

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	
NFPA Rating: Health-3; Flammability-0; Reactivity-1; Special- - Manufacturer's Name: LYN DISTRIBUTING Address: 965 North Redwood Road North Salt Lake, Utah 84010	HMIS Rating: Health-3; Flammability-0; Reactivity-1; Personal Protection-B DOT Hazard Classification: Corrosive Material 8 Identity (trade name as used on label): ALUMINUM CLEANER (ACID TYPE)
Date Prepared: 06/10/98 Prepared By: STAN	MSDS Number: Revision: 5
Information Calls: (801)295-5022 EMERGENCY RESPONSE NUMBER: 1(800)366-5022	NOTICE: 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	
Boiling Point: 100°C	Specific Gravity (H2O=1): 1.100-1.250
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A	Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/D
Vapor Density (Air = 1): N/D	Evaporation Rate (water = 1): 1
Solubility in Water: Miscible	Water Reactive: No
Appearance and Odor: Clear to slightly hazy non-viscous pink liquid with characteristic odor.	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA		
FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A	Auto Ignition Temperature N/A	Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A
FLASH POINT AND METHOD USED (non-aerosols): Non-combustible		EXTINGUISHER MEDIA: Non-combustible. Use media appropriate to surrounding fire.
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained breathing apparatus.		
Unusual Fire & Explosion Hazards: Reaction with metals may release flammable hydrogen gas. Heat may release corrosive hydrogen fluoride gas or mist.		

SECTION 4 - REACTIVITY HAZARD DATA	
STABILITY <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE	HAZARDOUS POLYMERIZATION <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR
Incompatibility (Mat. to avoid): Bases, metals, glasses, carbides, acetylides, phosphides, silicides.	Conditions to Avoid: Contact with strong bases can cause violent reaction generating large amounts of heat.
Hazardous Decomposition Products: Hydrogen fluoride gas, oxides of phosphorus, nitrogen & carbon, unidentified organics.	

SECTION 5 - HEALTH HAZARD DATA	
PRIMARY ROUTES OF ENTRY: <input type="checkbox"/> INHALATION <input type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS	
ACUTE EFFECTS: Corrosive to eyes, skin, mucous membranes.	
Inhalation: May cause severe irritation to upper respiratory tract. Not likely to be a problem under normal conditions of handling and use.	
Eye Contact: May cause burns.	Skin Contact: May cause severe irritation & fluoride burns, which may not be immediately evident.
Ingestion: May cause systemic toxic effects as well as tissue damage to GI tract.	
CHRONIC EFFECTS: Gastric, intestinal, circulatory, respiratory, nervous complaints, skin rashes.	
Medical Conditions Generally Aggravated by Exposure: Asthma and conditions affecting above systems and others.	

EMERGENCY FIRST AID PROCEDURES	
Eye Contact: Flush (including under lids) with water for 30 minutes. Get medical attention.	
Skin Contact: Flush with cold water for at least 15 minutes. Use alkaline soap. If irritation occurs, get medical attention.	
Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.	
Ingestion: DO NOT INDUCE VOMITING. Drink large quantity of water. Get immediate medical attention.	

SECTION 6 - CONTROL AND PROTECTIVE MEASURES	
Respiratory Protection (specify type): Not generally needed under normal conditions of handling and use.	
Protective Gloves: Neoprene or PVC.	Eye Protection: Chemical goggles.
Ventilation Requirements: Special ventilation is not generally needed under normal conditions of handling & use.	
Other Protective Clothing & Equipment: Eyewash stations & safety showers.	
Hygienic Work Practices: Avoid contact with skin and avoid breathing vapors.	

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE	
Steps To Be Taken If Material Is Spilled Or Released: 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.	
Waste Disposal Methods: Dispose of in accordance with all local, state and federal regulations.	
Precautions To Be Taken In Handling & Storage: Store in original container. Keep container sealed when not in use. Shelf life one year. Protect from extreme heat or cold.	
Other Precautions &/or Special Hazards: 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