

# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined

N/A=Not Applicable

**Product:** CITRUS CLEANER CONCENTRATE**Manufacturer:** ESTEAM**Flammability:** 2**Chem. Name:** N/A**Trade Name:** Citrus Cleaner Concentrate**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):** 11.5**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 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.