

Manufactured by:
TENNANT
701 North Lilac Drive
P.O. Box 1452
Minneapolis, MN 55440-1452

MATERIAL SAFETY DATA SHEET

Eco-Flex™ - Part B

Flexible Epoxy



EMERGENCY PHONE NUMBERS:

CHEMTREC: (800) 424-9300 (24 hrs)
CANADA: CANUTEC (613) 996-6666 (24 hrs)

District of Columbia: (202) 483-7616 (24 hrs)
MSDS Requests: (800) 553-8033

PREPARATION INFO:

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This Material Safety Data Sheet (MSDS) has been prepared in compliance with the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200. The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.

Issue Date:	May 18, 2010	HAZARD RATING	NFPA	HMS	NFPA	HMS	4 = Extreme	3 = High	0 = Insignificant
Supersedes:	April 30, 2007	Health	3	3	Reactivity	0	2 = Moderate	1 = Slight	COR = Corrosive
Printed:	12/28/2010	Fire	1	1	Special	COR	X		X = Ask supervisor for guidance.

***** I. IDENTIFICATION *****

PRODUCT NAME: Eco-Flex™ - Part B
Flexible Epoxy

US DEPT OF TRANSPORTATION (GROUND):

UN#: UN3267 **PACKAGING GROUP:** II

PART NUMBER: 9003639, 9003642

HAZARD CLASSIFICATION: Corrosive

CHEMICAL FAMILY: Aliphatic Amine

SHIPPING NAME: Corrosive Liquid, Basic, Organic, N.O.S.

MATERIAL USE: Epoxy Curing Agent for Eco-Flex™

(contains Aliphatic Amines)

***** II. PHYSICAL DATA *****

BOILING POINT:	430°F / 221°C	FREEZE POINT:	Not Available / Not Available
DENSITY:	1.0 kg/L	% VOLATILE:	0 by wt
SOLUBILITY IN WATER:	Appreciable	VAPOR PRESSURE:	Not Available mm Hg at 20 °C.
ODOR THRESHOLD:	Not Available	pH:	Not Applicable
PHYSICAL FORM:	Liquid	VAPOR DENSITY:	Not Available THAN AIR
APPEARANCE AND ODOR:	Light Yellow/Ammonia	COEFFICIENT WATER/OIL DISTRIBUTION:	Not Available
EVAPORATION RATE:	Not Available THAN N-BUTYL ACETATE	VOC g/L (lb/gal):	0 (0.00)
MECHANICAL IMPACT:	Not Available	STATIC DISCHARGE:	Not Available

***** III. INGREDIENTS *****

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory. Hazardous ingredients, defined as Controlled Products by Canadian WHMIS, are identified by (HZD) after the chemical ingredient. This product has been classified in accordance with the hazard criteria of the CPR (Controlled Products Regulations) and the MSDS contains all of the information required by the CPR.

<u>CHEMICAL</u>	<u>CAS #</u>	<u>% W</u>	<u>OSHA PEL</u> <u>ppm</u>	<u>ACGIH TLV</u> <u>TWA ppm</u>	<u>ACGIH TLV</u> <u>STEL ppm</u>	<u>LD50</u>	<u>LC50</u> <u>INHALATION</u>
Aliphatic Ether Amine (HZD)	9046-10-0	40-50	Not Available	Not Available	Not Available	2880 mg/kg (oral rat) 2980 mg/kg (skin rabbit)	Not Available
Benzyl Alcohol (HZD)	100-51-6	20-30	Not Available	Not Available	Not Available	1230-3100 (oral rat) 2000 mg/kg (skin rabbit)	1000 ppm (8hr rat)
Aliphatic Amine	3236-54-2	1-5	Not Available	Not Available	Not Available	910 mg/kg (oral rat)	0.5 mg/L (48 hours fish)
Aliphatic Amine	3236-53-1	1-5	Not Available	Not Available	Not Available	910 mg/kg (oral rat)	0.5 mg/L (48 hours fish)
Bisphenol A (HZD)	80-05-7	10-20	5 mg/m ³	Not Available	Not Available	3000 mg/kg (skin rabbit) 4100 mg/kg (oral male rat) 3300 mg/kg (oral female rat)	Not Available

SARA Title III Section 313 Information: Components present in this product at a level which could require reporting under this statute are:

Bisphenol A (HZD) CAS# 80-05-7 19.68% by wt.

California Proposition 65 Information: This product contains the following chemicals designated as cancer and/or reproductive hazards under California Proposition 65.

None

***** IV. FIRE AND EXPLOSIVE HAZARD DATA *****

FLAMMABLE: No **FLASH POINT:** >200°F / >93°C Setflash
FLAMMABLE LIMITS: % LEL: Not Available % UEL: Not Available **AUTOIGNITION TEMPERATURE** Not Available / Not Available
EXTINGUISHING MEDIA: Use water spray, dry chemical, foam or carbon dioxide. Water or foam may cause frothing.
SPECIAL FIRE FIGHTING PROCEDURES:
Use water spray to keep fire-exposed containers cool. Wear self-contained breathing apparatus; wear goggles if eye protection is not provided.
UNUSUAL FIRE EXPLOSION HAZARD:
Keep containers tightly closed. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces.

***** V. REACTIVITY DATA *****

STABILITY: Stable **HAZARDOUS POLYMERIZATION (May Occur/Will Not Occur):** Will Not
CONDITIONS TO AVOID: Excessive heat.
INCOMPATIBILITY (materials to avoid): Strong acids and oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Ammonia, carbon dioxide, carbon monoxide and nitrogen oxides.

***** VI. HEALTH HAZARD DATA *****

EFFECTS OF OVEREXPOSURE: **THRESHOLD LIMIT VALUE - See Section III for individual ingredients.**
PRIMARY ROUTES OF ENTRY: Inhalation & Skin Contact
SKIN CONTACT/ABSORPTION: Corrosive; may cause severe irritation, redness, blister formation and/or possible tissue destruction.
EYE CONTACT: Extremely irritating with possible permanent eye injury. During application of this product, contact lenses should NOT be worn.
INGESTION (Swallowing):
Causes burning of mouth, throat and stomach with abdominal and chest pain, nausea, vomiting, diarrhea, thirst, weakness and collapse. Aspiration may occur during swallowing or vomiting, resulting in lung damage.
INHALATION (Breathing):
Under normal product use, inhalation exposure should be minimal. Contains materials which have the potential to cause headaches, nausea, dizziness and respiratory tract irritation upon inhalation of vapors heated to high temperatures.
SUPPLEMENTAL HEALTH INFORMATION:
All ingredients are NOT carcinogenic, based on the International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP). Chronic skin contact may cause a persistent irritation or dermatitis.

***** VII. EMERGENCY AND FIRST AID PROCEDURES *****

SKIN CONTACT: IMMEDIATELY wash exposed areas with soap and water for 15 minutes. Seek medical attention if irritation develops and persists. Wash clothing before reuse.
EYE CONTACT: Flush immediately with water for 15 minutes; CALL A PHYSICIAN.
INGESTION (Swallowing): Aspiration of material into the lungs may cause chemical pneumonitis (damage to lungs) which may be fatal. If swallowed, do NOT induce vomiting. Have victim drink 8-10 ounces of water to dilute material in stomach. If vomiting occurs, give fluids again. GET MEDICAL ATTENTION IMMEDIATELY. Never give anything by mouth to an unconscious person.
INHALATION (Breathing): In case of exposure to high concentrations of vapors, remove to fresh air. Restore breathing, if necessary. If breathing difficulty persists or occurs later, consult a physician.

***** VIII. PREVENTIVE MEASURES *****

SPILL OR LEAK PROCEDURES **STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**
Keep spectators away. Floor may be slippery; use care to avoid falling. Dike and contain the spill with inert material (sand, earth, fuller's earth, etc.) and if appropriate, transfer the liquid and solid diking material to separate containers for recovery or disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Wash clothing before reuse. Keep spill out of all sewers and open bodies of water.
WASTE DISPOSAL METHOD: Dispose of all excess material, packaging and other waste in accordance with federal, state and local regulations.
SPECIAL PROTECTION INFORMATION
RESPIRATORY PROTECTION and VENTILATION:
Use with adequate ventilation. Where ventilation is inadequate, wear a chemical respirator approved for organic vapors. Use NIOSH 42 CFR 84 approved respirator.
Local exhaust recommended to control employee exposure.
PROTECTIVE GLOVES (specify type): **EYE PROTECTION (specify type)**
Impervious gloves; i.e., rubber Chemical splash goggles
SKIN PROTECTION: Protective clothing, such as uniforms or coveralls and protective gloves. Launder clothing when soiled.
SPECIAL PRECAUTIONS: **PRECAUTIONS TO BE TAKEN IN HANDLING OR STORAGE:**
Store inside in a cool (below 100°F or 37.5°C), dry place.
OTHER PRECAUTIONS: Do not take internally. Avoid prolonged contact with skin; contaminated clothing should be removed immediately. Avoid free fall of liquid in excess of a few inches.