

SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS) N/D=Not Determined N/A=Not Applicable

Product: GLASS CLEANER CONCENTRATE	Manufacturer: ESTEAM	Flammability: 0
Chem. Name: N/A	Trade Name: Glass cleaner	Reactivity: 0
Chem. Family: Mixture	Use: Glass cleaner	Health: 2
		Protection:

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

HAZARDOUS INGREDIENTS	CAS #	% WT	HAZARD DATA	EXPOSURE LIMITS (TLV)
Monoethanolamine	141-43-5	0.1-1	LD50 1720 mg/kg (oral-rat)	3 ppm
2-Butoxyethanol	111-76-2	5-15	LD50 1746 mg/kg (oral-rat)	25 ppm TWA
Ammonia	1336-21-6	5-15	LD50 350 mg/kg (oral-rat)	25 ppm

PHYSICAL DATA				Freeze/Thaw
Physical State: Liquid	Boiling Point (C): 100	Solubility in Water: 100%	Evaporation Rate: N/D	Stable: Yes
Odor: Blue, ammonia	Freezing Point (C): 0	Ph (undiluted): 12.0	Specific Gravity: N/D	Percent Volatile (vol): N/D
Appearance: odor				Vapor Pressure: N/D

FIRE & EXPLOSION HAZARD		Conditions:
Flammability: N	Hazardous Combustion Products:	N/A
Means of Extinction: Water or foam	Upper Explosion Limit (% by vol): N/D	
Special Procedures: N/A	Lower Explosion Limit (% by vol): N/D	
Explosion Sensitivity to Impact: N/A	Auto-ignition: N/D	
Chemical Sensitivity to Static Discharge: N/D	Rate of Burning: N/D	TDG/WHMIS: Non hazardous / D2B, E
Flashpoint (C) & Method: N/D	Explosive Power: N/D	

REACTIVITY DATA	Chemical Stability:
Hazardous Decomposition Product: Oxides. May be toxic.	Stable
Incompatible Substances: Oxidizing agents	

TOXICOLOGICAL PROPERTIES		
Route of Entry - Skin Contact: Y	Reproductive Effects Y/N: N/D	Effects of Overexposure: Acute Effects: May cause eye irritation. May cause nausea, diarrhea, vomiting if ingested. Inhalation may be irritating. Chronic Effects: May cause defatting dermatitis with prolonged exposure.
Route of Entry - Skin Absorption: N	Carcinogenicity Y/N: N/D	
Route of Entry - Eye Contact: Y	Mutagenicity Y/N: N/D	
Route of Entry - Inhalation: Y	Teratogenicity Y/N: N/D	
Route of Entry - Ingestion: Y	TLV: N/D	

PREVENTATIVE MEASURES
Gloves: Rubber Eyes: Chemical glasses Footwear: N/A Respirator: N/A Clothing: N/A Other: Eye wash fountain

Recommended Engineered Controls: Use with adequate ventilation.	Leak & Spill Procedures: Mop up excess, flush with water to a sanitary sewer.	Waste Disposal Methods: According to federal, provincial and municipal regulations.	Special Handling Procedures: Industrial use.
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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: Immediately rinse mouth and throat thoroughly with water. Call a physician.
Eye Contact: Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.
Skin Contact: Immediately flush skin with running water for at least 15 minutes. Launder clothing before reuse. If irritation persists get medical attention.

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.