



Revised Date: March 25, 2004

SECTION II. HAZARDOUS INGREDIENTS

Hazardous Components:	CAS No.	% Approx.	OSHA PEL	ACGIH TLV	NTP	IARC	OSHA 1910(Z)	EHs	SARA 313	LD50	LC50
Hydrofluoric Acid	7664-39-3	1-10	2.5 mg/m³	2.5 mg/m³	N/L	N/L	N/R	Yes	Listed	Inhalation rat 1276 ppm/H	Guinea Pig 8 mg/m³
Sulfuric Acid	7664-93-9	11-30	1 mg/cum	1 mg/cum	N/L	N/L	N/R	No	Listed	Oral rat 2140 mg/kg	

N/D = Not determined
N/A = Not applicable

Boiling Point:	N/D	Specific Gravity: (H ₂ O = 1)	1.024
Vapor Pressure (mm Hg.):	N/D	pH:	N/D
Vapor Density:	N/D	Evaporation Rate: (Butyl Acetate =1)	N/D
Solubility in Water:	Soluble in water	Melting Point:	N/D
Appearance and Odor: Thin clear liquid with low vinegary odor.			

N/D = Not determined
N/A = Not applicable

Flash Point: (Method Used)	None	Auto Ignition Temperature:	N/D	Flammability Limits:	N/D	LEL	UEL N/D
Extinguishing Media:							
Regular Foam, Carbon Dioxide or Dry Chemical.							
Fire Fighting Procedures:							
Use self-contained breathing apparatus							
Unusual Fire and Explosion Hazards:	May produce hazardous fumes or hazardous decomposition corrosive. Readily attacks some metals (i.e. aluminum, magnesium and zinc) to liberate flammable/explosive hydrogen gas. Dilution with water liberates large amounts of heat and may cause violent boiling and spattering.						

SECTION V. REACTIVITY DATA

Stable:	<input checked="" type="checkbox"/>	Unstable:		Condition to Avoid:	Avoid contact with strong oxidizing agents
Hazardous Decomposition or By-products: Product will boil away as Hydrogen Fluoride gas and water.					
Incompatibility (Materials to Avoid): Glass, concrete, carbonates, sulfides, cyanides, alkalis, common metals, leather, rubber and many organics					
Polymerization Hazard:		May Occur		Conditions to Avoid:	
		Will Not Occur <input checked="" type="checkbox"/>			
				None	

SECTION VI. HEALTH HAZARD DATA

Routes of Entry:	Inhalation: Yes	Skin: Yes	Ingestion: Yes
Health Hazards: (Acute and Chronic)	1) Eye: Can cause severe irritation, redness, tearing, blurred vision, corneal burns or conjunctivitis. 2) Skin: Can cause severe irritation and burns which may not be immediately painful or visible. 3) Breathing: Can cause irritation/burns in the nose, throat, respiratory system, nausea and headaches. May be fatal. 4) Ingestion: Can cause severe mouth, throat and stomach burns, nausea, vomiting and diarrhea. May be fatal.		
Additional Carcinogenicity Information (If Any):	None Known		
Signs and Symptoms of Exposure:	Irritation and burns to mouth, throat, lungs, stomach, cornea and skin		
Medical Conditions That May Be Aggravated By Exposure:	Poor General Health		
Emergency and First Aid Procedures:	1) Eyes: Flush with water for at least 15 minutes, keeping eyelids apart and away from eyeballs during irrigation. 2) Ingestion: Do not induce vomiting. Drink large amounts of water to dilute. 3) Inhalation: Remove to fresh air. If breathing has stopped, start artificial respiration at once. 4) Skin: Remove all contaminated clothing. Wash with large amounts of water for a minimum of 15 minutes. (CALL DOCTOR IMMEDIATELY FOR 1, 2, 3 and 4 even if you suspect contact with product.)		

SECTION VII. EMERGENCY RESPONSE PROCEDURES

Container Size:	<input checked="" type="checkbox"/> 5 Gal. or Less	<input checked="" type="checkbox"/> 55 Gal. or Less	<input type="checkbox"/> Bulk	<input type="checkbox"/> Other: _____
-----------------	--	---	-------------------------------	---------------------------------------

Steps to be Taken If Material Is Released or Spilled

STEP 1. Human Health Protection: Wear full protective clothing Avoid using in closed area	STEP 2. Containment and Control: Neutralize with alkali such as soda ash or lime Absorb with sand or absorbent material
STEP 3. Decontamination: Prevent runoff to sewer or surface water	STEP 4. Hazardous Waste Packaging/Shipping Requirements: Follow Local, State and Federal Regulations
Waste Disposal Method: In accordance with Local, State and Federal Regulations	

SECTION VIII. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing:	Keep product closed - Store away from heat or flame-Keep out of reach of children
Other Precautions:	Any contact with hydrogen fluoride or hydrofluoric acid solution requires immediate medical attention

SECTION IX. CONTROL MEASURES

N/D = Not determined
N/A = Not applicable

Respiratory Protection: Yes, NIOSH/MSHA approved respiratory equipment			
Ventilation	Local Exhaust:	N/A	Special: Use only in well ventilated area
	Mechanical:	Preferred	Other: N/A
Protective Gloves: Impervious Neoprene Rubber Gloves		Eye Protection: Splash-proof safety goggles	
Other Protective Clothing or Equipment: Impervious full protective clothing, rubber boots, etc.. Respiratory equipment			
Work/Hygienic Practices: No contact lens, eating, drinking or smoking. Wash up after use.			

Disclaimer of Liability

The information contained herein is based on data considered accurate. However, the information is provided without any warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility for personal injury or property damage to vendees, users or third parties caused by the material. We also do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.