

SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined

N/A=Not Applicable

Product: GLASS CLEANER RTU

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

Freezing Point (C): 0

Ph (undiluted): 11.1

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

Prep./Revised Date: January 15, 2015

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.