## **MATERIAL SAFETY DATA SHEET**

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

IDENTITY AND MANUFA	CTU	RER'S INFORMATION	ON				
NFPA Rating: Health-3; Flammability-0; Reactivity-0; Special	НМІ	IS Rating: Health-3;	Flammabili	ty-0; Reactiv	rity-0; Persor	nal Protection-B	
Manufacturer's Name: LYN DISTRIBUTING	DOT Hazard Classification: Corrosive Material 8						
Address 965 North Redwood Road	Identity (trade name as used on label):						
North Salt Lake, Utah 84010	LDX-33 DESCALER						
Date Prepared: 06/10/08 Prepared By: stan	MS	DS Number:		Revisio			
Information Calls: (801)295-5022 EMERGENCY RESPONSE NUMBER: 1(800)366-5022		NOTICE: JUDGE	MENT BA	ASED ON INI	DIRECT TES	T DATA	
SECTION 1 - MATERIAL IDENT	TIFIC	ATION AND INFOR	MATION				
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES		CAS Number	SARA	OSHA PEL	ACGIH	Carcinogen	
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)			III LIST	(ppm)	TLV (ppm)	Ref. Source *	
HYDROGEN CHLORIDE		7647-01-0	Yes	5	5	d	
Citric Acid	77-92-9 No		No				
SECTION 2 - PHYSICAL/CH	EMI	CAL CHARACTERI	STICS				
Boiling Point: >212 ° F		cific Gravity (H2O=1)					
Vapor Pressure: PSIG @ 70°F (Aerosols): N/A		Vapor Pressure (Non-Aerosols)(mm Hg and Temperature) 75°F: 26m					
Vapor Density (Air = 1): N/A	Evaporation Rate (water = 1): 1.0						
Solubility in Water: Total	Wat	er Reactive: No					
Appearance and Odor: Clear, amber fluid with chlorine odor.  SECTION 3 - FIRE AND E	VDI	OSION HAZABO DA	т.				
				a a bility Limity	a in Air by 0/	in Malumau	
(aerosols) N/A	uto Ignition Temperature						
FLASH POINT AND METHOD USED (non-aerosols): None	EYT	INGUISHER MEDIA:			76 U	EL. IN/A	
SPECIAL FIRE FIGHTING PROCEDURES: None		INCOIONEN MEDIA.	NOTE COME	ustibic			
Unusual Fire & Explosion Hazards: Avoid exposure to metals, oxidants whi	ich m	night produce flammabl	e hydroge	n gas.			
SECTION 4 - REACT	IVIT	Y HAZARD DATA					
STABILITY [ X ] STABLE [ ] UNSTABLE		ZARDOUS POLYMERIZ		<u> </u>	X ] WILL NO		
Incompatibility (Mat. to avoid): Bases, metals, mercuric sulfate, carbides of				strong bases	can cause vio	lent reaction	
Ca, Cs, Rb.  Hazardous Decomposition Products: Hydrogen gas.	gen	erating large amounts	of heat.				
SECTION 5 - HEAL	TU	UAZADO DATA					
PRIMARY ROUTES OF ENTRY: [ X ] INHALATION [ ] INGESTIG		X SKIN ABSORP	LION L	K]EYE []	NOT HAZAR	DOLLS	
ACUTE EFFECTS	OIV	[ X ] OKIN ADOOKI	IION [ /	() [ ]	NOTTIALAK	D003	
Inhalation: Irritant causing burning, choking, coughing, headaches.							
Eye Contact: Irritation, severe burns & permanent damage including blindness.	Skir	n Contact: Burning, ir	ritation and	d dermatitis.			
Ingestion: Unlikely route, causes severe burns to internal organs.							
CHRONIC EFFECTS: None known.							
Medical Conditions Generally Aggravated by Exposure: Skin, eye, mucous							
EMERGENCY FIRST	I AIL	PROCEDURES					
Eye Contact: Flush with water for 15 minutes. Get medical attention.  Skin Contact: Remove contaminated clothing. Wash with water for 15 minutes.	,						
Inhalation: Remove to fresh air. Get medical attention.	<i>.</i>						
Ingestion: DO NOT INDUCE VOMITING. Drink large quantity of water. Get in	nmed	diate medical attention.					
SECTION 6 - CONTROL AN			JRES				
Respiratory Protection (specify type): Approved self-contained breathing ap	parat	us when air concentrat	ions excee	ed 100 ppm H0	CL vapors.		
Protective Gloves: Neoprene	Eye	Protection: Chemica	l goggles	and/or face sh	ield.		
Ventilation Requirements: As necessary to maintain HCL vapors below 5 pp							
Other Protective Clothing & Equipment: Neoprene or PVC rain suit & boots							
Hygienic Work Practices: Do not eat, drink or smoke in work area. Wash han							
SECTION 7 - PRECAUTIONS F							
Steps To Be Taken If Material Is Spilled Or Released: Contain fluid by dikin	g. Ne	eutralize with soda ash	or alluted	caustic soda.			
Waste Disposal Methods: Wash neutralized material down the sewer.  Precautions To Be Taken In Handling & Storage: Store in original container	or ac	cid-resistant containers	Keen con	tainer sealed v	when not in us	se Shelf life	
one year. Store in cool, bare metal free area.	Ji at						
Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILL	DREN	N. Read and follow labe	el direction	s. Do not store	e near strong	alkalies or othe	
reactive metals.							

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

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