

SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

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

Product: LIQUID DRYCLEANER	Manufacturer: ESTEAM	Flammability: 1
Chem. Name: N/A	Trade Name: Liquid DryCleaner	Reactivity: 0
Chem. Family: Chlorinated solvent	Use: Cleaning agent	Health: 2
		Protection:

NFPA LEAST=0, SLIGHT=1, MODERATE=2, HIGH=3, EXTREME=4

HAZARDOUS INGREDIENTS	CAS #	% WT	HAZARD DATA	EXPOSURE LIMITS (TLV)
Trichloroethylene	79-01-6	60-100	LD50 4920 mg/kg (oral-rat)	50 ppm TWA
Isoparaffinic Naptha	64741-65-7	10-30	LD50 >8000mg/kg (oral-rat)	N/A

PHYSICAL DATA				Freeze/Thaw
Physical State: Liquid	Boiling Point (C): N/D	Solubility in Water: N/D	Evaporation Rate: N/D	Stable: Doesn't freeze
Odor/ Appearance: Clear, light, solvent odour	Freezing Point (C): N/D	Ph (undiluted): N/A	Specific Gravity: N/D	Percent Volatile (vol): N/D
				Vapor Pressure: N/D

FIRE & EXPLOSION HAZARD		Conditions:
Flammability: N	Hazardous Combustion Products: N/D	
Means of Extinction: Foam, CO2, Dry Chemical	Upper Explosion Limit (% by vol): N/D	
Special Procedures: Do not use water.	Lower Explosion Limit (% by vol): N/D	Less than 5 Lt classified as Limited Quantities.
Explosion Sensitivity to Impact: N/D	Auto-ignition: N/D	TDG/WHMIS: Trichloroethylene Class 6.1 UN 1710 PG III / D, D2B
Chemical Sensitivity to Static Discharge: N/D	Rate of Burning: N/D	
Flashpoint (C) & Method: None	Explosive Power: N/D	

REACTIVITY DATA	Chemical Stability:	Incompatible Substances:
Hazardous Decomposition Product: CO, CO2, smoke, Hydrogen Chloride, Phosgene (small amounts), Chlorine (small amounts)	Stable	Water, oxidizing materials

TOXICOLOGICAL PROPERTIES		
Route of Entry - Skin Contact: Y Route of Entry - Skin Absorption: N Route of Entry - Eye Contact: Y Route of Entry - Inhalation: Y Route of Entry - Ingestion: N	Reproductive Effects Y/N: N/D Carcinogenicity Y/N: N/D Mutagenicity Y/N: N/D Teratogenicity Y/N: N/D TLV: N/D	Effects of Overexposure: Acute Effects: May cause mild eye and skin irritation on contact. Inhalation may cause dizziness, drunkenness and drowsiness, unconsciousness and even death in extreme doses. Exposures in 1000 ppm range can cause narcosis. Chronic Effects: Prolonged or repeated contact can cause dermatitis through defatting of the skin.

PREVENTATIVE MEASURES						
<table style="width: 100%;"> <tr> <td style="width: 33%;">Gloves: Solvent resistant</td> <td style="width: 33%;">Footwear: N/A</td> <td style="width: 33%;">Clothing: N/A</td> </tr> <tr> <td>Eyes: Chemical goggles</td> <td>Respirator: N/A</td> <td>Other: Eye wash station</td> </tr> </table>	Gloves: Solvent resistant	Footwear: N/A	Clothing: N/A	Eyes: Chemical goggles	Respirator: N/A	Other: Eye wash station
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Recommended Engineered Controls: Use with adequate ventilation. Local exhaust recommended.	Leak & Spill Procedures: Evacuate area, avoid vapours, contain spill. Mop or absorb material and collect to a closed container for disposal.	Waste Disposal Methods: According to federal, provincial and municipal regulations.	Special Handling Procedures: Avoid skin contact, do not breath vapours. Store in a cool, dry, well ventilated area. Vapours will collect in low areas.
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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. Contact a physician or poison centre immediately .
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 8, 2010	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.