

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: **EMPRIME**

MSDS DATE: 2011/01/25

TRADE NAME: **EMCRETE PRIMER**

HMIS CODES:

0 = NONE ... 4 = EXTREME

HEALTH : 2

CHRONIC INDICATOR: *

FIRE : 3

REACTIVITY: 1

PERSONAL PROTECTION: H

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **EMPRIME**

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:*** TOLUENE**

CAS NUMBER 108-88-3
VAPOR PRESSURE 22 mm HG @ 68 F
WEIGHT PERCENTAGE 50 to 85
OSHA PEL: TWA = 200 PPM : CEILING = 300 PPM
OSHA VPEL: TWA = 100 PPM : STEL = 150 PPM
ACGIH TLV: TWA (SKIN) = 50 PPM : STEL (SKIN) = 150 PPM

*** 4,4'-DIPHENYLMETHANE DIISOCYANATE**

CAS NUMBER 101-68-8
VAPOR PRESSURE <.00001 mm HG @ 77 F
WEIGHT PERCENTAGE 15 to 50
OSHA: CEILING = .02 ppm
ACGIH: TWA = .005 ppm

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

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SECTION 3: PHYSICAL / CHEMICAL CHARACTERISTICS

APPEARANCE AND ODOR: Dark Brown Liquid Solvent Odor

SOLIDS IN WEIGHT %: No Data

WEIGHT PER GALLON: 8.006 lb/gal

SPECIFIC GRAVITY (H₂O=1): .961

BOILING RANGE: >212°F

EVAPORATION RATE: No Data

VAPOR DENSITY: Heavier than air

VOLATILE ORGANIC COMPOUNDS (V.O.C.): 575 grams/liter (EMPRIME only)*

*Note: EMPRIME constitutes **0.55%** of an as-applied unit of EMCRETE by weight and is shipped in pint or quart containers. 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: Flammable Liquid, Class 1B

FLASH POINT: 45°F METHOD USED: ASTM D-93

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. Wear full protective clothing.

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

SECTION 5: REACTIVITY DATA

STABILITY: Stable

HAZARDOUS POLYMERIZATION: May occur Contact with moisture, other materials which react with isocyanates, or temperatures above 400°F (204°C), may cause polymerization.

CONDITIONS TO AVOID: Mixture with or exposure to incompatible materials (see below.) Avoid heat, sparks, flame and contact with strong oxidizing agents, strong lewis or mineral acids, and strong mineral and organic bases.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong bases Water Amines Alcohols
Will cause some corrosion to copper alloys and aluminum.

HAZARDOUS DECOMPOSITION BYPRODUCTS: Carbon monoxide Carbon dioxide Oxides of nitrogen Traces of Hydrogen Cyanide

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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. Exposure to isocyanates may result in allergic respiratory or skin reaction.

EMERGENCY AND FIRST AID PROCEDURES:**INHALATION: Remove to fresh air. Seek medical attention.**

Asthmatic-type symptoms may develop immediately or be delayed up to several hours.

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:** Yes **OSHA REGULATED:** Yes

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Store in tightly closed containers to prevent moisture contamination. Before resealing it is best to blanket the headspace of the container with inert gas or very dry air. If moisture contamination is suspected, do not reseal the container, as pressure build up may occur.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment, including respiratory protection during clean-up. Absorb spilled isocyanates with sawdust or other commercial absorbent. Shovel into suitable unsealed containers and arrange for appropriate disposal.

WASTE DISPOSAL METHOD:

Dispose in accordance with local, state and federal regulations. Most states prohibit disposal of liquids in landfills. Incineration is the preferred method.

OTHER PRECAUTIONS:

As with all chemicals, good industrial hygiene and proper work habits should be observed. Avoid contact with liquid, vapors and mists.

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SECTION 8: PERSONAL PROTECTION RECOMMENDATIONS

RESPIRATORY PROTECTION:

Maintain exposure below levels specified in Section 2 of this MSDS. Some chemicals have poor warning properties since the odor at which they can be detected is substantially higher than the OSHA PEL. An approved (NIOSH) positive pressure air-supplied respirator is required whenever concentrations are not known or exceed the STEL or Ceiling Limit or exceed the TWA. Emergency situations may require the use of positive pressure self-contained breathing apparatus. Supplied air respirators or SCBA may be necessary during certain operations if exposure limits cannot be controlled.

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: Chemically resistant outer clothing or apron.

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

US DOT: UN1263 PAINT RELATED MATERIAL (Toluene), 3, II