

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-0; Special- -			HMIS Rating: Health-3; Flammability-0; Reactivity-0; Personal Protection-B			
Manufacturer's Name: LYN DISTRIBUTING			DOT Hazard Classification: Corrosive Material, 8			
Address: 965 North Redwood Road North Salt Lake, Utah 84010			Identity (trade name as used on label): TWCB CITRUS BRIGHTNER			
Date Prepared: 02/22/2008		Prepared By: Stan		MSDS Number: Revision - 2		
Information Calls: (801)295-5022			NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA			
EMERGENCY RESPONSE NUMBER: 1(800)366-5022						
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 **
CITRIC ACID		77-92-9	No	1mg/m3	1mg/m3	d
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
Boiling Point: 215°F			Specific Gravity (H ₂ O=1): 1.06			
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A			Vapor Pressure (Non-Aerosols)(mm Hg and Temperature): N/D			
Vapor Density (Air = 1): .88			Evaporation Rate (water = 1): 1.0			
Solubility in Water: Miscible			Water Reactive: No			
Appearance and Odor: clear green, non-viscous, liquid with no odor.			V.O.C. 0 grams per liter			
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, water based.			SPECIAL FIRE FIGHTING PROCEDURES: Non-combustible. Use clothing & safety equipment as may be suitable for phosphoric acid & materials in the surrounding fire.			
EXTINGUISHER MEDIA: Non-combustible. Use agents as appropriate for materials in surrounding fire.						
Unusual Fire & Explosion Hazards: Will liberate flammable hydrogen gas on contact with many metals. Protect personnel against mist, vapor or splashes.						
SECTION 4 - REACTIVITY HAZARD DATA						
STABILITY [X] STABLE [] UNSTABLE			HAZARDOUS POLYMERIZATION [] WILL [X] WILL NOT OCCUR			
Incompatibility (Mat. to avoid): bases, strong oxidizing agents, reducing agents, metal nitrates.			Conditions to Avoid: None			
Hazardous Decomposition Products: unidentified organic compounds.						
SECTION 5 - HEALTH HAZARD DATA						
PRIMARY ROUTES OF ENTRY: [] INHALATION [] INGESTION [X] SKIN ABSORPTION [X] EYE [] NOT HAZARDOUS						
ACUTE EFFECTS: Corrosive material. Irritant to all body tissues. Prolonged or repeated contact may damage or destroy body tissues.						
Inhalation: Mist & spray can cause respiratory tract irritation with burning, choking, coughing. High concentrations &/or prolonged contact can cause inflammation & destruction of nasal passages & breathing difficulties, which may be delayed in onset.						
Eye Contact: Liquid can cause eye irritation, severe burns & permanent damage including blindness.			Skin Contact: Liquid can cause burning of skin. Repeated or prolonged contact can cause irritation & dermatitis.			
Ingestion: Can cause severe burns of mouth, esophagus and stomach. Nausea, pain and vomiting can occur.						
CHRONIC EFFECTS: Repeated episodes of tissue damage may result in accumulation of scar tissue.						
Medical Conditions Generally Aggravated by Exposure: Contact may further irritate any pre-existing lesions.						
EMERGENCY FIRST AID PROCEDURES						
Eye Contact: Irrigate with large quantities of water, lifting upper and lower eyelids occasionally. Get medical attention.						
Skin Contact: Remove contaminated clothing & wash skin with large quantities of water. If irritation persists, get medical attention.						
Inhalation: Remove to fresh air. If breathing stops, give artificial respiration. Get immediate medical attention.						
Ingestion: DO NOT INDUCE VOMITING. Drink 3 to 4 glasses of water. Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
Respiratory Protection (specify type): Not normally needed at ambient temperatures. Under fire conditions, use approved self-contained breathing apparatus with full face piece.						
Protective Gloves: Neoprene or PVC.			Eye Protection: Chemical goggles, face shield where splashing is possible.			
Ventilation Requirements: As necessary to maintain air concentrations below 1mg/m3 at all times. Special ventilation is not normally needed.						
Other Protective Clothing & Equipment: Safety showers & eyewash stations. Neoprene or PVC rain suit & boots, if needed.						
Hygienic Work Practices: Avoid contact with skin. Do not eat, drink or smoke in work area. Wash hands after handling. Remove contaminated clothing.						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
Steps To Be Taken If Material Is Spilled Or Released: Contain spill & prevent run off into ground & surface waters or sewers. Neutralize with soda ash. Recover neutralized products into properly labeled non-leaking containers for proper disposal.						
Waste Disposal Methods: Dispose of in accordance with all local, state and federal regulations.						
Precautions To Be Taken In Handling & Storage: Store in original shipping containers. Keep closed when not in use. Do not store near strong alkalis or other reactive materials. Shelf life 1 year. Protect from extreme heat and cold.						
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & 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

