

# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

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

<b>Product:</b> COIL CLEANER	<b>Manufacturer:</b> ESTEAM	<b>Flammability:</b> 0
<b>Chem. Name:</b> N/A	<b>Trade Name:</b> Coil Cleaner	<b>Reactivity:</b> 0
<b>Chem. Family:</b> Mineral acid	<b>Use:</b> Heat Exchanger cleaner	<b>Health:</b> 2
NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4		

HAZARDOUS INGREDIENTS	CAS #	% WT	HAZARD DATA	EXPOSURE LIMITS (TLV)
Phosphoric Acid 85%	7664-38-2	45-55	LD50 1530 mg/kg (oral-rat)	1mg/M3

## PHYSICAL DATA

<b>Physical State:</b> Liquid	<b>Boiling Point (C):</b> 100	<b>Solubility in Water:</b> Excellent	<b>Evaporation Rate:</b> N/A	<b>Freeze/Thaw Stable:</b> Doesn't freeze
<b>Odor/Appearance:</b> Clear, purple and odorless	<b>Freezing Point (C):</b> 0	<b>pH (undiluted):</b> 0.5	<b>Specific Gravity:</b> N/D	<b>Percent Volatile (vol):</b> N/D

## FIRE & EXPLOSION HAZARD

<b>Flammability:</b> N	<b>Conditions:</b> N/A
<b>Means of Extinction:</b> Water	<b>Hazardous Combustion Products:</b> Phosphorous oxide
<b>Special Procedures:</b> Spray water to cool and control vapors	<b>Upper Explosion Limit (% by vol):</b> N/A
<b>Explosion Sensitivity to Impact:</b> N/A	<b>Lower Explosion Limit (% by vol):</b> N/A
<b>Chemical Sensitivity to Static Discharge:</b> N/A	<b>Auto-ignition:</b> N/A
<b>Flashpoint (C) &amp; Method:</b> None	<b>Rate of Burning:</b> N/A
	<b>Explosive Power:</b> N/A
	<b>TDG/WHMIS:</b> Phosphoric Acid Liquid Class 8, UN# 1805, PG III / C, D2B

## REACTIVITY DATA

### Chemical Stability:

**Hazardous Decomposition Product:** None

**Incompatable Substances:** Bases, sulphides, phosphides, cyanides, acetylides, fluorides, silicocide and

## TOXICOLOGICAL PROPERTIES

<b>Route of Entry - Skin Contact:</b> Y	<b>Reproductive Effects Y/N:</b>
<b>Route of Entry - Skin Absorption:</b> N	<b>Carcinogenicity Y/N:</b> N
<b>Route of Entry - Eye Contact:</b> Y	<b>Mutagenicity Y/N:</b> N
<b>Route of Entry - Inhalation:</b> Y	<b>Teratogenicity Y/N:</b> N/D
<b>Route of Entry - Ingestion:</b> Y	<b>TLV:</b> N/D

### Effects of Overexposure:

#### 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 and throat, pain in the stomach, nausea, vomiting, diarrhea and convulsions. In severe cases collapse and death.

#### Chronic Effects:

Skin contact may cause dermatitis.

## PREVENTATIVE MEASURES

<b>Gloves:</b> Impervious	<b>Footwear:</b> Boots	<b>Clothing:</b> Resistant overalls
<b>Eyes:</b> Safety glasses	<b>Respirator:</b> N/A	<b>Other:</b> N/A

<b>Recommended Engineered Controls:</b> Use with adequate ventilation.	<b>Leak &amp; Spill Procedures:</b> Recover liquid into a sealed plastic container for disposal. Neutralize area with soda ash or lime and flush with	<b>Waste Disposal Methods:</b> According to federal, provincial and municipal regulations.	<b>Special Handling Procedures:</b> Store in a plastic or acid resistant container in a clean dry area.
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## FIRST AID MEASURES

<b>Inhalation:</b> Move person to fresh air. If necessary give artificial respiration or oxygen. Call doctor if in distress.
<b>Ingestion:</b> Do not induce vomiting. Have victim rinse mouth thoroughly with water. Give 8 oz of water to drink. Immediately transport victim to
<b>Eye Contact:</b> Immediately flush eyes with luke warm water for at least 30 minutes, holding the lid open. Get medical attention.
<b>Skin Contact:</b> Immediately flush affected area with running water for at least 20 minutes. Remove contaminated clothing shoes and bands and launder.

<b>Prep./Revised Date:</b> January 15, 2015	<b>Mailing Address:</b> Esteam Manufacturing Ltd. 3750-19th Street NE Calgary, AB T2E 6V2
<b>Prepared By:</b> R. Russell	
<b>Source Material:</b> Manufacturer's MSDS	
<b>Emergency Response:</b> 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.