SAFETY DATA SHEET

1. Product and Company Identification

| Product identifier | Reagent #3 Metal Stain Remover | | |
|---|--|---|--|
| Other means of identification | Not available | | |
| Recommended use | Rust Stain Remover | | |
| Recommended restrictions | None known. | | |
| Manufacturer information | Dr Fred's Innovative Solutions 321-514-6845 | | |
| Supplier | See above. | | |
| | 2. Hazards Identifie | cation | |
| Physical hazards | Corrosive to metals | Category 1 | |
| Health hazards | Skin corrosion/irritation | Category 1 | |
| | Serious eye damage/eye irritation | Category 1 | |
| Environmental hazards | Not classified. | | |
| WHMIS 2015 defined hazards Label elements | Not classified | | |
| | The second secon | | |
| | $\mathbf{\vee}$ | | |
| Signal word | Danger | | |
| Hazard statement | May be corrosive to metals. Causes severe skin burns and eye damage. | | |
| Precautionary statement | | | |
| Prevention | Keep only in original packaging. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. | | |
| Response | Absorb spillage to prevent material-damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Specific treatment (see information on this label). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | | |
| Storage | | with a resistant inner liner. Store locked up. | |
| Disposal | Dispose of contents/container in accord | ance with local/regional/national/international regulations | |
| WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC) | None known | | |
| WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC) | None known | | |
| Hazard(s) not otherwise classified (HNOC) | None known. | | |
| Supplemental information | None. | | |
| | 3. Composition/Information | on Ingradiante | |

| chemical name | Common name and synonyms | CAS number | % |
|-----------------|--------------------------|------------|-------|
| Oxalic acid | | 144-62-7 | 5-10 |
| 1,2-Propanediol | | 57-55-6 | 1 - 5 |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

| | 4. First Aid Measures | |
|--|--|--|
| Inhalation | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. | |
| Skin contact | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse. Specific treatment (see information on this label). | |
| Eye contact | 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. | |
| Ingestion | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. | |
| Most important symptoms/effects, acute and delayed | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. | |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Symptoms may be delayed. | |
| General information | Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Wear rubber gloves and chemical splash goggles. Keep out of reach of children. | |
| | 5. Fire Fighting Measures | |
| Suitable extinguishing media | Dry chemical. Water spray. Foam. Carbon dioxide. | |
| Unsuitable extinguishing media | Do not use water jet as an extinguisher, as this will spread the fire. | |
| Specific hazards arising from the chemical | Firefighters should wear a self-contained breathing apparatus. | |
| Special protective equipment and precautions for firefighters | Firefighters should wear full protective clothing including self-contained breathing apparatus. | |
| Fire-fighting equipment/instructions | Move containers from fire area if you can do so without risk. | |
| Specific methods | Use standard firefighting procedures and consider the hazards of other involved materials. | |
| Hazardous combustion products | May include and are not limited to: Oxides of carbon. Oxides of nitrogen. Hydrogen fluoride. | |
| | 6. Accidental Release Measures | |
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep out of low areas. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. | |
| Methods and materials for | Should not be released into the environment. | |
| containment and cleaning up | Large Spills: Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. | |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Prevent entry into waterways, sewers, basements or confined areas. | |
| | 7. Handling and Storage | |
| Precautions for safe handling | DANGER CORROSIVE Use only with adequate ventilation. Do not taste or swallow. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing. Avoid breathing vapors or mists of this product. | |

Conditions for safe storage, Store locked up. Store in a closed container away from incompatible materials. Keep only in the **including any incompatibilities** original container. Store in a cool, dry place out of direct sunlight. Store in a corrosion resistant container with a resistant inner liner.

8. Exposure Controls/Personal Protection

| Canada. Alberta OELs (Occupation Components | Туре | Value | |
|---|-----------------------------|---|--------------------------------|
| Oxalic acid (CAS 144-62-7) | STEL | 2 mg/m3 | |
| | TWA | 1 mg/m3 | |
| Canada. British Columbia OELs. (O Safety Regulation 296/97, as ameno | | re Limits for Chemical Substances, C | Occupational Health and |
| Components | Туре | Value | |
| Oxalic acid (CAS 144-62-7) | STEL | 2 mg/m3 | |
| | TWA | 1 mg/m3 | |
| Canada. Manitoba OELs (Reg. 217/2 Components | 2006, The Workplace Type | e Safety And Health Act) Value | |
| Oxalic acid (CAS 144-62-7) | STEL | 2 mg/m3 | |
| | TWA | 1 mg/m3 | |
| Canada. Ontario OELs. (Control of | Exposure to Biologi | cal or Chemical Agents) | |
| Components | Туре | Value | Form |
| I,2-Propanediol (CAS 57-55-6) | TWA | 155 mg/m3 | Vapor and aerosol. |
|)/-00-0) | | 10 mg/m3 50 ppm | Aerosol. Vapor and aerosol. |
| Dxalic acid (CAS 144-62-7) | STEL | 2 mg/m3 | |
| | TWA | 1 mg/m3 | |
| Canada. Quebec OELs. (Ministry of Components | Labor - Regulation Type | Respecting the Quality of the Work E Value | nvironment) |
| Oxalic acid (CAS 144-62-7) | STEL | 2 mg/m3 | |
| | TWA | 1 mg/m3 | |
| US. OSHA Table Z-1 Limits for Air C Components | Contaminants (29 CF Type | R 1910.1000) Value | |
| Dxalic acid (CAS 144-62-7) | PEL | 1 mg/m3 | |
| JS. ACGIH Threshold Limit Values Components | Туре | Value | |
| Dxalic acid (CAS 144-62-7) | STEL | 2 mg/m3 | |
| | TWA | 1 mg/m3 | |
| IC NIOSILI Desket Quide to Chami | | Ting, inc | |
| JS. NIOSH: Pocket Guide to Chemi Components | cai Hazards Type | Value | |
| Oxalic acid (CAS 144-62-7) | STEL | 2 mg/m3 | |
| | TWA | 1 mg/m3 | |
| JS. AIHA Workplace Environmenta Components | l Exposure Level (W Type | EEL) Guides Value | Form |
| 1,2-Propanediol (CAS 57-55-6) | TWA | 10 mg/m3 | Aerosol. |
| ogical limit values No bio | ological exposure limit | s noted for the ingredient(s). | |
| osure guidelines | - • | | |
| Canada - Manitoba OELs: Skin desi | gnation | | |
| Hydrogen fluoride (CAS 7664-39- | | Can be absorbed through the skin. | |
| Canada - Ontario OELs: Skin desig | | | |
| Hydrogen fluoride (CAS 7664-39- US ACGIH Threshold Limit Values: | | Can be absorbed through the skin. | |
| Hydrogen fluoride (CAS 7664-39- | 0) | Can be absorbed through the skin. | |

| Appropriate engineering controls | Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. |
|-----------------------------------|---|
| Individual protection measures, | such as personal protective equipment |
| Eye/face protection | Wear safety glasses with side shields (or goggles) and a face shield. |
| Skin protection Hand | |
| protection Other | Rubber gloves. Confirm with a reputable supplier first. |
| - | As required by employer code. Rubber apron recommended. |
| Respiratory protection | Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2). |
| Thermal hazards | Not applicable. |
| General hygiene considerations | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands before breaks and immediately after handling the product. When using do not eat or drink. |

| 9. Physical and Chemical Properties | | | |
|--|------------------------------|--|--|
| Appearance | Clear | | |
| Physical state | Liquid. | | |
| Form | Liquid. | | |
| Color | Colorless | | |
| Odor | Lime. | | |
| Odor threshold | Not available. | | |
| рН | < 1 | | |
| Melting point/freezing point | Not available. | | |
| Initial boiling point and boiling range | Not available. | | |
| Pour point | Not available. | | |
| Specific gravity | 1.025 | | |
| Partition coefficient (n-octanol/water) | Not available. | | |
| Flash point | Not available. | | |
| Evaporation rate | Not available. | | |
| Flammability (solid, gas) | Not applicable. | | |
| Upper/lower flammability or exp | losive limits | | |
| Flammability limit - lower (%) | Not available. | | |
| Flammability limit - upper (%) | Not available. | | |
| Explosive limit - lower (%) | Not available. | | |
| Explosive limit - upper (%) | Not available. | | |
| Vapor pressure | Not available. | | |
| Vapor density | Not available. | | |
| Relative density | Not available. | | |
| Solubility(ies) | Not available. | | |
| Auto-ignition temperature | Not available. | | |
| Decomposition temperature | Not available. | | |
| Viscosity | Not available. | | |
| | 10. Stability and Reactivity | | |

| Reactivity | Reacts violently with alkaline material. This product may react with reducing agents. | |
|---------------------------------------|--|--|
| Possibility of hazardous reactions | Hazardous polymerization does not occur. | |
| Chemical stability | Stable under recommended storage conditions. | |
| Conditions to avoid | Reacts violently with strong alkaline substances. This product may react with reducing agents. | |

11. Toxicological Information

| Routes of exposure | Eye, Skin contact, Skin absorption, Inhalation, Ingestion. | |
|--|---|--|
| Information on likely routes of exposure | | |
| Ingestion | Causes digestive tract burns. | |
| Inhalation | Prolonged inhalation may be harmful. May cause irritation to the respiratory system. | |
| Skin contact | Causes severe skin burns. | |
| Eye contact | Causes serious eye damage. | |
| Symptoms related to the physical, chemical and toxicological characteristics | Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. | |

Information on toxicological effects

Acute toxicity

Causes severe skin burns and eye damage.

| Components | Species | Test Results |
|-------------------------------------|--|--|
| 1,2-Propanediol (CAS 57-55-6) | | |
| Acute | | |
| DERMAL | | |
| LD50 | Rabbit | > 2000 mg/kg, 24 Hours |
| | | 20800 mg/kg |
| INHALATION | | |
| LC50 | Not available | |
| ORAL | _ | |
| LD50 | Dog | 19000 mg/kg |
| | Guinea pig | 184000 mg/kg |
| | | 19700 mg/kg |
| | Mouse | 24900 mg/kg |
| | | 23900 mg/kg |
| | Rabbit | 14800 mg/kg |
| | Rat | 22000 mg/kg |
| | | 20000 mg/kg |
| Dxalic acid (CAS 144-62-7) | | |
| Acute | | |
| DERMAL | | |
| LD50 | Rabbit | 20000 mg/kg, European Agency for the Evaluation of Medicinal Products |
| ORAL | | |
| LD50 | Rat | 375 mg/kg, Toxicology and Applied Pharmacology |
| | | 9.5 ml/kg, ECHA |
| | | 7.5 ml/kg, ECHA |
| | | 1.1 ml/100g, ECHA |
| Skin corrosion/irritation | Causes severe skin burns and eye damage. | |
| Exposure minutes | Not available. | |
| Erythema value | Not available. | |
| Oedema value | Not available. | |
| Serious eye damage/eye rritation | Causes serious eye damage. | |
| Corneal opacity value | Not available. | |
| Iris lesion value | Not available. | |
| Conjunctival reddening value | Not available. | |

| Conjunctival oedema value | e Not availat | ble. | |
|--|---------------|--|--|
| Recover days | Not availab | ble. | |
| Respiratory or skin sensitization | n | | |
| Canada - Alberta OELs: Irr | itant | | |
| Oxalic acid (CAS 144-62 | 2-7) | Irritant | |
| Respiratory sensitization | Not availab | ble. | |
| Skin sensitization | This produ | ct is not expected to cause skin sensitization. | |
| Mutagenicity | Non-hazar | dous by WHMIS/OSHA criteria. | |
| Carcinogenicity | Not classifi | ied or listed by IARC, NTP, OSHA and ACGIH | I. |
| IARC Monographs. Overall Hydrogen fluoride (CAS | | | 7 - 3 Not classifiable as to carcinogenicity |
| US. OSHA Specifically Reg Not listed. | julated Subst | ances (29 CFR 1910.1001-1050) | |
| Reproductive toxicity | Non-hazar | dous by WHMIS/OSHA criteria. | |
| Teratogenicity | Non-hazar | dous by WHMIS/OSHA criteria. | |
| Specific target organ toxicity - single exposure | Not classifi | ied. | |
| Specific target organ toxicity - repeated exposure | Not classifi | ied. | |
| Aspiration hazard | Not availab | ble. | |
| Chronic effects | Prolonged | inhalation may be harmful. | |
| | | 12. Ecological Information | |
| Ecotoxicity | | f the low pH of this product, it would be expect o aquatic organisms and aquatic systems. | ted to produce significant ecotoxicity upon |
| Ecotoxicological data Components | | Species | Test Results |
| 1,2-Propanediol (CAS 57-55-6) | | | |
| Crustacea | EC50 | Daphnia | 10000 mg/L, 48 Hours |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | > 10000 mg/L, 48 hours |
| Fish | LC50 | Fathead minnow (Pimephales promelas) | 710 mg/L, 96 hours |
| Oxalic acid (CAS 144-62-7) | | | |
| Crustacea | EC50 | Daphnia | 137.5 mg/L, 48 Hours |
| Aquatic | | | |
| Crustacea | EC50 | Water flea (Daphnia magna) | 125 - 150 mg/L, 48 hours |
| Persistence and degradability | | available on the degradability of this product. | |
| Bioaccumulative potential | No data av | | |
| Mobility in soil | | | |
| - | | No data available. Not available. | |
| Mobility in general Other adverse effects | No other a | ndverse environmental effects (e.g. ozone depl ndocrine disruption, global warming potential) are | |
| | | 13. Disposal Considerations | |
| Disposal instructions | reclaim or | deral, state/provincial, and local government re dispose in sealed containers at licensed waste | e disposal site. This material and its |
| | | nust be disposed of as hazardous waste. Do r ter supplies. Do not contaminate ponds, water | |
| Local disposal regulations | Dispose in | accordance with all applicable regulations. | |
| Hozardova wasto oodo | | and should be perimed in discussion between | |

Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the
waste disposal company.Waste from residues /Dispose of in accordance with local regulations. Empty containers or liners may retain som

Waste from residues /
unused productsDispose of in accordance with local regulations. Empty containers or liners may retain some
product residues. This material and its container must be disposed of in a safe manner (see:
Disposal instructions).

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

| Transport of Dangerous Goods | In accordance with Part 2.2.1 (SOR/2014-152) of the Transportation of Dangerous Goods |
|-------------------------------|---|
| (TDG) Proof of Classification | Regulations, we certify that the classification of this product is correct as of the SDS date of issue. |

U.S. Department of Transportation (DOT)

| Basic shipping requirements: | | |
|--|---------------------------------|--|
| UN number | UN1760 | |
| Proper shipping name | Corrosive liquids, n.o.s. | |
| Technical name | Oxalic acid | |
| Hazard class | 8 | |
| Packing group | 111 | |
| Special provisions | IB3, T7, TP1, TP28 | |
| Packaging exceptions | <1.3 Gallons - Limited Quantity | |
| Packaging non bulk | 203 | |
| Packaging bulk | 241 | |
| Transportation of Dangerous Goods (TDG - Canada) | | |

| Basic shipping requirements: | | | |
|------------------------------|--|--|--|
| UN1760 | | | |
| CORROSIVE LIQUID, N.O.S. | | | |
| OXALIC ACID | | | |
| 8 | | | |
| III | | | |
| 16 | | | |
| <5L - Limited Quantity | | | |
| | | | |

DOT



15. Regulatory Information

| Canadian federal regulations | This product has been class contains all the information | ified in accordance with the hazard criteria of the HPR and the SDS required by the HPR. |
|--|---|--|
| Canada CEPA Schedule I: L | isted substance | |
| Hydrofluorosilicic acid (C Hydrogen fluoride (CAS Export Control List (CEPA Not listed. Greenhouse Gases Not listed. Precursor Control Regulati | 7664-39-3) 1999, Schedule 3) | Listed. Listed. |
| 0 | | |
| Not regulated. WHMIS 2015 Exemptions | Not applicable | |
| US federal regulations | This product is a "Hazardou Communication Standard, 2 | s Chemical" as defined by the OSHA Hazard 9 CFR 1910.1200. |

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| 175CA Section 12(a) Export Notification (40 CFR 37, Subpl. D) Oxalized (CAS 144-62-7) 10.% Ore-Time Export Notification only. CERCLA Hazardous Substance List (40 CFR 302.4) Hydrogen fluoride (CAS 7664-39-3) US 03HA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Suportund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - No Free Hazard - No Hydrogen fluoride (CAS 7664-39-3) Clean Air Act (CAN) Bection 112/ Hazardous Substance Hydrogen fluoride (CAS 7664-39-3) Listed - USA Hydrogen fluo | 7004 0 | | |
|---|--|---|--|
| CERCLA Hazardous Substance List (40 CFR 302.4) Listed Hydrogen fluoride (CAS 7664-39-3) Listed US EFCRA Section 304 Extremely Heaz Subs. & CERCLA Haz. Subs. : Section 304 EHS reportable quantity Hydrogen fluoride (CAS 7664-39-3) 100 LBS US. OSHA Specifically Regulated Substances (29 CFR 1910-1001-1050) Not listed. Delayed Hazard - No Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - No Pressure Hazard - No Reactivity Hazard - No Reactivity Hazard - No Reactivity Hazard - No SARA 3171212 Hazardous No other federal regulations No Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Hydrogen fluoride (CAS 7664-39-3) Clean Mare Act (CCM) Hazardous substance Section 112() (40 CFR 663-130) Us catlformal Hazardous Substances (Director's): Listed substance Hydrogen fluoride (CAS 7664-39-3) US catlformal Hazardous Substances (Director's): Listed substance Hydrogen fluoride (CAS 7664-39-3) Us catlformal Hazardous Substances (Director's): Listed substance Hydrogen fluoride (CAS 7664-39-3) Listed. US - Catlformal Hazardous Substances | | | - |
| US EPCRA Section 304 Extremely Hax. Subs. & CERCLA Haz. Subs. Section 304 EHS reportable quantity Hydrogen fluoride (CAS 7664-39-3) 100 LBS Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Vos Delayed Hazard - No Fries Hazard - No Fries Hazard - No Reactivity Hazard - No Hydrofluorosilico add (CAS 7664-39-3) US - Louis Hazard - No Hydrofluorosilico add (CAS 7664-39-3) Listed. US - Minnesota Hazardous Substances Hydrogen fluoride (CAS 7664-39-3) Listed. US - Minnesota Haz Subs: Listed substance Hydrogen fluoride (CAS 7664-39-3) Listed. US - Now Jersey RTK - Substances: Listed substance Hydrofluorosilico add (CAS 7464-39-3) Listed. US - Now Jersey RTK - Substances: Listed substance Hydrofluorosilico add (CAS 7664-39-3) Listed. US - Now Harese Reporting: Listed substance Hydrofluorosilico add (CAS 7664-39-3) Listed. US - Now Harese Reporting: Louised (LAS 7664-39-3) Listed. Hydro | | | 1.0 % One-Time Export Notification only. |
| Hydrogen fluoride (CAS 7664-39-3) 100 LBS US. ORH A Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed. Superfund Amendments and Re-uthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yos Delayed Hazard - No Pressure Hazard - No Pressure Hazard - No Reactivity Hazard - No Pressure Hazar | | | |
| Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Reactivity Hazard - No Hydrogen fluoride (CAS 7664-39-3) Listed - No Hydrogen | Hydrogen fluoride (CAS US. OSHA Specifically Reg | 7664-39-3) | 100 LBS |
| Hazard Categories Immediate Hazard - Yes Delayod Hazard - No Fire Hazard - No Reactivity Hazard - No Reactivity Hazard - No Reactivity Hazard - No Reactivity Hazard - No SARA 302 Extremely No hazardous substance SARA 311/312 Hazardous SARA 313 (TRI reporting) No Cleen Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Hydrogen fluoride (CAS 7664-39-3) Clean Air Act (CAA) Section 112(n) Accidental Release Prevention (40 CFR 68.130) Hydrogen fluoride (CAS 7664-39-3) Clean Water Act (CAM) Section 112(n) Accidental Release Prevention (40 CFR 68.130) Hydrogen fluoride (CAS 7664-39-3) Clean Water Act (CAN) Sattances (Director's): Listed substance Hydrogen fluoride (CAS 7664-39-3) US state regulations US - California Hazardous Substances (Director's): Listed substance Hydrogen fluoride (CAS 7664-39-3) Listed. Oxalis acid (CAS 14-62-7) Listed. US - Louislana Spill Reporting: Listed substance Hydrogen fluoride (CAS 7664-39-3) Listed. US - Minnesota Haz Subs: Listed substance 1,2-Propanedio (CAS 7664-39-3) Listed. US - Minnesota Ha | | authorization Act of 1986 (SA) | RA) |
| Delayed Hazard - No Fire Hazard - No Reactivity Hazard - No SARA 302 Extremely hazardous substance No SARA 311/312 Hazardous Attaratous chemical No SARA 317312 Hazardous No regulated. No Citean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Hydrogen fluoride (CAS 7664-39-3) List Hydrogen fluoride (CAS 7664-39-3) Ciean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Hydrogen fluoride (CAS 7664-39-3) Ciean Water Act (CWA) Hydrogen fluoride (CAS 7664-39-3) Listed. US - California Hazardous Substances (Director's): Listed substance Hydrogen fluoride (CAS 7664-39-3) US - State regulations Listed. US - California Hazardous Substances (Director's): Listed substance Hydrogen fluoride (CAS 7664-39-3) US - Louisian S JIII Reporting: Listed substance Hydrogen fluoride (CAS 7664-39-3) US - Louisian S JIII Reporting: Listed substance Hydrogen fluoride (CAS 7664-39-3) US - Louisian S JIII Reporting: Listed substance Hydrogen fluoride (CAS 7664-39-3) US - New York Release Reporting: Listed substance Listed. 1,2-Propanediol (CAS 57-56-6) Listed. VI - Propanediol (CAS 57-56-6) Listed. Vidrogen fluoride (CAS 766 | | - | |
| h hzardous substance SARA 311/312 Hazardous No chemical SARA 313 (TRI reporting) Not regulated. Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Hydrogen fluoride (CAS 7664-39-3) Clean Air Act (CAA) Section 112 Acaidous Air Pollutants (HAPs) List Hydrogen fluoride (CAS 7664-39-3) Clean Air Act (CAA) Section 112 / Accidental Release Prevention (40 CFR 68.130) Hydrogen fluoride (CAS 7664-39-3) Clean Water Act (CWA) Hazardous substance Section 112(r) (40 CFR 68.130) US state regulations US - California Hazardous Substances (Director's): Listed substance Hydrogen fluoride (CAS 7664-39-3) Listed - Hydrogen fluoride (CAS 7664-39-3) US - California Hazardous Substances (Director's): Listed substance Hydrogen fluoride (CAS 7664-39-3) Listed. Hydrogen fluoride (CAS 7664-39-3) US - California Hazardous Substances (Director's): Listed substance Hydrogen fluoride (CAS 7664-39-3) Listed. Hydrogen fluoride (CAS 7664-39-3) Listed. US - North Carolic Air Method (CAS 7664-39-3) Listed. US - North Carolic CAS 7664-39-3) Listed. Listed. Hydrogen fluoride (CAS 7664-39-3) Calic acid (CAS 16961-83-4) Hydrogen fluoride (CAS 7664-39-3) Calic acid (CAS 16961-83-4) Hydrogen fluoride (CAS 7664-39-3) Listed. US - North Carolic Air Pollutants: Listed substance 1,2-Propanediol (CAS 765-6) Hydrofluorosilicic acid (CAS 16961-83-4) Hydrogen fluoride (CAS 7664-39-3) Calic acid (CAS 16961-83-4) Hydrogen fluoride (CAS 7664-39-3) Calic acid (CAS 16961-83-4) Hydrogen fluoride (CAS 7664-39-3) Calic acid (CAS 16961-83-4) Hydrogen fluoride (CAS 7664-39-3) Listed. US - North Carolina Toxic Air Pollutants: Listed substance 1,2-Propanediol (CAS 7664-39-3) Listed. Hydrogen fluoride (CAS 7664-39-3) Calic acid (CAS 16961-83-4) Hydrogen fluoride (CAS 7664-39-3) Listed. Hydrogen fluoride (CAS 7664-39-3) Listed. Hydrogen fluoride (CAS 7664-39-3) Listed. Hyd | | Delayed Hazard - No Fire Hazard - No Pressure Hazard - No | |
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| Hydrogen fluoride (CAS 7664-39-3) | Hydrogen fluoride (CAS | 7664-39-3) | |

US. Pennsylvania Worker and Community Right-to-Know Law

1,2-Propanediol (CAS 57-55-6) Hydrofluorosilicic acid (CAS 16961-83-4) Hydrogen fluoride (CAS 7664-39-3) Oxalic acid (CAS 144-62-7)

US. Rhode Island RTK

1,2-Propanediol (CAS 57-55-6) Hydrofluorosilicic acid (CAS 16961-83-4) Hydrogen fluoride (CAS 7664-39-3) Oxalic acid (CAS 144-62-7)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Inventory status

| Country(s) or region | Inventory name On | inventory (yes/no)* | |
|--|---|---------------------|--|
| Canada | Domestic Substances List (DSL) | No | |
| Canada | Non-Domestic Substances List (NDSL) | Yes | |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes | |
| *A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) | | | |

16. Other Information

| LEGEND | HEALTH / 3 |
|---|--|
| Severe4Serious3Moderate2Slight1Minimal0 | FLAMMABILITY 0 PHYSICAL HAZARD 0 PERSONAL |
| LI Disclaimer | The data contained in this material safety data sheet was obtained from sources that were technically accurate, reliable, and state of the art when this document was prepared. If data was unavailable to complete certain sections, the absence of that data is identified in this document. Because the supplier cannot know the exact circumstances during actual use of this product, other hazards, exposure scenarios, disposal considerations, and regulations may apply and it is the responsibility of the user to read and understand the product label and this document before use. Do not use the product for purposes other than those stated in Section 1. |
| Issue date Version | Issue date 28-August-2020 01 |

29-August-2020

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| issue date version | | |
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| # Effective date | | |
| Prepared by Other | | |
| information | | |

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