

# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION					
<b>NFPA Rating:</b> Health-3; Flammability-0; Reactivity-1; Special- - <b>Manufacturer's Name:</b> LYN DISTRIBUTING <b>Address:</b> 965 North Redwood Road North Salt Lake, Utah 84010			<b>HMIS Rating:</b> Health-3; Flammability-0; Reactivity-1; Personal Protection-B <b>DOT Hazard Classification:</b> Corrosive Material 8 <b>Identity (trade name as used on label):</b> DE-RUST - 20		
<b>Date Prepared:</b> 06/10/98 <b>Prepared By:</b> STAN <b>Information Calls:</b> (801)295-5022 <b>EMERGENCY RESPONSE NUMBER:</b> 1(800)366-5022			<b>MSDS Number:</b> <b>Revision -</b> 5 <b>NOTICE:</b> JUDGEMENT BASED ON INDIRECT TEST DATA		
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION					
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	Yes	25	25	d
PHOSPHORIC ACID	7664-38-2	Yes	1mg/m3	1mg/m3	d
AMMONIUM BIFLUORIDE (EXP. LIMITS FOR FLUORIDE AS DUST)	1341-49-7	No	N/E	N/E	d
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS					
<b>Boiling Point:</b> 100°C			<b>Specific Gravity (H2O=1):</b> 1.100-1.250		
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): N/A			<b>Vapor Pressure (Non-Aerosols)(mm Hg and Temperature):</b> N/D		
<b>Vapor Density (Air = 1):</b> N/D			<b>Evaporation Rate (water = 1):</b> 1		
<b>Solubility in Water:</b> Miscible			<b>Water Reactive:</b> No		
<b>Appearance and Odor:</b> Clear to slightly hazy viscous pink liquid with characteristic odor.					
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA					
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) N/A		<b>Auto Ignition Temperature</b> N/A		<b>Flammability Limits in Air by % in Volume:</b> % LEL: N/A      % UEL: N/A	
<b>FLASH POINT AND METHOD USED (non-aerosols):</b> Non-combustible			<b>EXTINGUISHER MEDIA:</b> Non-combustible. Use media appropriate to surrounding fire.		
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Self-contained breathing apparatus.					
<b>Unusual Fire &amp; Explosion Hazards:</b> Reaction with metals may release flammable hydrogen gas. Heat may release corrosive hydrogen fluoride gas or mist.					
SECTION 4 - REACTIVITY HAZARD DATA					
<b>STABILITY</b> [ X ] STABLE [ ] UNSTABLE			<b>HAZARDOUS POLYMERIZATION</b> [ ] WILL [ X ] WILL NOT OCCUR		
<b>Incompatibility (Mat. to avoid):</b> Bases, metals, glasses, carbides, acetylides, phosphides, silicides.			<b>Conditions to Avoid:</b> Contact with strong bases can cause violent reaction generating large amounts of heat.		
<b>Hazardous Decomposition Products:</b> Hydrogen fluoride gas, oxides of phosphorus, nitrogen & carbon, unidentified organics.					
SECTION 5 - HEALTH HAZARD DATA					
<b>PRIMARY ROUTES OF ENTRY:</b> [ ] INHALATION [ ] INGESTION [ X ] SKIN ABSORPTION [ X ] EYE [ ] NOT HAZARDOUS					
<b>ACUTE EFFECTS:</b> Corrosive to eyes, skin, mucous membranes.					
<b>Inhalation:</b> May cause severe irritation to upper respiratory tract. Not likely to be a problem under normal conditions of handling and use.					
<b>Eye Contact:</b> May cause burns.			<b>Skin Contact:</b> May cause severe irritation & fluoride burns, which may not be immediately evident.		
<b>Ingestion:</b> May cause systemic toxic effects as well as tissue damage to GI tract.					
<b>CHRONIC EFFECTS:</b> Gastric, intestinal, circulatory, respiratory, nervous complaints, skin rashes.					
<b>Medical Conditions Generally Aggravated by Exposure:</b> Asthma and conditions affecting above systems and others.					
EMERGENCY FIRST AID PROCEDURES					
<b>Eye Contact:</b> Flush (including under lids) with water for 30 minutes. Get medical attention.					
<b>Skin Contact:</b> Flush with cold water for at least 15 minutes. Use alkaline soap. If irritation occurs, get medical attention.					
<b>Inhalation:</b> Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.					
<b>Ingestion:</b> DO NOT INDUCE VOMITING. Drink large quantity of water. Get immediate medical attention.					
SECTION 6 - CONTROL AND PROTECTIVE MEASURES					
<b>Respiratory Protection (specify type):</b> Not generally needed under normal conditions of handling and use.					
<b>Protective Gloves:</b> Neoprene or PVC.			<b>Eye Protection:</b> Chemical goggles.		
<b>Ventilation Requirements:</b> Special ventilation is not generally needed under normal conditions of handling & use.					
<b>Other Protective Clothing &amp; Equipment:</b> Eyewash stations & safety showers.					
<b>Hygienic Work Practices:</b> Avoid contact with skin and avoid breathing vapors.					
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE					
<b>Steps To Be Taken If Material Is Spilled Or Released:</b> Contain spill. Do not contaminate sewers, ground or surface waters. Neutralize with soda ash or lime. Soak up in inert absorbent. Place in sealed, leak-proof, properly labeled containers.					
<b>Waste Disposal Methods:</b> Dispose of in accordance with all local, state and federal regulations.					
<b>Precautions To Be Taken In Handling &amp; Storage:</b> Store in original container. Keep container sealed when not in use. Shelf life one year. Protect from extreme heat or cold.					
<b>Other Precautions &amp;/or Special Hazards:</b> KEEP OUT OF REACH OF CHILDREN. Read and follow label directions.					

*We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.*

\*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only