

EMSEAL JOINT SYSTEMS LTD

25 Bridle Lane
Westborough, MA 01581-1228
PH: 508-836-0280, FX: 508-836-0281

**EMSEAL LLC**

120 Carrier Drive
Toronto, ON Canada M9W 5R1
PH : 416-740-2090, FX : 416-740-0233

www.emseal.com

MATERIAL SAFETY DATA SHEET

PRODUCT: **EMCRETE PART B**

MSDS DATE: 2011/01/25

TRADE NAME: POLYURETHANE

HMIS CODES:

0 = NONE ... 4 = EXTREME

HEALTH : 2

CHRONIC INDICATOR: *

FIRE : 1

REACTIVITY: 1

PERSONAL PROTECTION: B

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: EMCRETE B

Manufacturer: EMSEAL JOINT SYSTEMS LTD
Address: 25 Bridle Lane
Westborough, MA 01581

Phone: 508-836-0280
Fax: 508-836-0281
CHEMTREC EMERGENCY PHONE: 800-424-9300
CHEMTREC INTERNATIONAL PHONE: 703-527-3887

SECTION 2: HAZARDOUS INGREDIENTS / SARA III INFORMATION

REPORTABLE COMPONENTS:**AMINE POLYOL MIXTURE**

CAS NUMBER PROPRIETARY
WEIGHT PERCENTAGE >85

1, 4 - BUTANEDIOL

CAS NUMBER 110-63-4
VAPOR PRESSURE <0.76 mm HG @ 20° C
WEIGHT PERCENTAGE 1.0 to 5.0

SARA 313: * Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.

SECTION 3: PHYSICAL / CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR: Black Liquid Mild Odor

SOLIDS IN WEIGHT %: 100

WEIGHT PER GALLON: 8.84 lb/gal

SPECIFIC GRAVITY (H₂O=1): 1.062

BOILING RANGE: >300° F

EVAPORATION RATE: Nil

VAPOR DENSITY: No Data

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Section 3 continued:

VOLATILE ORGANIC COMPOUND (V.O.C.): 0 grams/liter (Part-B only)*

*Note: Part-B constitutes 13% of an as-applied unit of EMCRETE by weight. EMCRETE per **as-applied** unit, including resins, aggregates and primer, contains **35.35 grams/liter of V.O.C.**

SECTION 4: FIRE AND EXPLOSION HAZARD

OSHA FLAMMABILITY CLASS: Not regulated, Class IIIB
FLASH POINT: >390° F METHOD USED: NA
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER (LEL): No Data UPPER (UEL): No Data

EXTINGUISHING MEDIA: Foam, Carbon Dioxide or Dry Chemical

SPECIAL FIREFIGHTING PROCEDURES: Wear positive pressure self-contained NOISH approved breathing equipment. .

UNUSUAL FIRE AND EXPLOSION HAZARDS: Sealed container may rupture. Keep cool with water.

SECTION 5: REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Mixture with or exposure to incompatible materials (see below.)

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents Strong acids

HAZARDOUS DECOMPOSITION BYPRODUCTS: Carbon monoxide Carbon dioxide Oxides of nitrogen

SECTION 6: HEALTH HAZARD DATA

HEALTH HAZARDS (ACUTE AND CHRONIC): Liquid contact with eyes or skin may cause irritation. Vapors/mists may cause eye and respiratory irritation.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air.

EYE CONTACT: Flush with water for 15 minutes with lids open. Seek medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash affected area with soap and water.

CARCINOGENICS: No carcinogenic substances as defined by IARC, NTP, or OSHA.

NTP CARCINOGEN: No **IARC MONOGRAPHS:** No **OSHA REGULATED:** No

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SECTION 7: PROCEDURES FOR SAFE HANDLING AND USE / SPILLS / DISPOSAL

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in a cool, dry place with adequate ventilation. Do not breathe vapors or mists. Do not get liquid in eyes, on skin or on clothing.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Ventilate area. Spill area will be slippery. Contain spill. Recover as much as possible for reuse. Spread commercial absorbant over remainder and place into sealed containers for disposal.

WASTE DISPOSAL METHOD: Dispose in accordance with local, state and federal regulations. Most states prohibit disposal of liquids in landfills.

OTHER PRECAUTIONS: As with all chemicals, good industrial hygiene and proper work habits should be observed.

SECTION 8: PERSONAL PROTECTION RECOMMENDATIONS

RESPIRATORY PROTECTION:

For confined areas or areas with poor ventilation, use a organic vapors cartridge type respirator. Avoid inhaling the vapors in the headspace of containers.

VENTILATION: Mechanically exhaust vapors at point(s) of application. If applicable, maintain airborne contaminant levels of chemicals below their recommended TLV's. (See Section 2)

PROTECTIVE GLOVES: Impervious.

EYE PROTECTION: Splash Goggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: No Data

WORK/HYGIENIC PRACTICES: Wash thoroughly before eating or smoking.

SECTION 9: DISCLAIMER

It is a violation of federal law to use this product in a manner inconsistent with its labeling. The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Since the use of this information, these opinions and the conditions of use of the product are not within the control of the EMSEAL, it is the user's obligation to determine the conditions of safe use of the product. .

TRANSPORTATION INFORMATION

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US DOT: UN3082, Environmentally Hazardous Substances, LIQUID, N.O.I. (Contains dimethylthiotoluenediamine), 9, III, LTD QTY