

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**Physical State:** Liquid**Boiling Point (C):** 100**Solubility in Water:** 100%**Evaporation Rate:** N/D**Freeze/Thaw****Stable:** Yes**Percent Volatile (vol):** N/D**Odor/Appearance:** Blue, ammonia odor**Freezing Point (C):** 0**Ph (undiluted):** 12.0**Specific Gravity:** N/D**Vapor Pressure:** N/D**FIRE & EXPLOSION HAZARD****Flammability:** N**Means of Extinction:** Water or foam**Special Procedures:** N/A**Explosion Sensitivity to Impact:** N/A**Chemical Sensitivity to Static Discharge:** N/D**Flashpoint (C) & Method:** N/D**Conditions:** N/A**Hazardous Combustion Products:****Upper Explosion Limit (% by vol):** N/D**Lower Explosion Limit (% by vol):** N/D**Auto-ignition:** N/D**Rate of Burning:** N/D**Explosive Power:** N/D**TDG/WHMIS:** Non hazardous / D2B, E**REACTIVITY DATA****Chemical Stability:** Stable**Hazardous Decomposition Product:** Oxides. May be toxic.**Incompatible Substances:** Oxidizing agents**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: Y**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 eye irritation. May cause nausea, diarrhea, vomiting if ingested. Inhalation may be irritating.

Chronic Effects:

May cause defatting dermatitis with prolonged exposure.

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.

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

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.