

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Revision date 17-Apr-2023

### Revision Number 1

| 1. Identification  |  |   |
|--|--|---|
| Product identifier   |  |   |
| Product Name   | MAE 1:1:2  |   |
| Other means of identification  |  |   |
| Product Code(s)  | 3162   |   |
| UN number or ID number   | UN2922   |   |
| Synonyms   | Mixed Acid Etchant   |   |
| Recommended use of the chemica   | l and restrictions on use  |   |
| Recommended use  | Industrial use<br>Laboratory use<br>Industrial Manufacturing (all) |   |
| Restrictions on use  | No information available   |   |
| Details of the supplier of the safet   | v data sheet   |   |
| Supplier Address<br>Columbus Chemical Industries, Inc.<br>N4335 Temkin Rd.<br>Columbus, WI 53925 USA<br>Phone: (920) 623-2140<br>Fax: (920) 623-2577<br>www.columbuschemical.com |  |   |
| Emergency telephone number   |  |   |
| 24 Hour Emergency Phone Numbe  | r CHEMTREC: 1-800-424-9300 for US / 703-527-38                     | 87 outside US   |
| Emergency Telephone  | 911  |   |
| 2. Hazard(s) identification  |  |   |
| Acute toxicity - Oral<br>Acute toxicity - Dermal<br>Acute toxicity - Inhalation (Gases)<br>Acute toxicity - Inhalation (Dusts/Mis<br>Skin corrosion/irritation                   | s)   | Category 2<br>Category 1<br>Category 3<br>Category 2<br>Category 1 Sub-category A |
| Serious eye damage/eye irritation<br>Oxidizing liquids   |  | Category 1<br>Category 3  |

Hazards not otherwise classified (HNOC)

Not applicable

### Label elements Danger

### Hazard statements

- H300 Fatal if swallowed
- H310 Fatal in contact with skin
- H314 Causes severe skin burns and eye damage
- H330 Fatal if inhaled
- H331 Toxic if inhaled
- H272 May intensify fire; oxidizer.



### **Precautionary Statements - Prevention**

- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P262 Do not get in eyes, on skin, or on clothing
- P271 Use only outdoors or in a well-ventilated area
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P284 Wear respiratory protection
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P210 Keep away from heat
- P220 Keep/Store away from clothing/ combustible materials
- P221 Take any precaution to avoid mixing with combustibles

### **Precautionary Statements - Response**

P320 - Specific treatment is urgent (see First-Aid Measures on SDS)

- P321 Specific treatment (see First-Aid Measures on SDS)
- P310 Immediately call a POISON CENTER or doctor

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

- P310 Immediately call a POISON CENTER or doctor
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P363 Wash contaminated clothing before reuse
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P330 Rinse mouth
- P331 Do NOT induce vomiting

P370 + P378 - In case of fire: Use CO2, dry chemical, or foam to extinguish

### Precautionary Statements - Storage

P405 - Store locked up P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

### **Precautionary Statements - Disposal**

P501 - Dispose of contents/ container to an approved waste disposal plant

## Unknown acute toxicity

- 21 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 21 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 21 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

### Other information

No information available.

# 3. Composition/information on ingredients

### Substance

Not applicable.

### Mixture

Synonyms

Mixed Acid Etchant.

| Chemical name     | CAS No    | Weight-%  | Formula          | Molecular Weight |
|-------------------|-----------|-----------|------------------|------------------|
| Water             | 7732-18-5 | 60.5-61.5 | H <sub>2</sub> O | 18.00 g/mol      |
| Nitric acid       | 7697-37-2 | 20.0-21.0 | HNO₃             | 63.01 g/mol      |
| Hydrogen fluoride | 7664-39-3 | 18.0-19.0 | HF               | 20.01 g/mol      |

# 4. First-aid measures

### **Description of first aid measures**

| General advice                     | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.  |
|------------------------------------|--|
| Inhalation                         | Remove to fresh air. 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. If breathing is difficult, (trained personnel should) give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately. Delayed pulmonary edema may occur. Get immediate medical attention. Immediate medical attention is required.               |
| Eye contact                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical attention. Remove contact lenses, if present and easy to do. Continue rinsing.  |
| Skin contact                       | IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get immediate medical attention.   |
| Ingestion                          | Get immediate medical attention. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person.   |
| 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. Use personal protective equipment as required. See section 8 for more information. Do not breathe vapor or mist. 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. Avoid contact with skin, eyes or clothing. |
| Most important symptoms and effe   | cts, both acute and delayed  |
| Symptoms                           | Coughing and/ or wheezing. Difficulty in breathing. Burning sensation.   |
| Indication of any immediate medica | al attention and special treatment needed  |
| Note to physicians                 | Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.<br>Possible perforation of stomach or esophagus should be investigated. Do not give   |

chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

### 5. Fire-fighting measures Suitable Extinguishing Media Use water. Do not use dry chemicals or foams. CO<sub>2</sub> or Halon may provide limited control. Flood fire area with water from a distance. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out. Large Fire CAUTION: Use of water spray when fighting fire may be inefficient. Unsuitable extinguishing media Dry chemical. Specific hazards arising from the These substances will accelerate burning when involved in a fire. Some may decompose chemical explosively when heated or involved in a fire. May ignite combustibles (wood paper, oil, clothing, etc.). Runoff may create fire or explosion hazard. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Explosion data Sensitivity to mechanical impact None. Sensitivity to static discharge Yes. Special protective equipment and Firefighters should wear self-contained breathing apparatus and full firefighting turnout precautions for fire-fighters gear. Use personal protection equipment. Do not move cargo or vehicle if cargo has been exposed to heat. Oxidizer. May ignite combustibles (wood paper, oil, clothing, etc.). Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

### 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

| Personal precautions | Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. 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. See section 8 for more information. Stop leak if you can do it without risk. Use personal protective equipment as required. Do not breathe vapor or mist. Attention! Corrosive material. |
|----------------------|---|
| Other information    | Keep combustibles (wood, paper, oil, etc) away from spilled material. DO NOT GET WATER INSIDE CONTAINERS. Ventilate the area. Refer to protective measures listed in Sections 7 and 8.  |

### Methods and material for containment and cleaning up

| Methods for containment | Dike far ahead of spill; use dry sand to contain the flow of material. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Stop leak if you can do it without risk.  |
|-------------------------|---|
| Methods for cleaning up | Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Flush area with flooding quantities of water. Prevent product from entering drains. |

## 7. Handling and storage

### Precautions for safe handling

Advice on safe handlingUse personal protection equipment. Avoid contact with skin, eyes or clothing. Keep away<br/>from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do<br/>not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.<br/>Handle in accordance with good industrial hygiene and safety practice. Take off<br/>contaminated clothing and wash before reuse. Do not breathe vapor or mist. In case of<br/>insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed<br/>system or provide appropriate exhaust ventilation.Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Do not store near combustible materials. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Protect from moisture. Store away from other materials.

### 8. Exposure controls/personal protection

### Control parameters

### **Exposure Limits**

| Chemical name     | ACGIH TLV                  | OSHA PEL                             | NIOSH                               |
|-------------------|----------------------------|--------------------------------------|-------------------------------------|
| Nitric acid       | STEL: 4 ppm                | TWA: 2 ppm                           | IDLH: 25 ppm                        |
|                   | TWA: 2 ppm                 | TWA: 5 mg/m <sup>3</sup>             | TWA: 2 ppm                          |
|                   |                            | (vacated) TWA: 2 ppm                 | TWA: 5 mg/m <sup>3</sup>            |
|                   |                            | (vacated) TWA: 5 mg/m <sup>3</sup>   | STEL: 4 ppm                         |
|                   |                            | (vacated) STEL: 4 ppm                | STEL: 10 mg/m <sup>3</sup>          |
|                   |                            | (vacated) STEL: 10 mg/m <sup>3</sup> |                                     |
|                   |                            |                                      |                                     |
| Hydrogen fluoride | TWA: 0.5 ppm FS*Ceiling: 2 | TWA: 3 ppm F                         | IDLH: 30 ppm                        |
|                   | ppm F                      | TWA: 2.5 mg/m <sup>3</sup> F         | IDLH: 250 mg/m <sup>3</sup> F       |
|                   |                            | (vacated) TWA: 3 ppm F               | Ceiling: 6 ppm 15 min               |
|                   |                            | (vacated) TWA: 2.5 mg/m <sup>3</sup> | Ceiling: 5 mg/m <sup>3</sup> 15 min |
|                   |                            | (vacated) STEL: 6 ppm F              | TWA: 3 ppm                          |
|                   |                            |                                      | TWA: 2.5 mg/m <sup>3</sup>          |

### Biological occupational exposure limits

| Chemical name     | ACGIH   |
|-------------------|---|
| Hydrogen fluoride | 3 mg/g creatinine - urine (Fluoride) - prior to shift 10 mg/g |
|                   | creatinine - urine (Fluoride) - end of shift                  |

### Appropriate engineering controls

| Engineering controls | Showers              |
|----------------------|----------------------|
|                      | Eyewash stations     |
|                      | Ventilation systems. |

# Individual protection measures, such as personal protective equipment

Eye/face protectionTight sealing safety goggles. Face protection shield.Hand protectionWear suitable gloves. Impervious gloves.

| Skin and body protection       | Chemical resistant apron. Wear fire/flame resistant/retardant clothing. Wear suitable protective clothing. Long sleeved clothing. Impervious clothing.  |
|--------------------------------|---|
| Respiratory protection         | When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  |
| General hygiene considerations | Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. 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. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not breathe vapor or mist. |

# 9. Physical and chemical properties

| Information on basic physical and chemical properties |                          |                   |  |
|---|--------------------------|-------------------|--|
| Physical state  | Liquid                   |                   |  |
| Appearance  | Clear                    |                   |  |
| Color   | Colorless                |                   |  |
| Odor  | No information available |                   |  |
| Odor threshold  | No information available |                   |  |
| Property_   | Values                   | Remarks • Method  |  |
| pH  | No data available        | No data available |  |
| pH (as aqueous solution)                              | No data available        | No data available |  |
| Melting point / freezing point                        | No data available        | No data available |  |
| Initial boiling point and boiling                     | No data available        | No data available |  |
| range   |                          |                   |  |
| Flash point   | No data available        | No data available |  |
| Evaporation rate                                      | No data available        | No data available |  |
| Flammability  | No data available        | No data available |  |
| Flammability Limit in Air                             |                          |                   |  |
| Upper flammability or explosive                       | No data available        | No data available |  |
| limits  |                          |                   |  |
| Lower flammability or explosive                       | No data available        | No data available |  |
| limits  |                          |                   |  |
| Vapor pressure  | No data available        | No data available |  |
| Relative vapor density                                | No data available        | No data available |  |
| Relative density                                      | No information available | No data available |  |
| Water solubility                                      | No data available        | No data available |  |
| Solubility(ies)                                       | No data available        | No data available |  |
| Partition coefficient                                 | No data available        | No data available |  |
| Autoignition temperature                              | No data available        | No data available |  |
| Decomposition temperature                             |                          |                   |  |
| Kinematic viscosity                                   | No data available        | No data available |  |
| Dynamic viscosity                                     | No data available        | No data available |  |
|   |                          |                   |  |
| Other information                                     |                          |                   |  |
| Explosive properties                                  | No information available |                   |  |
| Oxidizing properties                                  | No information available |                   |  |
| Softening point                                       | No information available |                   |  |
| Molecular weight                                      |                          |                   |  |
| VOC content   | No information available |                   |  |
| Liquid Density  | No information available |                   |  |
| Bulk density  | No information available |                   |  |

# 10. Stability and reactivity

| Reactivity   | Oxidizer.  |
|--|--|
| Chemical stability   | May cause fire or explosion; strong oxidizer.  |
| Possibility of hazardous reactions   | None under normal processing.  |
| Conditions to avoid  | Heat, flames and sparks. Incompatible materials. Excessive heat. Exposure to air or moisture over prolonged periods. |
| Incompatible materials   | Organic material. Combustible material. Hydrocarbons. Acids. Bases. Oxidizing agent.                                 |
| Hazardous decomposition products None known based on information supplied. |  |

# 11. Toxicological information

### Information on likely routes of exposure

### **Product Information**

| Inhalation   | Specific test data for the substance or mixture is not available. Fatal if inhaled. (based on components). Corrosive by inhalation. 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. |
|--|---|
| Eye contact  | Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.   |
| Skin contact   | Specific test data for the substance or mixture is not available. Fatal in contact with skin. (based on components). Corrosive. Causes burns.   |
| 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. Fatal if swallowed.           |
| Symptoms related to the physical,  | chemical and toxicological characteristics  |
| Symptoms   | Coughing and/ or wheezing. Difficulty in breathing. Redness. Burning. May cause blindness.  |
| Acute toxicity   |   |
| Numerical measures of toxicity   |   |
| The following values are calculated<br>ATEmix (oral)<br>ATEmix (dermal)<br>ATEmix (inhalation-gas)<br>ATEmix (inhalation-vapor)<br>ATEmix (inhalation-dust/mist) | l based on chapter 3.1 of the GHS document<br>20.83 mg/kg<br>20.80 mg/kg<br>2,007.7954 ppm<br>99,999.00 mg/l<br>0.1849 mg/l   |
| Unknown acute toxicity   |   |

- 21 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 21 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 21 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

### **Component Information**

| Chemical name     | Oral LD50       | Dermal LD50 | Inhalation LC50       |
|-------------------|-----------------|-------------|-----------------------|
| Water             | >90 mL/kg (Rat) | -           | -                     |
| Nitric acid       | -               | -           | = 2500 ppm (Rat) 1 h  |
| Hydrogen fluoride | -               | -           | = 0.79 mg/L (Rat) 1 h |

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

| Skin corrosion/irritation         | Classification based on data available for ingredients. Causes severe skin burns and eye damage. |
|-----------------------------------|--|
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Causes serious eye damage. Causes burns. |
| Respiratory or skin sensitization | No information available.  |
| Germ cell mutagenicity            | No information available.  |
| Carcinogenicity                   | No information available.  |
| Reproductive toxicity             | No information available.  |
| STOT - single exposure            | No information available.  |
| STOT - repeated exposure          | No information available.  |
| Target organ effects              | Respiratory system, Eyes, Skin, Teeth.   |
| Aspiration hazard                 | No information available.  |
| Other adverse effects             | No information available.  |
| Interactive effects               | No information available.  |

# 12. Ecological information

### Ecotoxicity

| Chemical name     | Algae/aquatic plants | Fish                                      | Toxicity to<br>microorganisms | Crustacea                                |
|-------------------|----------------------|---|-------------------------------|--|
| Nitric acid       | -                    | 96h LC50: = 72 mg/L<br>(Gambusia affinis) | -                             | -  |
| Hydrogen fluoride | -                    | -   | -                             | 48h EC50: = 270<br>mg/L(Daphnia species) |

### **Bioaccumulation**

| Component Information |                       |  |  |  |
|-----------------------|-----------------------|--|--|--|
| Chemical name         | Partition coefficient |  |  |  |
| Nitric acid           | -2.3                  |  |  |  |
| Hydrogen fluoride     | -1.4                  |  |  |  |

Other adverse effects

No information available.

| 13. Disposal considerations            |  |  |  |
|--|--|--|--|
| Disposal methods                       |  |  |  |
| Waste from residues/unused<br>products | Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |  |  |
| Contaminated packaging                 | Do not reuse empty containers. Dispose of contents/containers in accordance with local regulations.  |  |  |
| California Hazardous Waste Status      | This product contains one or more substances that are listed with the State of California as a hazardous waste.  |  |  |

# 14. Transport information

| DOT                        | Regulated  |
|----------------------------|--|
| UN number or ID number     | UN2922   |
| Proper shipping name       | Corrosive liquids, toxic, n.o.s. (nitric acid and hydrofluoric acid) |
| Transport hazard class(es) | 8  |
| Subsidiary hazard class    | 6.1  |
| Packing group              | II   |
| DOT Marine Pollutant       | No   |
| <u>TDG</u>                 | Regulated  |
| UN number or ID number     | UN2922   |
| UN proper shipping name    | Corrosive liquids, toxic, n.o.s. (nitric acid and hydrofluoric acid) |
| Transport hazard class(es) | 8  |
| Subsidiary hazard class    | 6.1  |
| Packing group              | II   |
| ICAO (air)                 | Regulated  |
| UN number or ID number     | UN2922   |
| UN proper shipping name    | Corrosive liquids, toxic, n.o.s. (nitric acid and hydrofluoric acid) |
| Transport hazard class(es) | 8  |
| Subsidiary hazard class    | 6.1  |
| Packing group              | II   |
| IATA_                      | Regulated  |
| UN number or ID number     | UN2922   |
| UN proper shipping name    | Corrosive liquids, toxic, n.o.s. (nitric acid and hydrofluoric acid) |
| Transport hazard class(es) | 8  |

| Subsidiary hazard class    | 6.1  |
|----------------------------|--|
| Packing group              | II   |
| IMDG                       | Regulated  |
| UN number or ID number     | UN2922   |
| UN proper shipping name    | Corrosive liquids, toxic, n.o.s. (nitric acid and hydrofluoric acid) |
| Transport hazard class(es) | 8  |
| Subsidiary hazard class    | 6.1  |
| Packing group              | II   |

# 15. Regulatory information

| International Inventories |   |
|---------------------------|---|
| TSCA                      | Complies.   |
| DSL/NDSL                  | Complies.   |
| EINECS/ELINCS             | Contact supplier for inventory compliance status. |
| ENCS                      | Contact supplier for inventory compliance status. |
| IECSC                     | Contact supplier for inventory compliance status. |
| KECL                      | Contact supplier for inventory compliance status. |
| PICCS                     | Contact supplier for inventory compliance status. |
| AIIC                      | Contact supplier for inventory compliance status. |
| NZIOC                     | Contact supplier for inventory compliance status. |
|                           |   |

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

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

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

 IECSC
 - China Inventory of Existing Chemical Substances

 KECL
 - Korean Existing and Evaluated Chemical Substances

 PICCS
 - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

### 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                  | SARA 313 - Threshold Values % |
|--------------------------------|-------------------------------|
| Nitric acid<br>7697-37-2       | 1.0                           |
| Hydrogen fluoride<br>7664-39-3 | 1.0                           |

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### 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<br>Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous<br>Substances |
|-------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Nitric acid       | 1000 lb                        | -                      | -                         | Х                             |
| Hydrogen fluoride | 100 lb                         | -                      | -                         | Х                             |

<u>CERCLA</u> 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<br>Substances RQs | Reportable Quantity (RQ)                  |
|-------------------|--------------------------|---------------------------------------|---|
| Nitric acid       | 1000 lb                  | 1000 lb                               | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |
| Hydrogen fluoride | 100 lb                   | 100 lb                                | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ |

### US State Regulations

<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals.

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

| Chemical name     | New Jersey | Massachusetts | Pennsylvania |
|-------------------|------------|---------------|--------------|
| Water             | -          | -             | Х            |
| Nitric acid       | Х          | Х             | Х            |
| Hydrogen fluoride | Х          | Х             | Х            |

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

| 16. Other information   |  |  |   |
|---|--|--|---|
|   | Flammability 0<br>Flammability 0<br>alth Hazard          | Instability 1<br>Physical hazards 1                | Special hazards OX<br>Personal protection X |
| Key or legend to abbreviations and acronyms useLegendSection 8: EXPOSURE CONTROLS/PERTWATWA (time-weighted average)CeilingMaximum limit value   | ed in the safety data s<br>SONAL PROTECTION<br>STEL<br>* | sheet<br>N<br>STEL (Short Tern<br>Skin designation | n Exposure Limit)                           |
| Key literature references and sources for data used to compile the SDS<br>Agency for Toxic Substances and Disease Registry (ATSDR)<br>U.S. Environmental Protection Agency ChemView Database<br>European Food Safety Authority (EFSA)<br>EPA (Environmental Protection Agency)<br>Acute Exposure Guideline Level(s) (AEGL(s))<br>U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act<br>U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act<br>U.S. Environmental Protection Agency High Production Volume Chemicals<br>Food Research Journal<br>Hazardous Substance Database<br>International Uniform Chemical Information Database (IUCLID)<br>National Institute of Technology and Evaluation (NITE)<br>Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)<br>NIOSH (National Institute for Occupational Safety and Health)<br>National Library of Medicine's ChemID Plus (NLM CIP)<br>National Library of Medicine's PubMed database (NLM PUBMED)<br>National Toxicology Program (NTP)<br>New Zealand's Chemical Classification and Information Database (CCID)<br>Organization for Economic Co-operation and Development Environment, Health, and Safety Publications |  |  |   |

Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

**Revision date Revision Note** 

17-Apr-2023 No information available.

D<u>isclaimer</u>

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**