SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: SODIUM FLUOROSILICATE
Product Identification Number: MIF-1

Other Name(s): Sodium silicofluoride; Sodium Hexafluorosilicate

Recommended use of the chemical and restrictions on use: Water Fluoridation, wood and leather preservative, etchant for opalescent glass.

Supplier: KC Industries, LLC
Street Address: 2420 Old Highway 60
Mulberry, FL 33860

Telephone Number: 863-425-1195
Fax: 863-425-5003
Emergency Telephone Number: 863-425-1195 CHEMTREC 800-424-9300

2. HAZARD IDENTIFICATION

Emergency Overview

GHS Classifications
Acute Tox. 3 (Oral) H301
Eye Irrit. 2A H319
STOT SE 2 H371
STOT RE 1 H372

GHS Label Elements, Including Precautionary Statements

Pictogram

SIGNAL WORD: DANGER

Hazard Statement(s)
H301- Toxic if swallowed
H319- Causes serious eye irritation
H371- May cause damage to organs (heart)
H372- Causes damage to organs (dental/bone fluorosis) through prolonged or repeated exposure

Precautionary Statement(s)
P260- Do not breathe dust
P264- Wash hands, forearms, and exposed areas thoroughly after handling
P270- Do not eat, drink or smoke when using this product
P280- Wear protective gloves, eye protection, protective clothing
P301+310- IF SWALLOWED: Immediately call a POISON CENTER or doctor
P305+310+338- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P314- Get medical advice and attention if you feel unwell
P330- If swallowed, rinse mouth
P337+P313- If eye irritation persists: Get medical advice/attention
P337-If eye irritation persists: Get medical advice/attention
P405- Store locked up
P501- Dispose of contents/container according to local, regional, national, and international regulations
Other Hazards
No additional information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
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<tr>
<th>Components</th>
<th>CAS#</th>
<th>Percent</th>
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<tr>
<td>Sodium Silicofluoride</td>
<td>16893-85-9</td>
<td>98%</td>
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4. FIRST AID MEASURES

Inhalation: Remove exposed person to fresh air. If breathing is difficult, oxygen may be administered. If breathing has stopped, artificial respiration should be started immediately. Seek medical attention.

Eyes: Flush with tepid water for at least 20 minutes holding the eyelids wide open. Seek medical attention.

Skin: Wash thoroughly with mild soap and water. Seek medical attention if irritation or chemical burns develop. Remove any contaminated clothing and launder thoroughly before reuse.

Ingestion: Give water to drink. Induce vomiting. If swallowed, seek medical attention immediately and show this container or label.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Small: Dry chemical, carbon dioxide, water spray or foam. Large: Water spray, fog or alcohol foam.

Special Fire Fighting Procedures: Non-flammable. Negligible fire hazard when exposed to heat or flame. Move containers from fire area if it can be done without risk. Do not scatter material. Use water spray to reduce vapors.

Fire and Explosion Hazards: None reported.

Hazardous Combustion Products: Thermal decomposition may release Fluoride and sodium oxides.

Protective Measure in Fire: Avoid contact; toxic waste. Fight fire from a safe distance. Prevent runoff from entering natural waterways. Stay upwind and restrict access to area.

6. ACCIDENTAL RELEASE MEASURES
7. HANDLING AND STORAGE

Usage Precautions: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Storage Precautions: Store in dry, cool, well-ventilated area. Keep away from food, drink, and animal feeding stuffs.

Handling Precautions: Do not breathe dust. Avoid all contact with this substance. Wash hands and other exposed areas plentifully with water after handling. Remove contaminated clothing and shoes. Wash clothing before re-using. Packages, even those that have been emptied, will retain product residue. Always obey safety warning and handle empty packages as if they were full.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protective Equipment: Use adequate ventilation to meet exposure limits. Where exposure limits may be exceeded use OSHA approved dust mask.

Process Conditions: Exposure Limits: 2.5 mg/m3 TLV. 2.5 mg/m3 OSHA PEL.

Respirators: Use approved dust mask if dust are generated when handling this material. If exposures may exceed the limits, as a minimum, use a NIOSH approved ½ face-piece respirator with cartridges approved for acid gases, hydrogen fluoride.

Protective Gloves: Polymeric protective gloves are recommended to prevent possible irritation.

Eye Protection: Chemical protective goggles and full-face shield are recommended where there is the possibility of eye contact with the product.

Skin Protection: PVC, neoprene, or similar materials are recommended. Polymeric coated apron or other body covering is recommended where regular work clothing may become contaminated with the product.

Other Protection: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hygienic Work Practices: Wash thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): White Powder
Odor: None

Odor Threshold: No data available

pH: 3.5-4.0 (Saturated Solution)

Melting Point/freezing point: Decomposes at 932 degrees F (500 degrees C)

Initial boiling Point and boiling range: No data available

Flash Point: N/A

Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits: No data available

Vapor Density (Air =1): N/A

Vapor Pressure: N/A

Relative density: No data available

% Solubility (H2O): 0.65g/100g at 63 degrees F.

Octanol/Water Partition Coefficient: N/A

Auto-ignition temperature: No data available

Decomposition temperature: No data available

Viscosity: No data available

Specific Gravity/Bulk Density: 85/90 Lb/ft3

10. STABILITY AND REACTIVITY

Stability & Polymerization: Product is stable. Hazardous polymerization will not occur.

Hazardous Decomp Products: Temperatures above 500C, such as fires, will cause decomposition and formation of Hydrofluoric Acid and Fluorine.

Conditions to Avoid: Excessive dust generation.

Special Sensitivity: None that are known.

11. TOXICOLOGICAL INFORMATION

Toxic Dose LD 50: The acute lethal oral toxicity for rats is approximately 125 mg per kilogram of body weight. This is equivalent to approximately 6.5 grams for the average human.

Toxicological Info: No information found.
12. ECOLOGICAL INFORMATION

Not Determined

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of in accordance with Federal, State, and Local Regulations. Contact CHEMTREC 1-800-424-9300 for 24 hour emergency assistance. Hazardous waste number NOT LISTED.

14. TRANSPORTATION INFORMATION

DOT Proper Shipping Name: Sodium Fluorosilicate
Hazard Class: 6.1
UN Number: UN2674
Packing Group: PGIII
IATA/IMDG Regulations
Proper Shipping Name: Sodium Fluorosilicate
Hazard Class: 6.1
UN Number: UN2674
Packing Group: PGIII
IMDG EMS: F-A, S-A

15. REGULATORY INFORMATION

SARA Title III Information: Not Listed. No RQ
State Regulatory Information: New Jersey “Right to Know” Laws: Listed.
16. MISC. INFORMATION

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Revision Comments: Revised May 2015 for GHS standards.

Full text of H-phrases:

- **Acute Tox. 3 (Oral)**: Acute toxicity (oral) Category 3
- **Eye Irrit. 2A**: Serious eye damage/eye irritation. Category 2A
- **STOT RE 1**: Specific target organ toxicity (repeated exposure) Category 1
- **STOT SE 2**: Specific target organ toxicity (single exposure) Category 2
- **STOR SE 3**: Specific target organ toxicity (single exposure) Category 3
- **H301**: Toxic if swallowed
- **H319**: Causes serious eye irritation
- **H335**: May cause respiratory irritation
- **H371**: May cause damage to organs
- **H372**: Caused damage to organs through prolonged or repeated exposure

17. DISCLAIMER

The information contained in the Safety Data Sheet relates only to the specific material(s) described herein and does not relate to use in combination with any other material or substance or in any process. We believe that the information contained herein is current as of the date of issue of this Safety Data Sheet. Because the use of this information and these opinions and the conditions of use of this product are not within the control of KC Industries, LLC, it is the user’s obligation to determine the conditions of safe use of the product.

Users of this product should study this Safety Data Sheet and become aware of the product hazards and safety information before using this product. Users should also notify their employees, agents, and contractors regarding information contained in this Safety Data Sheet and any product hazards and safety information in order to provide safe use of this product.