



MATERIAL SAFETY DATA SHEET Printed: 02/06/2004

I Chemical Product and Company Indentification Information/ Information on Ingredients		Emergency (800)831-9889 Medical(Collect) (303)592-1024 Chemtree (800)424-9300 Date 04/30/2003 posure Limits V 2.5; PEL 2.5 (AS F) Units MG/M3
III Haz ards Identific ation	A CORROSIVE TO EYES AND SKIN. MAY BE FATAL Signs U and T Symptoms C of H Exposure O N I C Flammability O Reactivity 0 PE 0 N 0 H Exposure O N I C C HMIS: Health 3 Flammability 0 Reactivity 0 Conditions Aggravated DERMATITIS, RESPIRATORY CONDITIONS. Carcinogen Info BY IARC, NTP, OSHA, ACGIH Target Organs or System Routes of Exposure: Inhalation Skin Ingestion	YEETH. Personal Protection D NTP IARC OSHA
IV	Routes of Exposure: Inhalation Skin Ingestion Ingestion Inhalation IF INHALED, REMOVE TO FRESH AIR. GET MEDICAL ATTENTION. Eyes FLUSH THOROUGHLY WITH FRESH WATER FOR AT LEAST 15 MINUTES, GET MEDICAL ATTENTION.	
First Aid Measures	Skin FLUSH WITH FRESH WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHES AND SHOES. Ingestion GIVE WATER - DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE FLUIDS BY MOUTH TO AN UNCONSCIOUS PERSON	
V Fire Fighting Measures	UNCONSCIOUS PERSON. Fire Control WEAR FULL PROTECTIVE GEAR TO PREVENT SKIN CONTACT AND SCBA. Measures/ Equipment Flammable Property Info Explosion Info HEAT OR FIRE MAY RELEASE VAPORS OF HYDROFLUORIC ACID. Extinguishing Media WATER, C02, DRY CHEMICAL, FOAM Gases Gases	

VI Accidental Measures	Spill and LeakNEUTRALIZE SPILL WITH SODA ASH OR LIME. COLLECT MATERIAL WITH CLEAN SHOVEL AND PLACE IN PROPER CONTAINER FOR DISPOSAL AS HAZARDOUS WASTE. FLUSH SPILL AREA WITH WATER.Procedures		
	Environmental Precautions		
	Ventilation Required? NO Instructions NORMAL AIR DILUTION		
VII Handling and Storage	Safe Storage, Handling and UseKEEP CONTAINER TIGHTLY CLOSED. STORE IN CORROSION PROOF AREA.DO NOT STORE NEAR OXIDIZING MATERIALS OR CHLORINATED CLEANERS OR BLEACHES. SOLUTIONS OFPRODUCT WILL ETCH GLASS. USE ONLY IN STAINLESS STEEL MACHINES.		
-	Imcompatible Materials MOST COMMON METALS, STRONG BASES, AMINES, CARBONATES, METAL OXIDES.		
	Protective Gloves ACID RESISTANT, RUBBER OR PVC		
VIII	Eye Protection SPLASH GOGGLESOR FACE SHIELD		
Exposure Controls/ Personal Protection	Respiratory USUALLY NOT REQUIRED UNLESS EXPOSURE LIMITS ARE EXCEEDED Protection THEN NIOSH ACID RESPIRATOR.		
	Other Protective WEAR APRON WHEN HANDLING AND CHEMICALLY IMPERVIOUS CLOTHING AND FOOTWEAR; SAFETY SHOWER/EYE WASH IN USE AREA.		
	Characteristics o of Hazardous Chemcial Vapor Pressure 12.8 MmHg@ 20 °C Vapor Density(Air=1 >1 pH Water Solubility 100% %		
IX	Vapor Pressure 12.8 MmHg@ 20 °C Vapor Density(Air=1] PH Water Solubility 100% % Appearance & Odor CLEAR COLORLESS LIQUID, PUNGENT ODOR F		
Physical and Chemical Properties	Boiling Point 217 °F Melting Point °F Flammability Limits in Air By Volume: Upper N/A Lower N/A Flash Point NONE °F Auto Ignition N/A °F Oxidizing Properties		
	Specific Gravity 1.10 Volatile by Volume 87 %		
	Evaporation Rate(n-Butyl Acetate=1) >1		
	Peroxide, Pyrophoric, Unstable or Water Reactive TO 200 F Reactivity and Hazardous Polymerization NONE		
X	Possible Hazardous Reactions		
	Conditions to Avoid		
Stability and Reactivity	Materials MOST COMMON METALS, STRONG BASES, AMINES, CARBONATES, METAL To Avoid OXIDES.		
	Hazardous ABOVE 200 DEGREES F MAY RELEASE TOXIC VAPORS OF Decomposition Products HYDROFLUORIC ACID.		
XI Toxicological Information			
XII	Possible Effects and Environmental Fate		
Ecological Information	Degradability		
XIII Disposal Consideration	Aquatic Toxicity Method of Disposal, Residues and Safe Handling ADJUST PH BEFORE DISPOSAL OF SMALL AMOUNTS. USE UNTIL LESS THAN ONE INCH REMAINS IN CONTAINER. EMPTY CONTAINER. TRIPLE RINSE WITH WATER, ADD TO OPERATION. REMOVE OR DEFACE CONTAINER LABEL BEFORE SELLING OR DISPOSAL. CONSULT LOCAL OR STATE REGULATIONS REGARDING HAZARDOUS WASTE DISPOSAL.		
	Disposal of Contaminated Material ABOVE 200 DEGREES F MAY RELEASE TOXIC VAPORS OF HYDROFLUORIC ACID.		
XIV Transport Information	CORROSIVE LIQUID,ACIDIC,INORGANIC, N.O.S.,(FLUOROSILICIC ACID),8,UN3264, PG II, ERG NO.60, NAERG NO. 154		
XV-Regulatory Information			
XVI-Other Information			
S.A.R.A. Title III Section 313	NONE ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.		
State Right to Know Information	HYDROFLUOROSILICIC ACID - CAS #1309-45-1 WATER - CAS #7732-18-5 NONYLPHENOXY POLYETHOXY GLYCOL - CAS #9016-45-9 C.I. ACID VILOET #76 DYE - CAS #61901-47-1		