

### Name, Address, and Telephone of the Responsible Party

#### **Company**

Alex C. Fergusson, LLC.  
800 Development Avenue  
Chambersburg, PA 17201  
T 800-345-1329

[www.afcocare.com](http://www.afcocare.com)

### Emergency Telephone Number

**Emergency number** : 1-800-424-9300 (CHEMTREC)

## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the Substance or Mixture

#### **Classification (GHS-US)**

Met. Corr. 1 H290  
Acute Tox 4 (Oral) H302  
Skin Corr. 1B H314  
Eye Dam. 1 H318  
Aquatic Acute 3 H402

### Label Elements

#### **GHS-US Labeling**

#### **Hazard Pictograms (GHS-US)**



#### **Signal Word (GHS-US)**

: Danger

#### **Hazard Statements (GHS-US)**

: H290 - May be corrosive to metals  
H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H402 - Harmful to aquatic life

#### **Precautionary Statements (GHS-US)**

: P234 - Keep only in original container.  
P260 - Do not breathe mist, spray, vapors.  
P264 - Wash hands, forearms, and exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection, face protection, protective clothing, protective gloves.  
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor/physician.  
P321 - Specific treatment (see Section 4).  
P330 - Rinse mouth.  
P363 - Wash contaminated clothing before reuse.  
P390 - Absorb spillage to prevent material damage.  
P405 - Store locked up.  
P406 - Store in corrosive resistant container with a resistant inner liner.  
P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

### Other Hazards

**Other Hazards:** May be corrosive to the respiratory tract. When heated to decomposition, emits toxic fumes. Contact with some metals may evolve flammable hydrogen gas.

**Unknown Acute Toxicity (GHS-US)** Not available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

Name	Product identifier	% (w/w)	Classification (GHS-US)
Water	(CAS No) 7732-18-5	60-70	Not classified
Phosphoric acid	(CAS No) 7664-38-2	10-20	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives	(CAS No) 85536-14-7	10-20	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Ammonium hydrogen fluoride	(CAS No.) 1341-49-7	5-10	Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Eye Dam. 1, H318
Nonylphenol ethoxylates	(CAS No) 9016-45-9	0.1-1	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Chronic 2, H411
2-Butoxyethanol	(CAS No) 111-76-2	0.1-1	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** FIRST AID MUST BE STARTED IMMEDIATELY. Speed in removing product from skin or eyes is of primary importance. All persons who may be exposed to this product, and their supervisors, should be familiar with the First Aid procedures.

**Inhalation:** Immediately remove the victim to an uncontaminated atmosphere. CALL A PHYSICIAN. Administer oxygen as soon as possible. Oxygen inhalation may be repeated at half-hour intervals for a total of three or four hours until no shortness of breath is present and the victim's normal skin color has returned. Keep the victim warm.

**Skin Contact:** Immediately shower with copious amounts of water within seconds after contact or suspected contact, and completely remove all clothing while in the shower. Stay in the shower until assured that all traces of product are removed which may take up to 30 minutes or longer. EXAMINATION OF AND TREATMENT BY A PHYSICIAN IS RECOMMENDED AS QUICKLY AS POSSIBLE. IT MAY BE NECESSARY TO TRANSPORT THE VICTIM TO THE NEAREST HOSPITAL EMERGENCY ROOM. Remember also that concentrated product

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causes immediate pain, but dilute product solutions may not cause redness, burning or pain until several minutes or even hours have elapsed.

**Eye Contact:** Flush eyes immediately with large quantities of clean water while holding the eyelids apart. Continue flushing at 15-minute intervals, alternating with the following treatment: Apply ice compress while awaiting examination by an eye physician. It may be necessary to take victim to the nearest hospital emergency room. For eye pain, a drop of 0.5% pontacaine hydrochloride may be instilled in the eye. Do not use oils or ointments.

**Ingestion:** CALL A PHYSICIAN IMMEDIATELY. Drink large amounts of water to dilute. Do not induce vomiting. Several glasses of milk or several ounces of milk of magnesia may be given for their soothing effect.

### **Most Important Symptoms and Effects Both Acute and Delayed**

#### **Acute Symptoms:**

**Inhalation:** Mild exposure can irritate nose, throat and respiratory system. Onset of symptoms may be delayed for several hours. Severe exposure can cause nose and throat burns, lung inflammation and pulmonary edema. Also depletes calcium levels in the body if not promptly treated, resulting in death due to hypocalcemia.

**Skin Contact:** Both liquid and vapor can cause severe burns which may not be immediately painful or visible. Hydrofluoric acid will penetrate skin and attack underlying tissues and bone. Large burns of 25 square inches or more may also cause hypocalcemia which can be fatal. Solutions as dilute as 2% or lower may cause burns.

**Eye Contact:** Both liquid and vapor can cause irritation or corneal burns and conjunctivitis. Solutions as dilute as 2% may cause burns.

**Ingestion:** Can cause severe mouth, throat, and stomach burns and be fatal if swallowed. Even with small amounts or dilute solutions, profound and likely fatal hypocalcemia is likely to occur unless medical treatment is promptly initiated.

**Chronic Symptoms:** Repeated overexposure may lead to possible liver and kidney damage.

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention.

## **SECTION 5: FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. A heavy water stream may spread burning liquid.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Thermal decomposition generates : Corrosive vapors. Reacts violently with strong bases. May generate explosive hydrogen gas when in contact with metals.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Do not breathe fumes from fires or vapors from decomposition. Stop leak if safe to do so. Do not allow runoff from fire fighting to enter drains or water sources.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Phosphorus oxides. Carbon oxides (CO, CO<sub>2</sub>). Sulfur oxides . Nitrogen oxides. Hydrogen fluoride. Ammonia.

### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Do not allow product to spread into the environment. Do NOT breathe (vapors, mist, spray). Do not get in eyes, on skin, or on clothing

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### **For Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate area.

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### Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to environment.

### Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Cautiously neutralize spilled product with soda ash or lime. Absorb and/or contain spill with inert material, then place in suitable container. Ventilate area. Contact competent authorities after a spill.

### Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Additional Hazards When Processed:** When heated to decomposition, corrosive vapors are released. Contact with metals may evolve flammable hydrogen gas.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Do not store in glass. Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep away from extremely high temperatures and incompatible materials.

**Incompatible Materials:** Glass. Strong bases. Strong oxidizers. Metals.

### Specific End Use(s)

Acid foam cleaner. Effective for the removal of hardness scale, rust, and silicate deposits. For professional use only.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

<b>Phosphoric acid (7664-38-2)</b>		
Mexico	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Mexico	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
USA ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
USA IDLH	US IDLH (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Ontario	OEL STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Ontario	OEL TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
Québec	VECD (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Québec	VEMP (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
<b>2-Butoxyethanol (111-76-2)</b>		
Mexico	OEL TWA (mg/m <sup>3</sup> )	120 mg/m <sup>3</sup>
Mexico	OEL TWA (ppm)	26 ppm
Mexico	OEL STEL (mg/m <sup>3</sup> )	360 mg/m <sup>3</sup>
Mexico	OEL STEL (ppm)	75 ppm
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	240 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	50 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	24 mg/m <sup>3</sup>
USA NIOSH	NIOSH REL (TWA) (ppm)	5 ppm
USA IDLH	US IDLH (ppm)	700 ppm
Ontario	OEL TWA (ppm)	20 ppm

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Québec	VEMP (mg/m <sup>3</sup> )	97 mg/m <sup>3</sup>
Québec	VEMP (ppm)	20 ppm

### Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Safety glasses. Face shield. Corrosionproof clothing. Gloves. Protective goggles. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical goggles or safety glasses. Chemical goggles or face shield.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear approved mask.

**Consumer Exposure Controls:** Do not eat, drink, or smoke during use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Opaque hazy viscous
Odor	: Moderate acidic
Odor Threshold	: Not available
pH	: < 1
Relative Evaporation Rate (butylacetate=1)	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: 97.8 °C (208.04 °F)
Flash Point	: Not flammable
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not flammable
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20 °C	: Not available
Specific Gravity	: 1.04
Solubility	: Complete in water.
Partition coefficient: n-octanol/water	: Not available
Viscosity	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact.
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge.

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### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Thermal decomposition generates : Corrosive vapors are released when heated to decomposition. Corrosive to some metals. Contact with metals may generate explosive hydrogen gas. Reacts violently with strong bases.

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

**Possibility of Hazardous Reactions:** Hazardous reactions will not occur under normal conditions.

**Conditions to Avoid:** Extremely high temperatures. Prolonged contact with metals. Incompatible materials.

**Incompatible Materials:** Glass. Strong bases. Strong oxidizers. Metals.

**Hazardous Decomposition Products:** Thermal decomposition generates : Corrosive vapors. Carbon oxides (CO, CO<sub>2</sub>). Phosphorus oxides. Sulfur oxides. Nitrogen oxides. Hydrogen fluoride. Ammonia.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified.

**LD50 and LC50 Data:** Not available.

**Skin Corrosion/Irritation:** Causes severe skin burns. **pH:** <1

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**pH:** <1

**Respiratory or Skin Sensitization:** Not classified.

**Germ Cell Mutagenicity:** Not classified.

**Teratogenicity:** Not available.

**Carcinogenicity:** Not classified.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified.

**Reproductive Toxicity:** Not classified.

**Specific Target Organ Toxicity (Single Exposure):** Not classified.

**Aspiration Hazard:** Not classified.

**Symptoms/Injuries After Inhalation:** Contact may cause immediate severe irritation progressing quickly to chemical burns

**Symptoms/Injuries After Skin Contact:** Causes severe skin burns.

**Symptoms/Injuries After Eye Contact:** Causes serious eye damage.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

#### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

<b>Water (7732-18-5)</b>	
LD50 Oral Rat	> 90000 mg/kg
<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b>	
LD50 Oral Rat	1219 mg/kg
<b>2-Butoxyethanol (111-76-2)</b>	
LD50 Oral Rat	470 mg/kg
LD50 Dermal Rat	1680 mg/kg
LC50 Inhalation Rat (ppm)	450 ppm/4h
ATE (dermal)	0.680 mg/kg body weight
ATE (gases)	450.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
<b>2-Butoxyethanol (111-76-2)</b>	
IARC Group	3
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity.
<b>Phosphoric acid (7664-38-2)</b>	
LD50 Oral Rat	1530 mg/kg
LD50 Dermal Rabbit	2730 mg/kg

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LC50 Inhalation Rat	> 850 mg/m <sup>3</sup> (Exposure time: 1 h)
<b>Ammonium hydrogen fluoride (1341-49-7)</b>	
LD50 Oral Rat	No data available
<b>Nonylphenol ethoxylates (9016-45-9)</b>	
LD50 Oral Rat	2590 mg/kg
LD50 Dermal Rabbit	1780 µl/kg

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity** : Harmful to aquatic life

<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b>	
LC50 Fish 1	>1-10 mg/l (Exposure time: 96 h)
EC50 Daphnia 1	>1-10 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>2-Butoxyethanol (111-76-2)</b>	
LC50 Fish 1	1490 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC 50 Fish 2	2950 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

**Persistence and Degradability** Not available

### Bioaccumulative Potential

<b>Shine-O-La (AFCO 5344)</b>	
Bioaccumulative Potential	Not established.
<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b>	
Log Pow	2 (at 23 °C)
<b>2-Butoxyethanol (111-76-2)</b>	
Log Pow	0.81 (at 25 °C)

**Mobility in Soil** Not available

### Other Adverse Effects

**Other Information:** Harmful to aquatic life .Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Sewage Disposal Recommendations:** Do not empty into drains; dispose of this material and its container in a safe way.

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 In Accordance with DOT

**Proper Shipping Name** : Ammonium hydrogen difluoride solution  
**Hazard Class** : 8  
**Identification Number** : UN2817  
**Label Codes** : 8, 6.1  
**Packing Group** : II  
**ERG Number** : 154



### 14.2 In Accordance with IMDG

**Proper Shipping Name** : Ammonium hydrogen difluoride solution  
**Hazard Class** : 8  
**Identification Number** : UN2817  
**Packing Group** : II  
**Label Codes** : 8, 6.1  
**EmS-No. (Fire)** : F-A  
**EmS-No. (Spillage)** : S-B  
**MFAG Number** : 154



### 14.3 In Accordance with IATA

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**Proper Shipping Name** : Ammonium hydrogen difluoride solution  
**Packing Group** : II  
**Identification Number** : UN2817  
**Hazard Class** : 8  
**Label Codes** : 8, 6.1  
**ERG Code (IATA)** : 8L



### 14.4 In Accordance with TDG

**Proper Shipping Name** : Ammonium hydrogen difluoride solution  
**Packing Group** : II  
**Hazard Class** : 8  
**Identification Number** : UN2817  
**Label Codes** : 8,6.1



## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

<b>Shine-O-La (AFCO 5344)</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Immediate (acute) health hazard Delayed(chronic) health hazard

<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

<b>Phosphoric acid (7664-38-2)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

<b>2-Butoxyethanol (111-76-2)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

<b>Water (7732-18-5)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

<b>Ammonium hydrogen fluoride (1341-49-7)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

<b>Nonylphenol ethoxylates (9016-45-9)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory

### US State Regulations

<b>2-Butoxyethanol (111-76-2)</b>
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Acute U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - Special Health Hazards Substances List U.S. - New York - Occupational Exposure Limits - Skin Designations U.S. - New York - Occupational Exposure Limits - TWAs U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Texas - Effects Screening Levels - Long Term U.S. - Texas - Effects Screening Levels - Short Term

<b>Phosphoric acid (7664-38-2)</b>
U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728) RTK - U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - New Jersey - Special Health Hazards Substances List U.S. - New York - Occupational Exposure Limits - TWAs U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances RTK - U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List RTK - U.S. - Pennsylvania - RTK (Right to Know) List






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U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term
<b>Ammonium hydrogen fluoride (1341-49-7)</b>
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
RTK - U.S. - Pennsylvania - RTK (Right to Know) List
<b>Nonylphenol ethoxylates (9016-45-9)</b>
U.S. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

### Canadian Regulations

<b>Shine-O-La (AFCO 5344)</b>		
WHMIS Classification	Class E - Corrosive Material Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
		

<b>Benzenesulfonic acid, 4-C10-13-sec-alkyl derivatives (85536-14-7)</b>
Listed on the Canadian DSL (Domestic Substances List) inventory.

<b>Phosphoric acid (7664-38-2)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Listed on the Canadian Ingredient Disclosure List	
IDL Concentration 1 %	
WHMIS Classification	Class E - Corrosive Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>2-Butoxyethanol (111-76-2)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Listed on the Canadian Ingredient Disclosure List	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects

<b>Water (7732-18-5)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria

<b>Ammonium hydrogen fluoride (1341-49-7)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
Listed on the Canadian Ingredient Disclosure List	
WHMIS Classification	Class E - Corrosive Material Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects

<b>Nonylphenol ethoxylates (9016-45-9)</b>	
Listed on the Canadian DSL (Domestic Substances List) inventory.	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects

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

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 5/17/2015

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**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

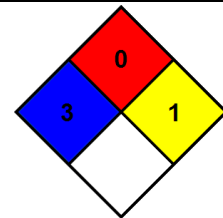
### GHS Full Text Phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (Dermal) Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (Inhalation:vapour) Category 4
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 4	Flammable liquids Category 4
Met. Corr. 1	Corrosive to metals Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
H227	Combustible liquid
H290	May be corrosive to metals
H301	Toxic if swallowed
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

**NFPA Health Hazard** : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

**NFPA Fire Hazard** : 0 - Materials that will not burn.

**NFPA Reactivity** : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



### HMIS III Rating

**Health** : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

**Flammability** : 0 Minimal Hazard

**Physical** : 1 Slight Hazard

### Party Responsible for the Preparation of This Document

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*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.*