



MATERIAL SAFETY DATA SHEET

Printed: 02/06/2004

[illegible]

VI Accidental Measures	Spill and Leak Clean UP Procedures	FLUSH SMALL AMOUNTS TO DRAIN AFTER NEUTRALIZATION WITH DILUTE ALKALI. IMPOUND LARGE AMOUNTS AS HAZARDOUS WASTE. CERCLA RQ = 666 LBS. OR 77 GAL.										
	Environmental Precaution:											
VII Handling and Storage	Ventilation Required?	WORK SITE		Instructions	YES							
	Safe Storage, Handling and Use Instructions	KEEP CONTAINER CLOSED. IF FROZEN, THAW AND MIX TO MAKE USABLE. KEEP AWAY FROM CHLORINATED CLEANERS AND BLEACHES. SOLUTIONS OF PRODUCT WILL ETCH GLASS. DO NOT STORE OR CONTAMINATE FOOD.										
	Incompatible Materials											
VIII Exposure Controls/ Personal Protection	Protective Gloves	NEOPRENE, ACID RESISTANT										
	Eye Protection	SAFETY GLASSES, FACE SHIELD										
	Respiratory Protection	NONE USUALLY REQUIRED										
	Other Protective Clothing Equipment	CHEMICALLY IMPERVIOUS CLOTHING; SAFETY SHOWER/EYE WASH										
IX Physical and Chemical Properties	Characteristics o of Hazardous Chemical											
	Vapor Pressure	17.5	MmHg@	20	°C	Vapor Density(Air=1)	N/A	pH	4.5	Water Solubility	100	%
	Appearance & Odor	CLEAR COLORLESS LIQUID										
	Boiling Point	214	°F	Melting Point	°F	Flammability Limits in Air By Volume: Upper NONE Lower NONE						
	Flash Point	NONE	°F	Auto Ignition	N/A	°F	Oxidizing Properties					
	Specific Gravity	1.045					Volatile by Volume 85 %					
	Evaporation Rate(n-Butyl Acetate=1)	>1										
X Stability and Reactivity	Peroxide, Pyrophoric, Unstable or Water Reactive	NONE										
	Reactivity and Hazardous Polymerization	NONE										
	Possible Hazardous Reactions											
	Conditions to Avoid											
	Materials To Avoid	STRONG ALKALIS; MILD METALS, CHLORINATED PRODUCTS.										
	Hazardous Decomposition Products	ABOVE 200 DEGREES F MAY RELEASE TOXIC VAPORS OF HYDROFLUORIC ACID.										
XI Toxicological Information												
XII Ecological Information	Possible Effects and Environmental Fate											
	Degradability											
	Aquatic Toxicity											
XIII Disposal Consideration	Method of Disposal, Residues and Safe Handling	USE UNTIL LESS THAN 1 INCH REMAINS IN CONTAINER, EMPTY CONTAINER TRIPLE RINSE WITH WATER, ADD TO OPERATION REMOVE OR DEFACE LABEL BEFORE SELLING CONTAINER 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	AMMONIUM HYDROGEN DIFLUORIDE, SOLUTION, 8, (6.1), UN2817, PG II, ERG#60, NAERG #154											
XV-Regulatory Information												
XVI-Other Information												
S.A.R.A. Title III Section 313	ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.											
State Right to Know Information	AMMONIUM HYDROGEN FLUORIDE - CAS #1341-49-7 WATER - CAS #7732-18-5											