

# Safety Data Sheet

## 1 – PRODUCT IDENTIFICATION

**PRODUCT NAME:** ..... Sour  
**PRODUCT TYPE:** ..... Low pH (Acidic) Laundry Sour & Rust Remover  
**PRODUCT NUMBER:** ..... H1561FMXXX (Last characters vary with the packaging)  
**CONTROL NUMBER:** ..... H1561XXX

**DISTRIBUTED BY:** ..... **4M Cleaning Solutions**  
640 Yankee Lane 8C  
Evansville, IN 47715

**4M Cleaning Solutions**  
1075 NY-82, Suite 16  
Hopewell Junction, NY

**EMERGENCY PHONE:** ..... 1-812-453-4533

## 2 – HAZARDS IDENTIFICATION

**CLASSIFICATION OF SUBSTANCE/MIXTURE:** ....Skin Corrosion (1) Serious Eye Damage (1)  
Corrosive to Metals (1) Acute Toxicity, Oral (5)

**SYMBOLS:** .....



**SIGNAL WORD:**..... DANGER!

**HAZARD STATEMENT:** ..... Causes severe skin burns and eye damage. May be corrosive to metals. May be harmful if swallowed.

### PRECAUTIONARY STATEMENTS:

**PREVENTION:** ..... Do not breathe dusts or mists. Wash hands thoroughly after handling. Do not touch eyes. Wear protective gloves / protective clothing / eye protection / face protection. Keep only in original packaging.

**RESPONSE:** ..... Absorb spillage to prevent material-damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get medical help. IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately. Specific treatment (see First Aid section). IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.

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**STORAGE:**..... Store locked up. Store in a corrosion resistant container with a resistant inner liner.

**DISPOSAL:** ..... Dispose of container and contents in accordance with local regulations.

## 3 – COMPOSITION / INFORMATION ON INGREDIENTS

**SUBSTANCE / MIXTURE:** ..... This product is a mixture.

### HAZARDOUS COMPONENTS:

| INGREDIENT         | C.A.S. NUMBER | CONCENTRATION (%) |
|--------------------|---------------|-------------------|
| Fluorosilicic acid | 16961-83-4    | 10 – 30           |

Exact percentages, chemical names and/or C.A.S. numbers of ingredients are being withheld as trade secret information per OSHA Hazard Communication Standard 29CFR 1910.1200. Remaining components are nonhazardous and/or present at amounts below reportable limits. This information will be disclosed as necessary to authorized individuals.

## 4 – FIRST-AID MEASURES

**BREATHING (INHALATION):** .. Maintain adequate ventilation of work area. If signs of discomfort or irritation occur, remove to fresh air. If burns occur or symptoms persist, get immediate medical attention!

**SWALLOWING (INGESTION):** . DO NOT INDUCE VOMITING! Rinse mouth, then drink a large quantity of water, followed by either milk or a minimum of 2 teaspoons of milk of magnesia. Do not attempt to give liquids to an unconscious person. Get immediate medical attention!

**EYES:** ..... Flush eyes with a large quantity of fresh water for at least 15 minutes. Apply ice compresses and get immediate emergency medical attention by an eye specialist! It may be necessary to bring person to a hospital emergency room.

**SKIN (DERMAL):** ..... Immediately take off all contaminated clothing. Flush from skin with large quantity of fresh water for several minutes. If burns occur or irritation persists, get immediate medical attention! Wash contaminated clothing before reuse.

*\*ATTENTION: This product may contain trace amounts of Hydrofluoric Acid (HF). In the event of significant HF exposure, treat skin [including areas of nose and mouth, if applicable] with 2.5% Calcium Gluconate gel or a cold aqueous solution of 0.13% Benzalkonium Chloride and get emergency medical attention immediately. Do NOT apply either treatment option to the eyes or take internally. Benzalkonium Chloride can be purchased from most drug stores as "Zephiran Chloride" concentrate (Winthrop). To make the solution, dilute "Zephiran Chloride" concentrate to 1 ounce in 1 gallon of water (1:128).*

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## 5 – FIRE-FIGHTING MEASURES

**FLASHPOINT:**..... This product is non-flammable.  
**EXTINGUISHING MEDIA:** ..... Use extinguishing media suitable for materials already burning.  
**SPECIAL FIRE FIGHTING PROCEDURES:**.....Firefighters working in areas where this product is present should be equipped with an approved, fully enclosed SCBA.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** .....None known.

## 6 – ACCIDENTAL RELEASE MEASURES

**SPILL PROCEDURES:**..... Dike and absorb spillage to prevent release into streams or sewer systems, as well as material-damage. Consult local, state and federal authorities.  
**WASTE DISPOSAL:** ..... As recommended by local, state and federal authorities.

## 7 – HANDLING and STORAGE

**STORAGE:**..... Store in a cool, well-ventilated area. Avoid overheating or freezing. Store locked up. Keep in original packaging or in a corrosion resistant container. Do NOT store this product in an unmarked container.  
**HANDLING:**..... Maintain adequate ventilation of work area. Wear eye, face and skin protection. Do NOT breathe product mist and spray. Do NOT transfer this product to an unmarked container. Spilled material is slippery. Keep out of reach of children.

*\*ATTENTION: Do NOT reuse empty container. Empty containers retain vapor and product residue, which can be dangerous.*

## 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**RESPIRATORY PROTECTION:**Not usually needed in well-ventilated areas. If needed, use a NIOSH approved respirator.  
**PROTECTIVE CLOTHING:**..... Neoprene, butyl or doubled-nitrile gloves, chemical splash goggles, protective outerwear and boots.  
**ADDITIONAL MEASURES:**..... Selection of the appropriate PPE should be based on a safety evaluation of the workplace—relative to the task(s) to be performed and the performance characteristics of the PPE. Under normal use according to label instructions, wear safety glasses with side shields (or goggles), neoprene or doubled-nitrile gloves, and full-coverage clothing. Face shields, chemical resistant coverings, and a full-face respirator can be used for improved protection and safety, when prolonged or repeated exposure to chemicals is likely. Keep out of reach of children.

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**CONTROL PARAMETERS:** ..... If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

| INGREDIENT                           | C.A.S. NUMBER              | OSHA PEL*             |
|--------------------------------------|----------------------------|-----------------------|
| Fluorosilicic acid<br>(as Fluorides) | 16961-83-4<br>(16984-48-8) | 2.5 mg/m <sup>3</sup> |

\* When OSHA 8-hour TWA; STEL (ST); and Ceiling (C) PEL values are not established, NIOSH REL; ACGIH TLV; and AIHA WEEL values will be shown in that order, and indicated as such.

## 9 – PHYSICAL / CHEMICAL PROPERTIES

**APPEARANCE & ODOR:** ..... Colorless, transparent liquid with no significant odor.  
**ODOR THRESHOLD:** ..... N/A  
**pH:** ..... Less than 2.0  
**MELTING POINT:** ..... N/A  
**FREEZING POINT:** ..... N/A  
**BOILING POINT:**..... 210 degrees F.  
**BOILING POINT RANGE:** ..... N/A  
**FLASHPOINT:**..... This product is non-flammable.  
**EVAPORATION RATE:** ..... N/A  
**FLAMMABILITY (solid/gas):** ... N/A  
**EXPLOSION LIMITS:**..... N/A  
**VAPOR PRESSURE:** ..... N/A  
**SPECIFIC GRAVITY:** ..... 1.10  
**SOLUBILITY IN WATER:** ..... Completely soluble.  
**PARTITION COEFFICIENT:** ..... N/A  
**AUTO-IGNITION TEMPERATURE:**.....N/A  
**DECOMPOSITION TEMPERATURE:** .....N/A  
**VISCOSITY:** ..... Water thin.

## 10 – STABILITY and REACTIVITY

**STABILITY:** ..... Stable under normal conditions.  
**INCOMPATIBILITY:** ..... Do not mix with caustics or other chemicals. Incompatible with chlorites, combustible solids, organic peroxides, ferrous metals, aluminum, zinc, tin and brass. Avoid exposing concentrated product to extreme temperatures and direct sunlight.  
**HAZARDOUS DECOMPOSITION:**.....Fluorine gas and/or fluorine compound fumes, silicon oxides.  
**HAZARDOUS POLYMERIZATION:** .....This product is not known to polymerize.

## 11 – TOXICOLOGICAL INFORMATION

**ROUTE(S) OF ENTRY:** ..... Absorption through eyes and skin. Ingestion. Inhalation.  
**LISTED CARCINOGEN:** ..... There are no chemicals that comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or

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potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

**MEDICAL CONDITION AGGRAVATED:** .....May aggravate preexisting dermatitis.  
**INHALATION:** ..... Inhaling significant amounts of undiluted product can cause irritation, burns or other serious damage to the mouth, nose and respiratory tract. Prolonged exposure may lead to edema and other breathing disorders.  
**INGESTION:** ..... Undiluted product may be harmful to health; and can cause irritation, burns or other damage to the mouth, esophagus and stomach, if ingested.  
**EYES:** ..... Undiluted product can cause serious irritation, redness, burns, blindness or other permanent damage if not immediately flushed from eyes.  
**SKIN (DERMAL):** ..... Undiluted product can cause severe irritation, redness and burns if not immediately flushed from skin.  
**ACUTE TOXICITY\* (ORAL):** .....3,620.56 mg/kg  
**ACUTE TOXICITY\* (DERMAL):** .....>5,000 mg/kg  
**ACUTE TOXICITY\* (INHALATION):** .....>20,000 ppm V (Gas), >20 mg/l (Vapor), >5 mg/l (Dust)

*\*Determined using the additivity formula for mixtures (GHS Purple Book, 3.1.3.6).*

## 12 – ECOLOGICAL INFORMATION

**ENVIRONMENTAL FATE AND DISTRIBUTION:** N/A

## 13 – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** ..... As recommended by local, state and federal authorities.

## 14 – TRANSPORTATION INFORMATION

**U.S. DOT:**

**PROPER SHIPPING NAME:** .... Fluorosilicic acid solution  
**HAZARD CLASS:** ..... 8  
**UN/NA NUMBER:** ..... UN 1778  
**PACKING GROUP:** ..... II

**IMDG CODE:**

**PROPER SHIPPING NAME:** .... FLUOROSILICIC ACID SOLUTION  
**HAZARD CLASS:** ..... 8  
**UN NUMBER:** ..... UN 1778  
**PACKING GROUP:** ..... II  
**MARINE POLLUTANT:** ..... No

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**IATA CODE:**  
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**PACKING GROUP:**..... II

## 15 – REGULATIONS

Contents of this SDS comply with OSHA Hazard Communication Standard 29CFR 1910.1200.

**CALIFORNIA PROPOSITION 65:** .....This product does not contain any chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm.

## 16 – OTHER INFORMATION

**NFPA:**  
**HEALTH:** ..... 3  
**FLAMMABILITY:**..... 0  
**REACTIVITY:** ..... 1  
**OTHER:** ..... Acid

**ADDITIONAL:** ..... The information contained in this SDS is based on the data available to us from sources we believe to be reliable. No warranty or guaranty expressed or implied is made regarding the accuracy of this data or the results obtained from the reliance on this data. The manufacturer assumes no responsibility for injury from the use of this product. Be-read this product safety information and pass it on to all persons who may be exposed to this product. Federal law requires it. This product and/or all of its components are either included on or exempt from the TSCA Inventory of Chemical Substances.

**REVISION DATE:**..... 09/29/2025