

# SUPPLIER MATERIAL SAFETY DATA SHEET (MSDS)

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

**Product:** Encap EC

**Manufacturer:** ESTEAM

**Flammability:** 0

**Chem. Name:** N/A

**Trade Name:** Encap EC

**Reactivity:** 0

**Chem. Family:** Mixture

**Use:** Bonnet Cleaner

**Health:** 1

**Protection:**

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

## HAZARDOUS INGREDIENTS

Sodium Carbonate  
Ammonium Salt

### CAS #

497198  
184179-24-6

### % WT

1%  
1-5%

### HAZARD DATA

LD50 4090 mg/kg (oral-rat)  
N/D

### EXPOSURE LIMITS (TLV)

N/D  
N/D

## PHYSICAL DATA

**Physical State:** Liquid

**Boiling Point (C):** 100

**Solubility in Water:** 100 %

**Evaporation Rate:** N/D

**Odor/ Appearance:** Clear to amber

**Freezing Point (C):** 0

**Ph (undiluted):** 9.5

**Specific Gravity:** N/D

### Freeze/Thaw

**Stable:** Yes

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

**Vapor Pressure:** N/D

## FIRE & EXPLOSION HAZARD

**Flammability:** N

**Means of Extinction:** Water fog, Alcohol foam, dry chemical

**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:** Carbon Monoxide, Carbon Dioxide

**Incompatible Substances:** None known

## TOXICOLOGICAL PROPERTIES

**Route of Entry - Skin Contact:** N  
**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:

Irritant to eyes and skin, irritating to respiratory tract. Ingestion may cause damage to the mucous membranes, mouth and digestive system.

#### Chronic Effects:

Prolonged and repeated exposure can cause drying, defatting and dermatitis.

## PREVENTATIVE MEASURES

**Gloves:** Rubber gloves

**Footwear:** N/A

**Clothing:** N/A

**Eyes:** Safety glasses

**Respirator:** N/A

**Other:** N/A

### Recommended Engineered Controls:

No special procedures.

### Leak & Spill Procedures:

Flush to a sanitary drain with water.

### Waste Disposal Methods:

According to federal, provincial and municipal regulations.

### Special Handling Procedures:

Store in a cool dry place.

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

**Prep./Revised Date:** May 1, 2007

**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.