# 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** 14-Mar-2023 **Revision Number** 1

## 1. Identification

**Product identifier**

**Product Name** Buffered Chemical Polish 50:25:25 Electronic Grade

**Other means of identification**

**Product Code(s)** 0922

**UN number or ID number** UN2922

**Synonyms** No information available

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

**Recommended use** Industrial use
Laboratory use
Industrial Manufacturing (all)

**Restrictions on use** No information available

**Details of the supplier of the safety data sheet**

**Supplier Address**
Columbus Chemical Industries, Inc.
N4335 Temkin Rd.
Columbus, WI 53925 USA
Phone: (920) 623-2140
Fax (920) 623-2577
www.columbuschemical.com

**Emergency telephone number**

**24 Hour Emergency Phone Number** CHEMTREC: 1-800-424-9300 for US / 703-527-3887 outside US

**Emergency Telephone** 911

## 2. Hazard(s) identification

**Classification**

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

**Hazards not otherwise classified (HNOC)**
Not applicable

**Label elements**

**Danger**

**Hazard statements**

Fatal if swallowed
Fatal in contact with skin
Fatal if inhaled
Toxic if inhaled
Causes severe skin burns and eye damage
May cause cancer

**Precautionary Statements - Prevention**

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/clothing and eye/face protection
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
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear respiratory protection

**Precautionary Statements - Response**

Specific treatment is urgent (see SDS)
Immediately call a 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 doctor
Immediately call a doctor
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower
Wash contaminated clothing before reuse
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Immediately call a doctor
IF SWALLOWED: Immediately call a doctor
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

**Unknown acute toxicity**

51 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
51 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
70 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
48 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

**Other information**

No information available.

## 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

| Chemical name | CAS No | Weight-% | Formula | Molecular Weight |
|---|---|---|---|---|
| Phosphoric acid | 7664-38-2 | 46 - 51 | H3PO4 | 98.00 g/mol |
| Water | 7732-18-5 | Balance | H2O | 18.00 g/mol |
| Nitric acid | 7697-37-2 | 14 - 19 | HNO3 | 63.01 g/mol |
| Hydrogen fluoride | 7664-39-3 | 8 - 11 | 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. IF exposed or concerned: Get medical advice/attention.

**Inhalation** If breathing has stopped, give artificial respiration. Get medical attention immediately. 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. Delayed pulmonary edema may occur. Get immediate medical attention. Immediate medical attention is required.

**Eye contact** Get immediate medical attention. 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. Remove contact lenses, if present and easy to do. Continue rinsing.

**Skin contact** Get immediate medical attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**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. 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. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing.

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

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

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

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. 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 extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical** 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** None.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

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

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Do not breathe vapor or mist. Keep people away from and upwind of spill/leak. Attention! Corrosive material.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## 7. Handling and storage

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse. Do not breathe vapor or mist. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. 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 |
|---|---|---|---|
| Phosphoric acid | STEL: 3 mg/m$^3$<br>TWA: 1 mg/m$^3$ | TWA: 1 mg/m$^3$<br>(vacated) TWA: 1 mg/m$^3$<br>(vacated) STEL: 3 mg/m$^3$ | IDLH: 1000 mg/m$^3$<br>TWA: 1 mg/m$^3$<br>STEL: 3 mg/m$^3$ |
| Nitric acid | STEL: 4 ppm<br>TWA: 2 ppm | TWA: 2 ppm<br>TWA: 5 mg/m$^3$<br>(vacated) TWA: 2 ppm | IDLH: 25 ppm<br>TWA: 2 ppm<br>TWA: 5 mg/m$^3$ |

| | | | |
|---|---|---|---|
| | | (vacated) TWA: 5 mg/m$^3$<br>(vacated) STEL: 4 ppm<br>(vacated) STEL: 10 mg/m$^3$ | STEL: 4 ppm<br>STEL: 10 mg/m$^3$ |
| Hydrogen fluoride | TWA: 0.5 ppm FS*Ceiling: 2 ppm F | TWA: 3 ppm F<br>TWA: 2.5 mg/m$^3$ F<br>(vacated) TWA: 3 ppm F<br>(vacated) TWA: 2.5 mg/m$^3$<br>(vacated) STEL: 6 ppm F | IDLH: 30 ppm<br>IDLH: 250 mg/m$^3$ F<br>Ceiling: 6 ppm 15 min<br>Ceiling: 5 mg/m$^3$ 15 min<br>TWA: 3 ppm<br>TWA: 2.5 mg/m$^3$ |

**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 protection** Tight sealing safety goggles. Face protection shield.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Impervious clothing. Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

**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. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Do not breathe vapor or mist. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

**Physical state** Liquid
**Appearance** Clear, colorless
**Color** No information available
**Odor** No information available
**Odor threshold** No information available

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | No data available | |
| **pH (as aqueous solution)** | No data available | |
| **Melting point / freezing point** | No data available | |
| **Initial boiling point and boiling range** | No data available | |
| **Flash point** | No data available | |
| **Evaporation rate** | No data available | |

| | | |
|---|---|---|
| **Flammability** | No data available | |
| **Flammability Limit in Air** | | |
| **Upper flammability or explosive limits** | No data available | |
| **Lower flammability or explosive limits** | No data available | |
| **Vapor pressure** | No data available | |
| **Relative vapor density** | No data available | |
| **Relative density** | No data available | |
| **Water solubility** | Soluble in water | No data available |
| **Solubility(ies)** | No data available | |
| **Partition coefficient** | No data available | |
| **Autoignition temperature** | No data available | |
| **Decomposition temperature** | | |
| **Kinematic viscosity** | No data available | |
| **Dynamic viscosity** | 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** No information available.

**Chemical stability** Stable under normal conditions.

**Possibility of hazardous reactions** None under normal processing.

**Conditions to avoid** Excessive heat. Exposure to air or moisture over prolonged periods.

**Incompatible materials** 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 based on chapter 3.1 of the GHS document**

| | |
|---|---|
| **ATEmix (oral)** | 8.45 mg/kg |
| **ATEmix (dermal)** | 8.44 mg/kg |
| **ATEmix (inhalation-gas)** | 499.50 ppm |
| **ATEmix (inhalation-vapor)** | 3.28 mg/l |
| **ATEmix (inhalation-dust/mist)** | 0.009 mg/l |

**Unknown acute toxicity**

51 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
51 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
70 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
48 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

**Component Information**

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Phosphoric acid | = 1530 mg/kg ( Rat ) | = 2740 mg/kg ( Rabbit ) | > 850 mg/m$^3$ ( Rat ) 1 h |
| 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** Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

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

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Nitric acid | - | Group 2A<br>Group 1 | - | X |

**Legend**

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans
**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**
X - Present

**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 microorganisms | Crustacea |
|---|---|---|---|---|
| Nitric acid | - | 96h LC50: = 72 mg/L (Gambusia affinis) | - | - |
| Hydrogen fluoride | - | - | - | 48h EC50: = 270 mg/L(Daphnia species) |

**Persistence and degradability** No information available.

**Bioaccumulation**

**Component Information**

| Chemical name | Partition coefficient |
|---|---|
| Phosphoric acid | -0.9 |
| Nitric acid | -2.3 |
| Hydrogen fluoride | -1.4 |

**Other adverse effects** No information available.

## 13. Disposal considerations

**Disposal methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**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 liquid, Toxic, N.O.S (Nitric acid & Hydrofluoric acid) |
| **Transport hazard class(es)** | 8 |
| **Subsidiary hazard class** | 6.1 |
| **Packing group** | II |
| **DOT Marine Pollutant** | No |

| | |
|---|---|
| **TDG** | Regulated |
| **UN number or ID number** | UN2922 |
| **UN proper shipping name** | Corrosive liquid, Toxic, N.O.S (Nitric acid & Hydrofluoric acid) |
| **Transport hazard class(es)** | 8 |
| **Subsidiary hazard class** | 6.1 |
| **Packing group** | II |

| | |
|---|---|
| **IATA / ICAO** | Regulated |
| **UN number or ID number** | UN2922 |
| **UN proper shipping name** | Corrosive liquid, Toxic, N.O.S (Nitric acid & 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 liquid, Toxic, N.O.S (Nitric acid & Hydrofluoric acid) |
| **Transport hazard class(es)** | 8 |
| **Subsidiary hazard class** | 6.1 |
| **Packing group** | II |

## 15. Regulatory information

**International Inventories**

| | |
|---|---|
| **TSCA** | Active |
| **DSL/NDSL** | Contact supplier for inventory compliance status. |
| **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 Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Phosphoric acid | 5000 lb | - | - | X |
| Nitric acid | 1000 lb | - | - | X |
| Hydrogen fluoride | 100 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 | Reportable Quantity (RQ) |
|---|---|---|---|
| Phosphoric acid | 5000 lb | - | RQ 5000 lb final RQ<br>RQ 2270 kg final 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**

**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 |
|---|---|---|---|
| Phosphoric acid | X | X | X |
| Nitric acid | X | X | X |
| Water | - | - | X |
| Hydrogen fluoride | X | X | X |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

## 16. Other information

**NFPA**

**Instability** 0 **Health hazards** 4 **Flammability** 0
**Special hazards**

**HMIS**

**Health hazards** 4 * **Flammability** 0 **Physical hazards** 0
**Personal protection** X
*Chronic Hazard Star Legend* ** = Chronic Health Hazard*

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

| | |
|---|---|
| TWA | TWA (time-weighted average) |
| STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value |
| * | Skin designation |

**Key literature references and sources for data used to compile the SDS**
Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine’s PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
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** 14-Mar-2023
**Revision Note** 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**

**US SDS version information - AGHS**
UL release:
GHS Revision 3
2022 Q3

**United States of America** Partial process

| Chemical name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|
| Hydrogen fluoride | U134 | - | - | U134 |

| Chemical name | California Hazardous Waste Status |
|---|---|
| Phosphoric acid | Corrosive |
| Nitric acid | Toxic<br>Corrosive<br>Ignitable |