

# SAFETY DATA SHEET

## ZEP ZEP-A-LUME E CLEANER 55GL

Version 2.3

Revision Date 10/01/2023

Print Date 04/28/2025

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP ZEP-A-LUME E CLEANER 55GL

Material number : M61085

#### Manufacturer or supplier's details

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE  
Emerson, GA 30137

Telephone : Compliance Services - 877-428-9937

#### Emergency telephone numbers

For SDS Information : Compliance Services - 877-428-9937

For a Medical Emergency : 877-541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency : CHEMTREC: 800-424-9300 - All Calls Recorded.  
In the District of Columbia 202-483-7616

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

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

|            |                          |
|------------|--------------------------|
| Appearance | liquid                   |
| Colour     | amber, colourless, clear |
| Odour      | strong                   |

#### GHS Classification

Acute toxicity (Oral) : Category 3

Acute toxicity (Inhalation) : Category 4

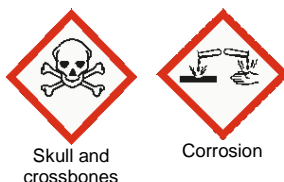
Acute toxicity (Dermal) : Category 2

Skin corrosion : Category 1

Serious eye damage : Category 1

#### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H301 Toxic if swallowed.  
H310 Fatal in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.

Precautionary statements : **Prevention:**

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P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

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

P201 + P202 Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

**SPECIAL HANDLING INSTRUCTIONS** - Due to the unique hazards associated with hydrogen fluoride (HF), facilities need to have access to emergency showers, proper personal protective equipment (PPE), a supply of calcium gluconate gel, and complete training of all individuals on proper PPE and procedures.

#### **Response:**

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P302 + P352 + P310 IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/doctor.

P321 Specific treatment (see supplemental instructions on the administration of antidotes on this label).

**SUPPLEMENTAL MEDICAL TREATMENT** - Get immediate medical attention while applying and massaging in 2.5% calcium gluconate gel to the skin.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.

#### **Storage:**

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

P405 Store locked up.

#### **Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### **Hazardous components**

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| Chemical name                 | CAS-No.    | Concentration [%] |
|-------------------------------|------------|-------------------|
| sulphuric acid                | 7664-93-9  | $\geq 5 - < 10$   |
| hydrogen fluoride             | 7664-39-3  | $\geq 1 - < 5$    |
| 2-butoxyethanol               | 111-76-2   | $\geq 1 - < 5$    |
| Alcohols, C10-14, ethoxylated | 66455-15-0 | $\geq 1 - < 5$    |
| orthophosphoric acid          | 7664-38-2  | $\geq 1 - < 5$    |

The exact percentages of disclosed substances are withheld as trade secrets.

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.  
Move to fresh air.  
Oxygen or artificial respiration if needed.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention while applying and massaging in 2.5% calcium gluconate gel. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get immediate medical attention.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
DO NOT induce vomiting unless directed to do so by a physician or poison control center.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Effects are dependent on exposure (dose, concentration, contact time).  
Effects are immediate and delayed.  
Symptoms may include blistering, irritation, burns, and pain.  
Symptoms may include central nervous system depression, resulting in headache, nausea and/or dizziness.  
Fatal in contact with skin.  
Causes severe skin burns and eye damage.  
Review section 2 of SDS to see all potential hazards.
- Notes to physician : Treat symptomatically. Symptoms may be delayed.

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Delayed treatment may result in hypoglycemia, begin treatment with topical application calcium gluconate, and monitor blood chemistry.

Contact a poison treatment specialist immediately if large quantities have been ingested or inhaled, or contact with large portions of the body have occurred.

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### SECTION 5. FIREFIGHTING MEASURES

- |   |   |
|---|---|
| Suitable extinguishing media                  | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  |
| Unsuitable extinguishing media                | : High volume water jet   |
| Specific hazards during firefighting          | : Do not allow run-off from fire fighting to enter drains or water courses.   |
| Hazardous combustion products                 | : Fluorine compounds<br>Carbon dioxide (CO2)<br>Carbon monoxide<br>Smoke<br>Phosphorus compounds<br>Sulphur oxides  |
| Specific extinguishing methods                | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.   |
| Further information                           | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.  |

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Ensure adequate ventilation.   |
| Environmental precautions   | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains, inform respective authorities. |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.                              |

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### SECTION 7. HANDLING AND STORAGE

- Technical measures : Due to the unique hazards associated with hydrogen fluoride (HF), it is highly recommended that emergency pre-planning and training of employees occur to mitigate and facilitate rapid response to an exposure. Facilities need to have access to emergency showers, proper personal protective equipment (PPE), a supply of calcium gluconate gel, and complete training of all individuals on proper PPE and procedures.
- Advice on safe handling : Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Oxidizing agents  
Store and keep away from bases and alkalies.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components        | CAS-No.   | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis     |
|-------------------|-----------|----------------------------------|---|-----------|
| sulphuric acid    | 7664-93-9 | TWA<br>(Thoracic fraction)       | 0.2 mg/m <sup>3</sup>                             | ACGIH     |
|                   |           | TWA                              | 1 mg/m <sup>3</sup>                               | NIOSH REL |
|                   |           | TWA                              | 1 mg/m <sup>3</sup>                               | OSHA Z-1  |
|                   |           | TWA                              | 1 mg/m <sup>3</sup>                               | OSHA P0   |
|                   |           | PEL                              | 0.1 mg/m <sup>3</sup>                             | CAL PEL   |
|                   |           | STEL                             | 3 mg/m <sup>3</sup>                               | CAL PEL   |
| hydrogen fluoride | 7664-39-3 | TWA                              | 0.5 ppm   | ACGIH     |
|                   |           | C                                | 2 ppm   | ACGIH     |
|                   |           | TWA                              | 3 ppm<br>2.5 mg/m <sup>3</sup>                    | NIOSH REL |
|                   |           | C                                | 6 ppm<br>5 mg/m <sup>3</sup>                      | NIOSH REL |
|                   |           | TWA                              | 3 ppm   | OSHA Z-2  |

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|                      |           |      |                       |           |
|----------------------|-----------|------|-----------------------|-----------|
|                      |           | TWA  | 3 ppm                 | OSHA P0   |
|                      |           | STEL | 6 ppm                 | OSHA P0   |
|                      |           | TWA  | 0.5 ppm               | ACGIH     |
|                      |           | C    | 2 ppm                 | ACGIH     |
|                      |           | TWA  | 3 ppm                 | OSHA P0   |
|                      |           | STEL | 6 ppm                 | OSHA P0   |
|                      |           | PEL  | 0.4 ppm<br>0.33 mg/m3 | CAL PEL   |
|                      |           | STEL | 1 ppm<br>0.83 mg/m3   | CAL PEL   |
| 2-butoxyethanol      | 111-76-2  | TWA  | 20 ppm                | ACGIH     |
|                      |           | TWA  | 5 ppm<br>24 mg/m3     | NIOSH REL |
|                      |           | TWA  | 50 ppm<br>240 mg/m3   | OSHA Z-1  |
|                      |           | TWA  | 25 ppm<br>120 mg/m3   | OSHA P0   |
|                      |           | PEL  | 20 ppm<br>97 mg/m3    | CAL PEL   |
| orthophosphoric acid | 7664-38-2 | TWA  | 1 mg/m3               | ACGIH     |
|                      |           | STEL | 3 mg/m3               | ACGIH     |
|                      |           | TWA  | 1 mg/m3               | NIOSH REL |
|                      |           | ST   | 3 mg/m3               | NIOSH REL |
|                      |           | TWA  | 1 mg/m3               | OSHA Z-1  |
|                      |           | TWA  | 1 mg/m3               | OSHA P0   |
|                      |           | STEL | 3 mg/m3               | OSHA P0   |
|                      |           | PEL  | 1 mg/m3               | CAL PEL   |
|                      |           | STEL | 3 mg/m3               | CAL PEL   |

**Biological occupational exposure limits**

| Component         | CAS-No.   | Control parameters      | Biological specimen | Sampling time  | Permissible concentration | Basis     |
|-------------------|-----------|-------------------------|---------------------|--|---------------------------|-----------|
| HYDROFLUORIC ACID | 7664-39-3 | Fluoride                | Urine               | Prior to shift (16 hours after exposure ceases)          | 2 mg/l                    | ACGIH BEI |
| HYDROFLUORIC ACID |           | Fluoride                | Urine               | End of shift (As soon as possible after exposure ceases) | 3 mg/l                    | ACGIH BEI |
| 2-BUTOXYETHANOL   | 111-76-2  | Butoxyacetic acid (BAA) | Urine               | End of shift (As soon as possible after exposure ceases) | 200.mg/g Creatinine       | ACGIH BEI |

**Engineering measures** : effective ventilation in all processing areas

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### Personal protective equipment

|                          |  |
|--------------------------|--|
| Respiratory protection   | : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.    |
| Hand protection          |  |
| Material                 | : Protective gloves  |
| Remarks                  | : The suitability for a specific workplace should be discussed with the producers of the protective gloves.  |
| Eye protection           | : Ensure that eyewash stations and safety showers are close to the workstation location.<br>Tightly fitting safety goggles<br>Face-shield  |
| Skin and body protection | : Impervious clothing<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place.  |
| Hygiene measures         | : Avoid contact with skin, eyes and clothing.<br>When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and immediately after handling the product. |

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                              |                            |
|------------------------------|----------------------------|
| Appearance                   | : liquid                   |
| Colour                       | : amber, colourless, clear |
| Odour                        | : strong                   |
| Odour Threshold              | : No data available        |
| pH                           | : < 1                      |
| Melting point/freezing point | : Not applicable           |
| Boiling point                | : 104.44 °C                |
| Flash point                  | :<br>does not flash        |
| Evaporation rate             | : 1                        |
| Upper explosion limit        | : Not applicable           |
| Lower explosion limit        | : Not applicable           |
| Vapour pressure              | : Not applicable           |
| Relative vapour density      | : No data available        |
| Density                      | : 1.06 g/cm <sup>3</sup>   |
| Bulk density                 | : No data available        |
| Solubility(ies)              |                            |

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|  |                     |
|--|---------------------|
| Water solubility                       | : soluble           |
| Solubility in other solvents           | : not determined    |
| Partition coefficient: n-octanol/water | : No data available |
| Auto-ignition temperature              | : not determined    |
| Thermal decomposition                  | : No data available |
| Viscosity                              |                     |
| Viscosity, dynamic                     | : No data available |
| Viscosity, kinematic                   | : No data available |

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#### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |
|------------------------------------|---|
| Reactivity                         | : Stable  |
| Chemical stability                 | : Stable under normal conditions.                         |
| Possibility of hazardous reactions | : No decomposition if stored and applied as directed.     |
| Conditions to avoid                | : No data available                                       |
| Incompatible materials             | : Oxidizing agents<br>Bases                               |
| Hazardous decomposition products   | : Carbon oxides<br>Phosphorus compounds<br>Sulphur oxides |

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#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Potential Health Effects

|                              |  |
|------------------------------|--|
| Aggravated Medical Condition | : None known.  |
| Symptoms of Overexposure     | : Effects are dependent on exposure (dose, concentration, contact time).<br>Effects are immediate and delayed.<br>Symptoms may include blistering, irritation, burns, and pain.<br>Symptoms may include central nervous system depression, resulting in headache, nausea and/or dizziness.<br>Fatal in contact with skin.<br>Causes severe skin burns and eye damage.<br>Review section 2 of SDS to see all potential hazards.<br>Treat symptomatically. Symptoms may be delayed.<br>Delayed treatment may result in hypoglycemia, begin |



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treatment with topical application calcium gluconate, and monitor blood chemistry.

Contact a poison treatment specialist immediately if large quantities have been ingested or inhaled, or contact with large portions of the body have occurred.

### Carcinogenicity:

|              |  |           |
|--------------|--|-----------|
| <b>IARC</b>  | Group 1: Carcinogenic to humans  |           |
|              | sulphuric acid   | 7664-93-9 |
| <b>ACGIH</b> | Suspected human carcinogen   |           |
|              | sulphuric acid   | 7664-93-9 |
|              | Confirmed animal carcinogen with unknown relevance to humans   |           |
|              | 2-butoxyethanol  | 111-76-2  |
| <b>OSHA</b>  | No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. |           |
| <b>NTP</b>   | Known to be human carcinogen   |           |
|              | sulphuric acid   | 7664-93-9 |

### Acute toxicity

#### Product:

Acute oral toxicity : Acute toxicity estimate : 150.66 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : 14.64 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : 151.16 mg/kg  
Method: Calculation method

#### Components:

##### **2-butoxyethanol:**

Acute oral toxicity : LD50 Oral Rat: 880 mg/kg

Acute dermal toxicity : LD50 Dermal Rabbit: 1,060 mg/kg

### Skin corrosion/irritation

#### Product:

Remarks: Causes skin burns. Harmful if absorbed through the skin. Contact results in immediate skin absorption which may cause hypocalcemia (calcium loss). This effect may be delayed for several hours after exposure. Severe over-exposure by absorption can result in death. Get immediate medical attention.

Remarks: Extremely corrosive and destructive to tissue.

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### Components:

#### **hydrogen fluoride:**

Remarks: Causes skin burns. Harmful if absorbed through the skin. Contact results in immediate skin absorption which may cause hypocalcemia (calcium loss). This effect may be delayed for several hours after exposure. Severe over-exposure by absorption can result in death. Get immediate medical attention.

### **Serious eye damage/eye irritation**

#### Product:

Remarks: May cause irreversible eye damage.

### **Respiratory or skin sensitisation**

No data available

### **Germ cell mutagenicity**

No data available

### **Carcinogenicity**

No data available

### **Reproductive toxicity**

No data available

### **STOT - single exposure**

No data available

### **STOT - repeated exposure**

No data available

### **Aspiration toxicity**

No data available

### **Further information**

#### Product:

Remarks: No data available

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

No data available

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

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### Product:

Partition coefficient: n-octanol/water : Remarks: No data available

### **Mobility in soil**

No data available

### **Other adverse effects**

No data available

### Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological information : No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

## SECTION 14. TRANSPORT INFORMATION

Transportation Regulation: 49 CFR (USA):  
UN2922, Corrosive liquids, toxic, n.o.s., (HYDROFLUORIC ACID, SULFURIC ACID), 8, (6.1), II

Transportation Regulation: IMDG (Vessel):  
UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (HYDROFLUORIC ACID, SULFURIC ACID), 8, (6.1), II

Transportation Regulation: IATA (Cargo Air):  
UN2922, Corrosive liquid, toxic, n.o.s., (HYDROFLUORIC ACID, SULFURIC ACID), 8, (6.1), II

Transportation Regulation: IATA (Passenger Air):  
UN2922, Corrosive liquid, toxic, n.o.s., (HYDROFLUORIC ACID, SULFURIC ACID), 8, (6.1), II

Transportation Regulation: TDG (Canada):

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UN2922, CORROSIVE LIQUID, TOXIC, N.O.S., (HYDROFLUORIC ACID, SULFURIC ACID), 8, (6.1), II

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

### SECTION 15. REGULATORY INFORMATION

**TSCA list** : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

#### EPCRA - Emergency Planning and Community Right-to-Know Act

##### CERCLA Reportable Quantity

| Components        | CAS-No.   | Component RQ (lbs) | Calculated product RQ (lbs) |
|-------------------|-----------|--------------------|-----------------------------|
| hydrogen fluoride | 7664-39-3 | 100                | 3034                        |

##### SARA 304 Extremely Hazardous Substances Reportable Quantity

| Components        | CAS-No.   | Component RQ (lbs) | Calculated product RQ (lbs) |
|-------------------|-----------|--------------------|-----------------------------|
| hydrogen fluoride | 7664-39-3 | 100                | 3034                        |

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 302** : The following components are subject to reporting levels established by SARA Title III, Section 302:

|                   |           |          |
|-------------------|-----------|----------|
| sulphuric acid    | 7664-93-9 | 5.7133 % |
| hydrogen fluoride | 7664-39-3 | 3.2953 % |

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

|                   |           |          |
|-------------------|-----------|----------|
| hydrogen fluoride | 7664-39-3 | 3.2953 % |
| 2-butoxyethanol   | 111-76-2  | 2.64 %   |

#### California Prop. 65

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

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The components of this product are reported in the following inventories:

**DSL** All components of this product are on the Canadian DSL  
**TSCA** On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

### Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA:

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>3</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>INSTABILITY</b>     | <b>0</b> |
| <b>SPECIAL HAZARD.</b> |          |

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme

#### HMIS III:

|                        |          |
|------------------------|----------|
| <b>HEALTH</b>          | <b>3</b> |
| <b>FLAMMABILITY</b>    | <b>0</b> |
| <b>PHYSICAL HAZARD</b> | <b>0</b> |

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic

### OSHA - GHS Label Information:

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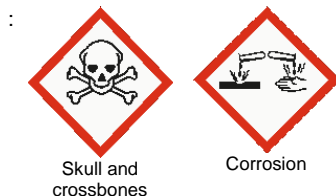
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Hazard pictograms



Signal word

Hazard statements

Precautionary statements

: **Danger:**  
: Toxic if swallowed. Fatal in contact with skin. Causes severe skin burns and eye damage. Harmful if inhaled.  
: **Prevention:** Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Do not get in eyes, on skin, or on clothing. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. SPECIAL HANDLING INSTRUCTIONS - Due to the unique hazards associated with hydrogen fluoride (HF), facilities need to have access to emergency showers, proper personal protective equipment (PPE), a supply of calcium gluconate gel, and complete training of all individuals on proper PPE and procedures.  
**Response:** IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental instructions on the administration of antidotes on this label). SUPPLEMENTAL MEDICAL TREATMENT - Get immediate medical attention while applying and massaging in 2.5% calcium gluconate gel to the skin. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Take off immediately all contaminated clothing and wash it before reuse.  
**Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up.  
**Disposal:** Dispose of contents/container in accordance with local regulation.

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