

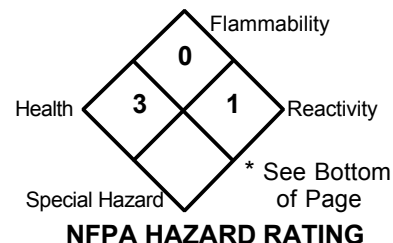
MATERIAL SAFETY DATA SHEET

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Distributed by:
HILLYARD, INC.

302 N. Fourth St.
St. Joseph, Missouri 64502

Health 3
Flammability 0
Reactivity 1
Personal Protection X
HMIS Rating System*



Product Name: **Neutra**

24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC)

Revised: 9/2/2005 Imt
Supersedes: 11/2/2001

I. IDENTIFICATION

Chemical Name And Synonyms:

Hydrofluorosilicic Acid, Fluosilicic Acid, Hexafluosilicic Acid

DOT Shipping Name

Fluorosilicic Acid, Solution

Chemical Family:

Acid

DOT Hazard Class & I.D. Number

Corrosive Material UN1778

PG
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II. HAZARDOUS INGREDIENTS

Component	CAS NO.	%	TLV	PEL	Toxic	Hazard
Hydrofluorosilicic Acid	16961-83-4	23-27	2.5 MG/M3	2.5 MG/M3	NA	Corrosive

**Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable

III. PHYSICAL DATA

Boiling Point: above 222° F.	Form: Liquid	pH, 1% Soln.: 1.2
Specific Gravity: 1.234	Solubility In Water: Complete	
Appearance: Clear, reddish-orange liquid	Odor: Sharp, pungent odor	

IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Not Applicable

Extinguishing Media: This material is not combustible. Use extinguishing media appropriate for surrounding fire.

Special Fire

Fighting Procedures: Although this product is not combustible, if a fire occurs in the near vicinity good fire fighting practice dictates the use of self-contained breathing apparatus and other protective gear.

Unusual Fire And

Explosion Hazards: Extinguish all nearby sources of ignition since flammable hydrogen gas will be liberated from contact with some metals. Keep containers cool with water as decomposition will occur above 227°F and produce toxic and corrosive fumes of fluorides.

V. HEALTH HAZARD DATA

Carcinogenic: The raw materials used in this product are not considered to be a carcinogen by ACGIH and OSHA.

Effects Of Over-exposure: Corrosive. Burns the eyes, skin and mucous membranes causing burns, tissue destruction, shock, and pulmonary edema. Effects may be delayed. May cause fluorosis.

Emergency And First

Aid Procedures: EYES: Immediately flush with water for 15 minutes, lifting the upper and lower eyelids occasionally. GET IMMEDIATE MEDICAL ATTENTION.

SKIN: Immediately flush with water for at least 15-20 minutes while removing contaminated clothing and shoes, paying particular attention to skin under the nails. Always GET IMMEDIATE MEDICAL ATTENTION no matter how minor skin burns appear. Wash contaminated clothing before reuse, but destroy contaminated shoes.

INGESTION: Do not induce vomiting. If conscious, give lots of water or milk. GET IMMEDIATE MEDICAL ATTENTION. Do not give anything by mouth to an unconscious person.

INHALATION: Remove exposed person to an uncontaminated area immediately. If breathing has stopped, start artificial respiration at once. Oxygen should be provided for an exposed person (but only by an authorized person). Exposed person should be examined by a physician.

NOTES TO PHYSICIAN: Beware of late onset of pulmonary edema for up to 48 hours. Treat severe burns similar to hydrofluoric acid exposure.

* NFPA Degree or Hazard: 4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant.

Continued On Back

A. Safety Glasses B. Safety Glasses, Gloves, Apron C. Safety Glasses, Gloves, Apron D. Face Shield, Gloves, Apron E. Safety Glasses, Gloves, Apron, Dust Respirator F. Safety Glasses, Gloves, Apron, Dust Respirator G. Safety Glasses, Gloves, Vapor Respirator H. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and Dust Respirator J. Splash Goggles, Gloves, Apron, Vapor and Dust Respirator K. Air Line, Hood or Mask, Gloves, Full Suit, Boots X. Ask your supervisor for guidance.

VI. REACTIVITY DATA

Stability - Unstable: **Stable: X**

Conditions To Avoid: Heat, sparks and open flames.

Incompatibility: Alkalies or oxidizing materials (ie. hypochlorites), cyanides, sulfides, or combustible materials. Also, glass, metals and stoneware.
(Materials To Avoid)

Hazardous

Decomposition Products: When heated to decomposition (227°F), it emits highly toxic and corrosive fumes of hydrofluoric acid, silicon tetrafluoride and hydrogen gas.

VII. SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Wear eye protection and appropriate personal protection.

For small spills or drips, mop or wipe up and dispose of in DOT - approved waste containers. Do not allow to enter sewers or surface water.

Waste Disposal Method: Dispose according to federal, state and local regulations.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: If use conditions generate vapors or mists, wear a NIOSH approved respirator appropriate for those emission levels.

Ventilation: Sufficient to reduce vapor or mists below permissible TLV levels.

Protective Gloves: Rubber gloves with gauntlets.

Eye Protection: Chemical goggles.

Protective Clothing: If contact with large amounts is possible wear acid resistant slicker suit with rubber apron, rubber boots with pants outside.

IX. SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing:

Store in cool, dry, well ventilated place away from sources of ignition. Do not store in glass or stoneware. Use non-sparking tools. Keep container tightly closed when not in use. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Wear all protective equipment and clothing when handling.

Other Precautions: Eyewash and safety shower facilities should be available where product is stored or handled. Contact lenses should not be worn when handling chemical.

X. REVISED INFORMATION

MSDS Status: NFPA/HMIS Rating Change