

Material Safety Data Sheet

Provided by:

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SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name HYDROFLUOROSILICIC ACID
Synonyms HFS ACID, FLUOSILICIC ACID, HEXAFLUOSILICIC ACID
Chemical Name HYDROFLUOROSILICIC ACID

Emergency phone: 281-457-4888 **Date of Issue:** 10/01/00
Chemtrec: 800-424-9300 **Revised Date:** N/A

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	PERCENT	CAS NO.
HYDROFLUOROSILICIC ACID	20% - 27%	16961-83-4

SECTION 3 - HAZARDS IDENTIFICATION

Potential Health Effects

ACGIH - TLV: 2.5 mg/cu (as F)
Eye Contact CONTACT MAY CAUSE EYE IRRITATION AND BURNS.
Skin Contact CONTACT MAY CAUSE SEVERE SKIN IRRITATION AND POSSIBLE BURNS.
Ingestion CORROSIVE AND MAY CAUSE SEVERE AND PERMANENT DAMAGE TO MOUTH, THROAT AND STOMACH.
Inhalation MAY CAUSE SEVERE RESPIRATORY TRACT IRRITATION.
Carcinogenicity: *NTP* NO *IARC* NO *OSHA* NO

SECTION 4 - FIRST AID PROCEDURES

Eye Contact: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.
Skin Contact: IMMEDIATELY REMOVE CONTAMINATED CLOTHING OR SHOES, WIPE EXCESS FROM SKIN AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. USE SOAP IF AVAILABLE OR FOLLOW BY WASHING WITH SOAP AND WATER. DO NOT REUSE CLOTHING UNTIL THOROUGHLY CLEANED. GET MEDICAL ATTENTION.
Inhalation: REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.
Ingestion: DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. IF CONSCIOUS, GIVE LARGE QUANTITIES OF WATER OR MILK AND GET IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON!

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point NOT APPLICABLE
Extinguishing Media USE MEDIA APPROPRIATE FOR SURROUNDING AREA.

Special Firefighting Procedures/Precuations

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. STAY UPWIND AND KEEP OUT OF LOW AREAS. FLAMMABLE AND POTENTIALLY EXPLOSIVE HYDROGEN GAS IS GENERATED FROM REACTION WITH MOST METALS.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

For Spill: EVACUATE AREA PERSONNEL. CONTAIN MATERIAL WITHIN DIKE. COLLECT IN CONTAINERS FOR DISPOSAL. KEEP OUT OF SEWERS AND WATERWAYS.

SECTION 7 - HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area, away from heat and incompatible materials. Protect containers from physical damage.
DO NOT STORE IN GLASS OR STONWARE. USE NON-SPARKING TOOLS. KEEP AWAY FROM INCOMPATIBLE MATERIALS.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

- Respiratory Protection** USE A NIOSH/MSHA APPROVED RESPIRATOR FOLLOWING MANUFACTURER'S RECOMMENDATIONS.
- Ventilation** LOCAL AND MECHANICAL RECOMMENDED.
- Protective Gloves** CHEMICAL IMPERVIOUS GLOVES.
- Eye/Face Protection** CHEMICAL SAFETY GOGGLES AND/OR FULL-FACE SHIELD.
- Other Protection** CHEMICAL RESISTANT CLOTHING SUCH AS COVERALLS/APRON, BOOTS, ETC.
- Work Practices** USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING AND WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (°F): 222	Vapor Pressure (mmHg): 24 (@ 77 F)
Freezing Point (°F): NOT ESTABLISHED	Vapor Density (Air=1): NOT ESTABLISHED.
Solubility (H2O): COMPLETE	Specific Gravity (H2O=1): 1.25
pH 1.2	Evaporation Rate: NOT ESTABLISHED.
Appearance/Odor: WATER-WHITE TO STRAW YELLOW LIQUID WITH PUNGENT ODOR.	

SECTION 10 - STABILITY AND REACTIVITY

- Chemical Stability:** YES
- Incompatible Materials** METAL, GLASS, STONWARE, ALKALI AND STRONG CONCENTRATED ACIDS.
- Decomposition Products** WHEN HEATED, EMITS HIGHLY TOXIC & CORROSIVE FUMES OF HYDROGEN FLUORIDE AND HYDROGEN GAS.
- Hazardous Polymerization:** WILL NOT OCCUR.

SECTION 11 - TOXICITY INFORMATION

LD50 ORAL (guinea pig) = 200 mg/kg

SECTION 12 - ECOLOGICAL INFORMATION

NO DATA AVAILABLE.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSE OF WASTE MATERIALS ACCORDING TO ALL FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

USA DOT Shipping Name: FLUOROSILICIC ACID

Hazard Class: 8

UN/NA Number: UN1778

Packing Group: II

Subsidiary Hazard

Marine Pollutant: NO

SECTION 15 - REGULATORY INFORMATION

CERCLA RQ (lbs): 100 (HF)

SARA Title III Section 312:

Acute **Chronic** **Flammable** **Sudden Release of Pressure** **Reactive**

SARA Title III Section 313: No

SARA Extremely Hazardous Substance: No

HMIS HAZARD RATING

Health: 3 **Fire:** 0 **Reactivity:** 0

0 - Least 1 - Slight 2 - Moderate 3 - High 4 - Extreme

SECTION 16 - OTHER INFORMATION

EPA Pesticide Registration Number: NOT APPLICABLE

NSF Maximum Use Level for Potable Water (Standard 60): NOT APPLICABLE

TSCA (Toxic Substance Control Act), 40 CFR 710:

Sources of the raw materials used in this mixture assure that all chemical ingredients present are in compliance with Section 8(b) Chemical Substance Inventory, or are otherwise in compliance with TSCA.

DISCLAIMER

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