

# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

N/D=Not Determined  
N/A=Not Applicable

**Product:** BLOOD REMOVER

**Chem. Name:** Mixture

**Chem. Family:** N/A

**Manufacturer:** ESTEAM

**Trade Name:** Blood Remover

**Use:** Blood stain remover for soft fiber

**Flammability:** 0

**Reactivity:** 0

**Health:** 2

**Protection:**

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

## HAZARDOUS INGREDIENTS

Ammonium Hydroxide

**CAS #**

1336-21-6

**% WT**

1-8

**HAZARD DATA**

LD50 350 mg/kg (oral-rat)

**EXPOSURE LIMITS (TLV)**

25 ppm

## PHYSICAL DATA

**Physical State:** Liquid

**Odor/Appearance:** Clear liquid

**Boiling Point (C):** >100C

**Freezing Point (C):** 0 C

**Solubility in Water:** 100%

**Ph (undiluted):** 11.3

**Evaporation Rate:** N/D

**Specific Gravity:** >1

**Freeze/Thaw**

**Stable:** Yes

**Percent Volatile (vol):** N/D

**Vapor Pressure:** N/D

## FIRE & EXPLOSION HAZARD

**Flammability:** N

**Means of Extinction:** Water

**Special Procedures:** Avoid vapors if material overheated

**Explosion Sensitivity to Impact:** N/A

**Chemical Sensitivity to Static Discharge:** N/A

**Flashpoint (C) & Method:** None

**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, E

## REACTIVITY DATA

**Chemical Stability:** Stable

**Hazardous Decomposition Product:** Ammonia compounds

**Incompatible Substances:** Strong acids

## 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  
**Carcinogenicity Y/N:** N  
**Mutagenicity Y/N:** N  
**Teratogenicity Y/N:** N/D  
**TLV:** N/D

**Effects of Overexposure:**

**Acute Effects:**

May cause eye and skin irritation on contact. May cause discomfort or diarrhea. Inhalation may cause dizziness and unconsciousness.

**Chronic Effects:**

Prolonged or frequent exposure may cause dermatitis.

## PREVENTATIVE MEASURES

**Gloves:** Rubber  
**Eyes:** Safety glasses

**Footwear:** N/A  
**Respirator:** N/A

**Clothing:** N/A  
**Other:** None

### Recommended Engineered Controls:

General ventilation is normally sufficient except where large quantities are being used.

### Leak & Spill Procedures:

Flush area with water to a sanitary sewer.

### Waste Disposal Methods:

According to federal, provincial and municipal regulations.

### Special Handling Procedures:

Keep from freezing, keep away from acids. Store below 40 C.

## FIRST AID MEASURES

**Inhalation:** Move person to fresh air. If necessary give artificial respiration or oxygen. Call doctor if in distress.

**Ingestion:** Contact a physician.

**Eye Contact:** Immediately flush eyes with running water for at least 15 minutes. Call a physician.

**Skin Contact:** Wash thoroughly with cold water.

**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.