

# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined

N/A=Not Applicable

**Product:** TANNIN REMOVER**Manufacturer:** ESTEAM**Flammability:** 0**Chem. Name:** N/A**Trade Name:** Tannin remover**Reactivity:** 0**Chem. Family:** Mixture**Use:** Coffee and tea stain remover for carpets**Health:** 1**Protection:**

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

**HAZARDOUS INGREDIENTS**Alkyl Dimethyl Benzyl Ammonium  
Chloride  
Acetic Acid**CAS #**68424-85-1  
64-19-7**% WT**1-5  
1-5**HAZARD DATA**Acute oral LD50 (rat) 404 mg/kg  
LD50 3310 mg/kg (oral-rat)**EXPOSURE LIMITS (TLV)**N/D  
10 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):** 0%**Odor/Appearance:** Cloudy liquid,**Freezing Point (C):** 0**Ph (undiluted):** 4.5**Specific Gravity:** N/D**Vapor Pressure:** N/D**FIRE & EXPLOSION HAZARD****Flammability:** N**Means of Extinction:****Special Procedures:** N/A**Explosion Sensitivity to Impact:** N/A**Chemical Sensitivity to Static Discharge:** N/A**Flashpoint (C) & Method:** N/A**Conditions:** N/A**Hazardous Combustion Products:** N/A**Upper Explosion Limit (% by vol):** N/A**Lower Explosion Limit (% by vol):** N/A**Auto-ignition:** N/A**Rate of Burning:** N/A**Explosive Power:** N/A**TDG/WHMIS:** Non hazardous / D2B**REACTIVITY DATA****Chemical Stability:** Stable**Hazardous Decomposition Product:** None**Incompatible Substances:** None**TOXICOLOGICAL PROPERTIES****Route of Entry - Skin Contact:** Y  
**Route of Entry - Skin Absorption:** N  
**Route of Entry - Eye Contact:** Y  
**Route of Entry - Inhalation:** N  
**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 irritation if inhaled. Will cause irritation of membranes of mouth and throat. Nausea, abdominal pain, vomiting, diarrhea and headache may result. Will cause eye irritation.

**Chronic Effects:**

Frequent or prolonged exposure may cause defatting of the skin resulting in dermatitis.

**PREVENTATIVE MEASURES****Gloves:** N/A**Eyes:** N/A**Footwear:** N/A**Respirator:** Organic vapour is recommended**Clothing:** N/A**Other:** N/A**Recommended Engineered Controls:**

Use with adequate ventilation.

**Leak & Spill Procedures:**

Soak up with absorbent material and flush area to a sanitary sewer.

**Waste Disposal Methods:**

According to federal, provincial and municipal regulations.

**Special Handling Procedures:**

Avoid eye contact. Avoid breathing vapours.

**FIRST AID MEASURES****Inhalation:** Move person to fresh air. If necessary give artificial respiration or oxygen. Call a doctor if in distress.**Ingestion:** Contact a physician. Give two glasses of water.**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Contact a physician if irritation persists.**Skin Contact:** Wash skin with soap and water. Contact 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.