MATERIAL SAFETY DATA SHEET For R&D use only. Not for drug, household or other uses. Click http://www.lookchem.com/cas-169/16961-83-4.html for suppliers of this product.

Μ **RTECS:** VV8225000 Code:

USE NIOSH/MSHA APPROVED RESPIRATOR FOR VAPORS/MIST IF ABOVE TLV/PEL.

AVOID CONTACT WITH EYES AND SKIN; DO NOT BREATHE VAPORS MIST.

ACUTE: CORROSIVE TO ALL BODY TISSUES; SEVERE IRRITATION OF EYES AND SKIN; SKIN & EYE ULCERATION; BLISTERING OF

EYE:FLUSH W/COPIOUS AMOUNT OF WATER; SKIN: WASH WITH SOAP & WATER; INHALE: REMOVE TO FRESH AIR, GIVE ARTIFICIAL

COVER WITH SODIUM CARBONATE OR AN EQUAL MIXTURE OF SODA ASH & SLAKED LIME. AFTER MIXING, ADD WATER IF NECESSARY TO

ADD SLOWLY TO A LARGE AMT OF SODA ASH & SLAKED LIME BY STIRRING. DISCHARGE SOLN WITH LARGE OTY WATER INTO A SINK

RESPIRATION IF NEEDED; ING: GIVE LARGE AMOUNTS OF WATER OR MILK.DO NOT INDUCE VOMITING.GET MEDI CAL ATTN.

SKIN; IRRITATING TO RESPIRATORY AND G.I. TRACTS; COUGHING, HEADACHE, NAUSEA, SHOCK PULMONARY EDEMA.

CORROSIVE.CAUSE BURNING OR ULCERATION; ABDOMINAL PAIN, VOMITING, SHOCK, MAYBE DEATH.

LINED WITH PROTECTIVE MATTING & FILLED WITH COARSE CHIPPED MARBLE.

Fire and Explosion Hazard Information

KEEP IN TIGHTLY CLOSED CONTAINERS IN A COOL PLACE. LOOSEN CLOSURE CAUTIOUSLY

PROVIDE MECHAN(GEN/LOCAL EXHAUST) VENT TO MAINTN

Equipment PROTECTIVE CLOTHING; EYE-WASH.

Code:

Control Measures

Respiratory Protection:

Ventilation:

Protective Gloves: RUBBER/NEOPRENE

Eye Protection:

NΡ

N/K

YES

Skin: YES

YES

N/P

IARC: N/P

OSHA: N/P

N/K 2

First Aid:

N/P

N/P

NONE

N/K 3

N/K

N/K

HCC: C1

N/R

NRC/State LIC No:

Boiling Point:

Melt/Freeze Pt:

M.P/F.P Text:

Decomp Temp:

Decomp Text:

Vapor Pres:

Vapor Density:

Spec Gravity:

PH: 1.0

Viscosity: N/P

COMPLETE

N/K

N/P

YES

VOC Pounds/Gallon:

VOC Grams/Liter:

Solubility in Water:

Corrosion Rate:

Stability Indicator:

Materials To Avoid:

Information:N/P

Information:N/P

Appearance and Odor:

Percent Volatiles by Volume:

Reactivity Data

Stability Condition To Avoid:

Hazardous Decomposition Products: TOXIC CORROSIVE FUMES OF FLUORIDES.

Hazardous Polymerization Indicator:

Conditions To Avoid Polymerization:

Toxicological Information

Regulatory Information

Sara Title III Information: N/P

Federal Regulatory Information: N/P

State Regulatory Information: N/P

Other Information

www.lookchem.com

Other Information:N/P

MSDS Transport Information

For R&D use only. Not for drug, household or other uses.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any

guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from

handling or from contact with the above product. See reverse side of invoice or packing slip for additional

WARRANTY

terms and conditions of sale.

Evaporation Rate & Reference:

WATER WHITE TO STRAW COLORED.LIQUID, PUNGENT ODOR

TEMP ABOVE 90C:TO THIN, ADD ACID TO WATER, NEVER WATER TO ACID

STRONG ALKALIES, CHLORITES, PROXIDES, ATTACH GLASS STONEWARE

Volatile Org Content %:

218

N/K

N/A

B.P. Text: 233F/105C

Net Prop WT For Ammo:

Lower Limits:

Upper Limits:

Extinguishing Media:

Fire Fighting Procedures:

Unusual Fire/Explosion Hazard:

USE AGENT SUITABLE FOR SURROUNDING FIRE.

Physical/Chemical Properties

WEAR CHEMICAL PROTECTIVE SUIT WITH SELF CONTD BRTHG APP.

EMITS TOXIC FUMES WHEN HEATED OR REACTING WITH WATER. FUMES EMITTED ARE ALSO CORROSIVE

Flash Point:

Flash Point Text:

Autoignition Temp:

Autoignition Temp Text:

Ingestion:

PROTECTIVE SHIELD

Work Hygienic Practices:

LD50LC50Mixture:

Other Protective Equipment:

Supplemental Safety and Health:

Health Hazards Data

Route Of Entry Inds - Inhalation:

Carcinogenicity Inds - NTP:

Health Hazards Acute And Chronic:

Explanation Of Carcinogenicity:

Spill Release Procedures:

Waste Disposal Methods:

Handling And Storage Precautions:

FORM A SLURRY.

Neutralizing Agent:

Other Precautions:

Flash Point Method:

Signs And Symptions Of Overexposure:

Medical Cond Aggravated By Exposure: PRE-EXISTING CONDITIONS MAY BE WORSEN.

CHRONIC: FLUORISIS, CAN LEAD TO COMA, OR DEATH.

Cas: 16961-83-4 Code:

Composition/Information on Ingredient

Μ

Name: HYDROFLUOSILICIC ACID **Other REC Limits:** NΡ **OSHA PEL:** 2.5 MM/CUM AS (F) Code:

Μ

OSHA STEL:

Code: **ACGIH TLV:**

2.5 MM/CUM AS (F) Code:

Μ **ACGIHSTEL:**