

SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined
N/A=Not Applicable

Product: RUST REMOVER	Manufacturer: ESTEAM	Flammability: 0
Chem. Name: N/A	Trade Name: Rust Remover	Reactivity: 0
Chem. Family: Mixture	Use: Removal of rust, metallic and other stains	Health: 2
		Protection:
NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4		

HAZARDOUS INGREDIENTS	CAS #	% WT	HAZARD DATA	EXPOSURE LIMITS (TLV)
Phosphoric Acid	7664-38-2	1-5	LD50 1530 mg/kg (oral-rat)	1 mg/m3
Oxalic Acid	144-6-27	1-5	LD50 475 mg/kg (oral-rat)	2 mg/m3
2-Butoxyethanol	111-76-2	1-5	LD50 1746 mg/kg (oral-rat)	25 ppm TWA

PHYSICAL DATA				Freeze/Thaw
Physical State: Liquid	Boiling Point (C): 100	Solubility in Water: 100%	Evaporation Rate: N/D	Stable: Yes
Odor/ Appearance: Clear, sharp odor	Freezing Point (C): 0	Ph (undiluted): 0.6	Specific Gravity: N/D	Percent Volatile (vol): N/D
				Vapor Pressure: N/D

FIRE & EXPLOSION HAZARD		Conditions:
Flammability: N	Hazardous Combustion Products: Phosphorous oxide	Conditions: N/A
Means of Extinction: All types	Upper Explosion Limit (% by vol): N/A	
Special Procedures: Spray water to cool & control vapors	Lower Explosion Limit (% by vol): N/A	
Explosion Sensitivity to Impact: N/A	Auto-ignition: N/A	
Chemical Sensitivity to Static Discharge: N/A	Rate of Burning: N/A	TDG/WHMIS: Non hazardous / E, D2B
Flashpoint (C) & Method: N/A	Explosive Power: N/A	

REACTIVITY DATA	Chemical Stability:
Hazardous Decomposition Product: None	Stable: Stable
	Incompatible Substances: Bases, sulphides, phosphides, cyanides, acetylides, fluorides, silicocide and carbides.

TOXICOLOGICAL PROPERTIES			Effects of Overexposure:
Route of Entry - Skin Contact: Y	Reproductive Effects Y/N: N/D		Acute Effects: May cause severe skin irritation. If splashed in eyes, may cause severe burns or permanent eye damage. Inhalation of mist may cause nose and throat irritation. Ingestion may cause burns to the mouth & throat, pain in the stomach, nausea, vomiting, diarrhea & convulsions. In severe cases collapse and death. Chronic Effects: Skin contact may cause dermatitis.
Route of Entry - Skin Absorption: N	Carcinogenicity Y/N: N		
Route of Entry - Eye Contact: Y	Mutagenicity Y/N: N		
Route of Entry - Inhalation: Y	Teratogenicity Y/N: N		
Route of Entry - Ingestion: Y	TLV: N/D		

PREVENTATIVE MEASURES		
Gloves: Rubber	Footwear: Rubber Boots	Clothing: Resistant coveralls
Eyes: Goggles	Respirator: N/A	Other: N/A

Recommended Engineered Controls: Use with adequate ventilation.	Leak & Spill Procedures: Recover liquid into a sealed plastic container for disposal. Neutralize area with soda ash or lime and flush with water.	Waste Disposal Methods: According to federal, provincial and municipal regulations.	Special Handling Procedures: Store in a plastic or acid resistant container in a clean dry area.
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FIRST AID MEASURES	
Inhalation:	Move person to fresh air. If necessary give artificial respiration or oxygen. Call a doctor if in distress.
Ingestion:	Do not induce vomiting. Rinse mouth several times with cold water. Drink large amounts of water. Seek medical attention.
Eye Contact:	Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.
Skin Contact:	Immediately flush skin for at least 15 minutes. Launder clothing before reuse. Contact a physician if irritation persists.

Prep./Revised Date: January 15, 2014	Mailing Address: Esteam Manufacturing Ltd. 3750-19th Street NE Calgary, AB T2E 6V2
Prepared By: R. Russell	
Source Material: Manufacturer's MSDS	
Emergency Response: 1-613-996-6666 (Transport Emergencies)	



This information is complete to the best of our knowledge, however, users are encouraged to make their own investigations into the suitability of the information to their particular purposes. READ THE LABEL before using this or any product, and take any necessary precautions, dictated by the label or by common sense to ensure that your health is protected.