

SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined

N/A=Not Applicable

Product: CITRUS CLEANER RTU

Manufacturer: ESTEAM

Flammability: 1

Chem. Name: N/A

Trade Name: Citrus RTU

Reactivity: 0

Chem. Family: Mixture

Use: All purpose cleaner/degreaser

Health: 1

Protection:

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

HAZARDOUS INGREDIENTS

CAS

% WT

HAZARD DATA

EXPOSURE LIMITS (TLV)

D-limonene

5989-27-5

15-30

LD50 4400 mg/kg (oral-rat)

N/A

2-Butoxyethanol

111-76-2

15-30

LD50 1746 mg/kg (oral-rat)

25 ppm / TWA

Monoethanolamine

141-43-5

1-5

LD50 1720 mg/kg (oral-rat)

N/A

PHYSICAL DATA

Physical State: Liquid

Boiling Point (C): 176

Solubility in Water: Complete

Evaporation Rate: N/D

Freeze/Thaw Stable: Yes

Odor/Appearance: Citrus/ Orange

Freezing Point (C): N/D

Ph (undiluted): 10.8

Specific Gravity: N/D

Percent Volatile (vol): N/D

Vapor Pressure: N/D

FIRE & EXPLOSION HAZARD

Flammability: Yes

Means of Extinction: CO2, dry chemical, foam

Special Procedures: Water to cool containers

Explosion Sensitivity to Impact: N/D

Chemical Sensitivity to Static Discharge: N/D

Flashpoint (C) & Method: N/D

Conditions: N/D

Hazardous Combustion Products: Smoke, oxides of carbon (CO, CO2)

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 / B2, D2B

REACTIVITY DATA

Chemical Stability: Stable

Hazardous Decomposition Product: CO, CO2

Incompatible Substances: Strong 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:

Irritation upon direct contact. Vapors may irritate.

Chronic Effects:

Prolonged or repeated contact with skin may cause defatting resulting in dermatitis.

PREVENTATIVE MEASURES

Gloves: Rubber

Footwear: N/A

Clothing: N/A

Eyes: Chemical glasses

Respirator: N/A

Other: N/A

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:

Keep container closed when not in use. Keep away from children.

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. Call a physician.

Skin Contact: Immediately flush skin with running water for at least 15 minutes. Launder clothing before reuse. Call a physician if irritation persists.

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.