

Section 2 – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

(Hazardous Ingredients as Defined by OSHA, 29 CFR 1910.1200)

<u>% By Wgt. Material</u>		<u>PEL</u>	<u>T.L.V.</u>	<u>C.A.S. No.</u>
0-5%	Hydrogen Chloride*	7 mg/m3	7 mg/m3	7647-01-0
0-5%	Hydroxyacetic Acid*	NE	NE	79-14-1
0-5%	Alkylbenzenesulfonic Acid	NE	NE	68584-22-5

The balance of ingredients are not considered to be hazardous within the meaning of OSHA Hazard Communication Standard. ITEMS MARKED \* ARE SARA TITLE III SEC 313 REPORTABLES. ALL INGREDIENTS ARE ON TSCA INVENTORY.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: <200 F.  
VAPOR PRESSURE: N/E  
VAPOR DENSITY: N/E  
SPECIFIC GRAVITY: 1.042  
MELTING POINT: N/E  
EVAPORATION RATE: 1  
(butyl acetate =1)

SOLUBILITY IN WATER: Complete  
APPEARANCE AND ODOR: Light Colored Liquid, Acid Odor  
pH: 1.0 – 2.0

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A FLAMMABLE LIMITS: N/A  
EXTINGUISHING MEDIA – Use appropriate media for primary cause of fire.  
SPECIAL FIRE FIGHTING PROCEDURES – Use OSHA approved self contained breathing apparatus and protective clothing when any materials is involved in a fire.  
UNUSUAL FIRE AND EXPLOSION HAZARDS – Reacts with active metals (Potassium, sodium, calcium, powdered aluminum, zinc, magnesium) to produce flammable hydrogen gas.

SECTION 5 - REACTIVITY DATA

STABILITY: Stable  
INCOMPATIBILITY (MATERIALS TO AVOID): Strong alkalis, most metals, bleach.  
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Hydrogen or chlorine gas.  
HAZARDOUS POLYMERIZATION – will not occur.

SECTION 6 - HEALTH HAZARD DATA

ROUTES OF ENTRY: EYES (X) SKIN (X) INGESTION (X) INHALATION (X)  
PRECAUTIONARY STATEMENTS – CAUTION – KEEP OUT OF REACH OF CHILDREN.  
Harmful if swallowed. May cause severe eye and skin burns. Do not get in eyes, on skin or on clothing. Avoid breathing vapors. Wash thoroughly after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.  
CARCINOGENICITY; NTP, IARC MONOGRAPHS, OSHA REGULATED? No  
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE- None known.

EMERGENCY AND FIRST AID PROCEDURES:

IF IN EYES: IMMEDIATELY flush with plenty of water for at least 15 minutes. Get medical attention. IF ON SKIN: Wash with plenty of water. Remove contaminated clothing. Get medical attention if irritation occurs. IF SWALLOWED: Do not induce vomiting. Drink a large quantity of water. Get immediate medical attention. INHALATION: Get to fresh air. Seek medical attention if irritation persists.

SECTION 7 – STORAGE AND DISPOSAL

PRECAUTIONS FOR SAFE HANDLING AND STORAGE: Keep out of reach of children. Store away from oxidizing agents, alkalis, metal, and heat. Keep container closed during storage. Store in a cool, dry place. For industrial and commercial use only.  
STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED – Absorb spilled material and sweep up.  
WASTE DISPOSAL METHOD – Any method in accordance with applicable laws.

SECTION 8- CONTROL MEASURES

RESPIRATORY PROTECTION – Normally not needed.  
PROTECTIVE GLOVES – Impervious rubber gloves.  
EYE PROTECTION – Splash Proof Chemical Safety Goggles.

Hydrogen Chloride is regulated under CERCLA RQ= 5,000 lbs. Hydrogen Chloride is reportable under SARA Title III Section 313  
N/A = Not Applicable N/E = Not Established Prepared By: Cindy Schroeder, Director of Research