

# SAFETY DATA SHEET

Issuing Date No data available

Revision Date 18-Aug-2014

Revision Number 2

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product identifier

Product Name Aluminum Brightener

### Other means of identification

UN-No. UN2922

Synonyms Part # J70

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

Recommended Use Tire and Wheel Cleaner (All types but Aerosol)

Uses advised against No information available

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

Supplier Name Superior Products Co  
Supplier Address 6962 Highway 111  
S. Roxana  
IL  
62087  
US  
Supplier Phone Number Phone:800 424-9300  
Fax:618 254-7421  
Contact Phone618 254-7400  
Supplier Email [sds@superiorproducts.com](mailto:sds@superiorproducts.com)  
Emergency telephone number 800 424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

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

|                                           |            |
|-------------------------------------------|------------|
| Acute toxicity - Oral                     | Category 2 |
| Acute toxicity - Dermal                   | Category 1 |
| Acute toxicity - Inhalation (Gases)       | Category 3 |
| Acute toxicity - Inhalation (Vapors)      | Category 3 |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 2 |
| Skin corrosion/irritation                 | Category 1 |
| Serious eye damage/eye irritation         | Category 1 |

### GHS Label elements, including precautionary statements

#### Emergency Overview

Signal word Danger

**Hazard Statements**

Fatal if swallowed  
Fatal in contact with skin  
Fatal if inhaled  
Causes severe skin burns and eye damage

**Appearance** Light Tan**Physical State** Liquid**Odor** Acidic**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not get in eyes, on skin, or on clothing  
Wear protective gloves/protective clothing/eye protection/face protection  
Use only outdoors or in a well-ventilated area  
Do not breathe dust/fume/gas/mist/vapors/spray  
Wear respiratory protection

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician  
Specific treatment (see supplemental first aid instructions 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  
Immediately call a POISON CENTER or doctor/physician

**Skin**

Immediately call a POISON CENTER or doctor/physician  
Wash contaminated clothing before reuse  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
Immediately call a POISON CENTER or doctor/physician

**Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Rinse mouth  
Do NOT induce vomiting

**Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

0.0006% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

No information available

**Interactions with Other Chemicals**

Use of alcoholic beverages may enhance toxic effects.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name                      | CAS No.   | Weight-% | Trade Secret |
|------------------------------------|-----------|----------|--------------|
| Hydrogen fluoride                  | 7664-39-3 | 2 – 5    | *            |
| Phosphoric acid                    | 7664-38-2 | 1 – 3    | *            |
| 2-Butoxyethanol                    | 111-76-2  | 1 – 3    | *            |
| Ethylene oxide-Nonylphenol polymer | 9016-45-9 | 1 - 3    | *            |

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

**4. FIRST AID MEASURES****First aid measures****General Advice**

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

**Eye Contact**

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

**Skin Contact**

For minor skin contact, avoid spreading material on unaffected skin.

**Inhalation**

Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

**Ingestion**

Do NOT induce vomiting. Rinse mouth. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

**Self-protection of the first aider**

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

**Most important symptoms and effects, both acute and delayed****Most Important Symptoms and Effects**

Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Keep victim warm and quiet. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Dry chemical, CO2 or water spray. Dry chemical, CO2, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire control water for later disposal; do not scatter the material.

### Unsuitable Extinguishing Media

CAUTION: Use of water spray when fighting fire may be inefficient.

### Specific Hazards Arising from the Chemical

Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.).

#### Uniform Fire Code

Corrosive: Acid-Liquid

### Hazardous Combustion Products

Carbon oxides.

### Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge No.

### Protective equipment and precautions for firefighters

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

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

#### Personal Precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk.

#### Other Information

DO NOT GET WATER INSIDE CONTAINERS.

### Environmental Precautions

#### Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

#### Methods for Containment

Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

#### Methods for cleaning up

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist.

### Conditions for safe storage, including any incompatibilities

#### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

#### Incompatible Products

Acids. Bases. Oxidizing agent.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name                  | ACGIH TLV                                                                | OSHA PEL                                                                                                                                                                     | NIOSH IDLH                                                                                                               |
|--------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Hydrogen fluoride<br>7664-39-3 | TWA: 0.5 ppm F<br>TWA: 2.5 mg/m <sup>3</sup> F<br>S*<br>Ceiling: 2 ppm F | TWA: 3 ppm F<br>TWA: 2.5 mg/m <sup>3</sup> F<br>TWA: 2.5 mg/m <sup>3</sup> dust<br>(vacated) TWA: 3 ppm F<br>(vacated) TWA: 2.5 mg/m <sup>3</sup><br>(vacated) STEL: 6 ppm F | IDLH: 30 ppm<br>Ceiling: 6 ppm 15 min<br>Ceiling: 5 mg/m <sup>3</sup> 15 min<br>TWA: 3 ppm TWA:<br>2.5 mg/m <sup>3</sup> |
| Phosphoric acid<br>7664-38-2   | STEL: 3 mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup>                    | TWA: 1 mg/m <sup>3</sup><br>(vacated) TWA: 1 mg/m <sup>3</sup><br>(vacated) STEL: 3 mg/m <sup>3</sup>                                                                        | IDLH: 1000 mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup><br>STEL: 3 mg/m <sup>3</sup>                                    |
| 2-Butoxyethanol<br>111-76-2    | TWA: 20 ppm                                                              | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>(vacated) TWA: 25 ppm<br>(vacated) TWA: 120 mg/m <sup>3</sup><br>(vacated) S*                                                   | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m <sup>3</sup>                                                                 |

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

#### Other Exposure Guidelines

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

### Appropriate engineering controls

#### Engineering Measures

Showers  
Eyewash stations  
Ventilation systems

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

#### Eye/Face Protection

Face protection shield.

#### Skin and Body Protection

Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves.

**Respiratory Protection**

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use. No information available. Do not breathe vapor or mist.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Physical and Chemical Properties**

|                       |                          |                       |                          |
|-----------------------|--------------------------|-----------------------|--------------------------|
| <b>Physical State</b> | Liquid                   | <b>Odor</b>           | Acidic                   |
| <b>Appearance</b>     | Tan                      | <b>Odor Threshold</b> | No information available |
| <b>Color</b>          | No information available |                       |                          |

| <b>Property</b>                               | <b>Values</b>      | <b>Remarks/ Method</b> |
|-----------------------------------------------|--------------------|------------------------|
| <b>pH</b>                                     | 2                  | None known             |
| <b>Melting / freezing point</b>               | No data available  | None known             |
| <b>Boiling point / boiling range</b>          | No data available  | None known             |
| <b>Flash Point</b>                            | No data available  | None known             |
| <b>Evaporation Rate</b>                       | No data available  | None known             |
| <b>Flammability (solid, gas)</b>              | No data available  | None known             |
| <b>Flammability Limit in Air</b>              |                    |                        |
| Upper flammability limit                      | No data available  |                        |
| Lower flammability limit                      | No data available  |                        |
| <b>Vapor pressure</b>                         | No data available  | None known             |
| <b>Vapor density</b>                          | No data available  | None known             |
| <b>Specific Gravity</b>                       | No data available  | None known             |
| <b>Water Solubility</b>                       | Completely soluble | None known             |
| <b>Solubility in other solvents</b>           | No data available  | None known             |
| <b>Partition coefficient: n-octanol/water</b> | No data available  | None known             |
| <b>Autoignition temperature</b>               | No data available  | None known             |
| <b>Decomposition Temperature</b>              | No data available  | None known             |
| <b>Kinematic viscosity</b>                    | No data available  | None known             |
| <b>Dynamic viscosity</b>                      | No data available  | None known             |
| <b>Explosive properties</b>                   | No data available  |                        |
| <b>Oxidizing Properties</b>                   | No data available  |                        |

**Other Information**

|                                   |                   |
|-----------------------------------|-------------------|
| <b>Softening Point</b>            | No data available |
| <b>VOC Content (%)</b>            | No data available |
| <b>Particle Size</b>              | No data available |
| <b>Particle Size Distribution</b> |                   |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Exposure to air or moisture over prolonged periods. Excessive heat.

### Incompatible materials

Acids. Bases. Oxidizing agent.

### Hazardous Decomposition

Products Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

#### Inhalation

Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May be fatal if inhaled.

#### Eye Contact

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.

#### Skin Contact

Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. May be fatal if absorbed through skin. (based on components).

#### Ingestion

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Toxic if swallowed.

#### Component Information

| Chemical Name                                       | Oral LD50            | Dermal LD50             | Inhalation LC50                     |
|-----------------------------------------------------|----------------------|-------------------------|-------------------------------------|
| Hydrogen fluoride<br>7664-39-3                      | -                    | -                       | = 1276 ppm ( Rat ) 1 h              |
| Phosphoric acid<br>7664-38-2                        | = 1530 mg/kg ( Rat ) | = 2730 mg/kg ( Rabbit ) | > 850 mg/m <sup>3</sup> ( Rat ) 1 h |
| 2-Butoxyethanol<br>111-76-2                         | = 470 mg/kg ( Rat )  | = 220 mg/kg ( Rabbit )  | = 450 ppm ( Rat ) 4 h               |
| Ethylene oxide-<br>Nonylphenol polymer<br>9016-45-9 | -                    | = 1780 µL/kg ( Rabbit ) | -                                   |

**Information on toxicological effects**

**Symptoms** Erythema (skin redness). Burning. May cause blindness. Coughing and/ or wheezing. Difficulty in breathing.

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

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name               | ACGIH | IARC    | NTP | OSHA |
|-----------------------------|-------|---------|-----|------|
| 2-Butoxyethanol<br>111-76-2 | A3    | Group 3 |     |      |

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A3 - Animal Carcinogen*

*IARC (International Agency for Research on Cancer)*

*Group 3 - Not Classifiable as to Carcinogenicity in Humans*

**Reproductive Toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Effects from this product caused by acute exposure may cause permanent damage to target organs and/or may cause chronic conditions. May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects. Carcinogenic potential is unknown.

**Target Organ Effects** Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Systemic Toxicity. Blood. Central Nervous System (CNS). Hematopoietic system. Kidney. Liver. Bone. Cardiovascular system. Endocrine system. Pancreas. Testes. Teeth. Thyroid.

**Aspiration Hazard** No information available.

**Numerical measures of toxicity Product Information**

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

**ATEmix (oral)**

41.00 mg/kg

**ATEmix (dermal)**

42.00 mg/kg (ATE)

**ATEmix (inhalation-gas)**

826.00 ppm (4 hr)

**ATEmix (inhalation-dust/mist)**

0.41 mg/l

**ATEmix (inhalation-vapor)** 4.00 ATEmix**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life.

**Persistence and Degradability**

No information available.

**Bioaccumulation**

| Chemical Name                  | Log Pow |
|--------------------------------|---------|
| Hydrogen fluoride<br>7664-39-3 | -1.4    |
| 2-Butoxyethanol<br>111-76-2    | 0.81    |

**Other adverse effects**

No information available.

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

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

**US EPA Waste Number**

D002

| Chemical Name                  | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|--------------------------------|------|--------------------------|------------------------|------------------------|
| Hydrogen fluoride<br>7664-39-3 | U134 |                          |                        | U134                   |

**California Hazardous Waste Codes 791**

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

| Chemical Name                | California Hazardous Waste |
|------------------------------|----------------------------|
| Phosphoric acid<br>7664-38-2 | Corrosive                  |

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

|                      |                                  |
|----------------------|----------------------------------|
| UN-No.               | UN2922                           |
| Proper Shipping Name | CORROSIVE LIQUIDS, TOXIC, N.O.S. |
| Hazard Class         | 8                                |
| Subsidiary class     | 6.1                              |
| Packing Group        | II                               |

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|                                        |                                                                                                    |
|----------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Description</b>                     | UN2922, CORROSIVE LIQUIDS, TOXIC, N.O.S. (HYDROGEN FLUORIDE, 2-BUTOXYETHANOL), 8 (6.1), II, POISON |
| <b>Emergency Response Guide Number</b> | 154                                                                                                |

**T D G**

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>UN-No.</b>               | UN2922                                                                                    |
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, TOXIC, N.O.S.                                                           |
| <b>Hazard Class</b>         | 8                                                                                         |
| <b>Subsidiary class</b>     | 6.1                                                                                       |
| <b>Packing Group</b>        | II                                                                                        |
| <b>Description</b>          | UN2922, CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROGEN FLUORIDE, 2-BUTOXYETHANOL), 8 (6.1), II |

**MEX**

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>UN-No.</b>               | UN2922                                                                                    |
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, TOXIC, N.O.S.                                                           |
| <b>Hazard Class</b>         | 8                                                                                         |
| <b>Subsidiary class</b>     | 6.1                                                                                       |
| <b>Packing Group</b>        | II                                                                                        |
| <b>Description</b>          | UN2922, CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROGEN FLUORIDE, 2-BUTOXYETHANOL), 8 (6.1), II |

**ICAO**

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>UN-No.</b>               | UN2922                                                                                    |
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, TOXIC, N.O.S.                                                           |
| <b>Hazard Class</b>         | 8                                                                                         |
| <b>Subsidiary class</b>     | 6.1                                                                                       |
| <b>Packing Group</b>        | II                                                                                        |
| <b>Description</b>          | UN2922, CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROGEN FLUORIDE, 2-BUTOXYETHANOL), 8 (6.1), II |

**IATA**

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>UN-No.</b>               | UN2922                                                                                    |
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, TOXIC, N.O.S.                                                           |
| <b>Hazard Class</b>         | 8                                                                                         |
| <b>Subsidiary class</b>     | 6.1                                                                                       |
| <b>Packing Group</b>        | II                                                                                        |
| <b>Description</b>          | UN2922, CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROGEN FLUORIDE, 2-BUTOXYETHANOL), 8 (6.1), II |

**IMDG/IMO**

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>UN-No.</b>               | UN2922                                                                                    |
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, TOXIC, N.O.S.                                                           |
| <b>Hazard Class</b>         | 8                                                                                         |
| <b>Subsidiary class</b>     | 6.1                                                                                       |
| <b>Packing Group</b>        | II                                                                                        |
| <b>EmS No.</b>              | F-A, S-B                                                                                  |
| <b>Description</b>          | UN2922, CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROGEN FLUORIDE, 2-BUTOXYETHANOL), 8 (6.1), II |

**R I D**

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>UN-No.</b>               | UN2922                                                                                    |
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, TOXIC, N.O.S.                                                           |
| <b>Hazard Class</b>         | 8                                                                                         |
| <b>Packing Group</b>        | II                                                                                        |
| <b>Classification code</b>  | CT1                                                                                       |
| <b>Description</b>          | UN2922, CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROGEN FLUORIDE, 2-BUTOXYETHANOL), 8 (6.1), II |
| <b>ADR/RID-Labels</b>       | 6.1                                                                                       |

**A D R**

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|                                |                                                                                           |
|--------------------------------|-------------------------------------------------------------------------------------------|
| <b>UN-No.</b>                  | UN2922                                                                                    |
| <b>Proper Shipping Name</b>    | CORROSIVE LIQUID, TOXIC, N.O.S.                                                           |
| <b>Hazard Class</b>            | 8                                                                                         |
| <b>Packing Group</b>           | II                                                                                        |
| <b>Classification code</b>     | CT1                                                                                       |
| <b>Tunnel restriction code</b> | (E)                                                                                       |
| <b>Description</b>             | UN2922, CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROGEN FLUORIDE, 2-BUTOXYETHANOL), 8 (6.1), II |
| <b>ADR/RID-Labels</b>          | 6.1                                                                                       |

**ADN**

|                             |                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| <b>UN-No.</b>               | UN2922                                                                                    |
| <b>Proper Shipping Name</b> | CORROSIVE LIQUID, TOXIC, N.O.S.                                                           |
| <b>Hazard Class</b>         | 8                                                                                         |
| <b>Packing Group</b>        | II                                                                                        |
| <b>Classification code</b>  | CT1                                                                                       |
| <b>Special Provisions</b>   | 274, 802                                                                                  |
| <b>Description</b>          | UN2922, CORROSIVE LIQUID, TOXIC, N.O.S. (HYDROGEN FLUORIDE, 2-BUTOXYETHANOL), 8 (6.1), II |
| <b>Hazard Labels</b>        | 6.1                                                                                       |
| <b>Limited Quantity</b>     | 1 L                                                                                       |
| <b>Ventilation</b>          | VE02                                                                                      |

## 15. REGULATORY INFORMATION

**International Inventories**

|              |                                                      |
|--------------|------------------------------------------------------|
| <b>TSCA</b>  | Complies                                             |
| <b>DSL</b>   | All components are listed either on the DSL or NDSL. |
| <b>IECSC</b> | -                                                    |

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

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

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product 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 % |
|-------------------------------|-----------|----------|-------------------------------|
| Hydrogen fluoride - 7664-39-3 | 7664-39-3 | 7 - 13   | 1.0                           |
| 2-Butoxyethanol - 111-76-2    | 111-76-2  | 3 - 7    | 1.0                           |

**SARA 311/312 Hazard Categories**

|                                          |     |
|------------------------------------------|-----|
| <b>Acute Health Hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | Yes |
| <b>Fire Hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | No  |

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name                  | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Hydrogen fluoride<br>7664-39-3 | 100 lb                      |                        |                           | X                          |
| Phosphoric acid<br>7664-38-2   | 5000 lb                     |                        |                           | X                          |

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical Name                  | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ                                         |
|--------------------------------|--------------------------|------------------------------------|--------------------------------------------|
| Hydrogen fluoride<br>7664-39-3 | 100 lb                   | 100 lb                             | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ  |
| Phosphoric acid<br>7664-38-2   | 5000 lb                  |                                    | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

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

This product does not contain any Proposition 65 chemicals.

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

| Chemical Name                  | New Jersey | Massachusetts | Pennsylvania | Rhode Island | Illinois |
|--------------------------------|------------|---------------|--------------|--------------|----------|
| Water<br>7732-18-5             |            |               | -            |              |          |
| Hydrogen fluoride<br>7664-39-3 | X          | X             | X            | X            | X        |
| Phosphoric acid<br>7664-38-2   | X          | X             | X            | X            |          |
| 2-Butoxyethanol<br>111-76-2    | X          | X             | X            | X            | X        |

**International Regulations****Mexico****National occupational exposure limits**

| Component                                 | Carcinogen Status | Exposure Limits                                                                                                      |
|-------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------|
| Hydrogen fluoride<br>7664-39-3 ( 7 - 13 ) |                   | Mexico: Ceiling 3 ppm<br>Mexico: Ceiling 2.5 mg/m <sup>3</sup>                                                       |
| Phosphoric acid<br>7664-38-2 ( 3 - 7 )    |                   | Mexico: TWA 1 mg/m <sup>3</sup><br>Mexico: STEL 3 mg/m <sup>3</sup>                                                  |
| 2-Butoxyethanol<br>111-76-2 ( 3 - 7 )     |                   | Mexico: TWA 26 ppm<br>Mexico: TWA 120 mg/m <sup>3</sup><br>Mexico: STEL 75 ppm<br>Mexico: STEL 360 mg/m <sup>3</sup> |

Mexico - Occupational Exposure Limits - Carcinogens

**Canada****WHMIS Hazard Class**

Non-controlled

**16. OTHER INFORMATION**

|             |                         |                       |                          |                                        |
|-------------|-------------------------|-----------------------|--------------------------|----------------------------------------|
| <b>NFPA</b> | <b>Health Hazards 3</b> | <b>Flammability 0</b> | <b>Instability 0</b>     | <b>Physical and Chemical Hazards -</b> |
| <b>HMIS</b> | <b>Health Hazards 3</b> | <b>Flammability 0</b> | <b>Physical Hazard 0</b> | <b>Personal Protection</b>             |
|             |                         |                       |                          | X                                      |

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| <b>Prepared By</b>   | Product Stewardship<br>23 British American Blvd.<br>Latham, NY 12110<br>1-800-572-6501 |
| <b>Revision Date</b> | 18-Aug-2014                                                                            |
| <b>Revision Note</b> | No information available                                                               |

**Disclaimer**

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

**End of Safety Data Sheet**