MATERIAL SAFETY DATA SHEET

Page 1 of 2

SECTION 1 – PRODUCT IDENTIFICATION

Product Name	Product Type
COOLING TOWER DESCALER (XUPERSOL)	25 LITTERS

SECTION 2 – HAZARDOUS INGREDIENTS

INGREDIENT	CAS	OSHA PEL	AGGIH TLV	% or Range
Hydrochloric Acid 33%	7647-01-0	1 mg/m³	1 mg/m ³	> 33
Hydrochloric Acid 55%	7664-93-3	3 ppm³	3 ppm³	< 12

SECTION 3 - PHYSICAL DATA

Boiling pt (c)	Sg (H2O = 1)	Melting pt
109°C (212°F)	1.18	-74°C (-101°F)
Vapor Pressure (MMHG)	Vapor Density (AIR = 1)	Appearance and Odor
17	1.0	Colourless Maroon, Fuming
		Liquid
Solubility in water	Evaporation Rate (H2O = 1)	pH
Complete	1.0	3 to 4

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flammability as per CPSC Flame Extension Test:	Flammable limit -	Upper	Lower
Flash point NONE		N/A	N/A
(T.C.C)			
Extinguishing media	•		
Using extinguishing media appropriate for surrounding f	iire		
Special Fire Fighting Procedures			
Self-contained breathing apparatus. Full coverage imper	vious gear.		
Unusual Fire and Explosion Hazard			
Extinguishing all nearby source of ignition, Flammable h	Extinguishing all nearby source of ignition, Flammable hydrogen gas liberated from contact with some metal.		

SECTION 5 - REACTIVE DATA

Stability	Incompatibility (Material to avoid)	
Stable	Alkaline products, ammonia, chlorine bleach, oxidizer	
Hazardous Decomposition Products		
Excess heat and contamination of any kind may liberate hydrogen fluoride.		
Polymerization		
Will not occur		

SECTION 6 – HEALTH HAZARDS

Route(s) of entry	Inhalation	YES	Skin	YES	Ingestion	YES	Eyes	YES	
Effects of over expo	osure		Very corr	osive to ski	n and eyes.				
Inhalation: Mists extremely corrosive nose and throat. Painful & burning, chronic effects respiratory.									

EMERGENCY AND FIRST AID PROCEDURES

EYES	Hold eyelids apart and flood eyes with running water for at least 15 minutes. A 1% calcium
	gluconate solution should be used to wash eyes for 10-15 minutes and then instilled every 2-3 hours.
	A physician or preferable an eye specialist should be called IMMEDIATELY.
SKIN	Painful detection may be delayed. If suspected contact, treat as contact. Wash affected area of skin
	with copious amounts of water. A calcium gluconate gel (2.5 %) or 1% zepbrine chloride wash should
	be rubbed in until pain has subside. SEEK IMMEDIATE MEDICAL HELP.
Ingestion	Drink large amounts of water, then swallow milk of 2 oz of milk of magnesia. DO NOT INDUCE
	WOMITING. SEEK IMMEDIATE MEDICAL ATTENTION.
Inhalation	Remove to fresh air. SEEK IMMEDIATE MEDICAL ATTENTION.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

Step to be taken in case container is punctured and material is released.			
Small spills	Small spills Neutralize with dilute alkaline and flush with water to drain.		
Large spills	Absorb spill with vermiculite – shovel into clean container for disposal.		
Waste Disposal Method Deposits in landfill in accordance with local, state and fede		Deposits in landfill in accordance with local, state and federal regulations.	

SECTION 8 – SPECIAL PROTECTION INFORMATION

Respiratory Protection		
Need to protect from exposure to mists and fumes. Use approve NIOSH high efficiency respirator for hydrogen		
fluoride.		
Ventilation		
Local exhaust adequate.		
Protective Glove	Eyes Protection	
Chemical resistance rubber or plastic.	Chemical goggles recommended.	
Other		
Do not eat, drink or smoke in work area. Wash hands before eating.		

SECTION 9 – SPECIAL PRECAUTION

Precaution to be taken on handling and storage		
Keep container closed when not in use. Store away from other chemicals.		
Special Precauti	ionary Statement	
Keep this and a	all chemicals out of reach of children.	
NOTICE:	We believe that the information contained o this material safety data sheet is accurate. The suggested	
	procedures are based on experience as of the date of publication. They are not necessarily all inclusive	
	nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor	
	followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty,	
	expressed or implied of merchantability, fitness or otherwise is made.	