

Manufactured by:  
**TENNANT**  
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# MATERIAL SAFETY DATA SHEET

## Eco-LTS™ - Part B Water-Based Epoxy Coating



### 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: June 28, 2011	<b>HAZARD RATING</b>	<b>NFPA</b>	<b>HMS</b>	<b>NFPA</b>	<b>HMS</b>	4 = Extreme	3 = High	0 = Insignificant
Supersedes: September 18, 2008	Health	2	2	Reactivity	0	2 = Moderate	1 = Slight	COR = Corrosive
Printed: 7/13/2011	Fire	1	1	Special	0			X = Ask supervisor for guidance.

### \*\*\*\*\* I. IDENTIFICATION \*\*\*\*\*

**PRODUCT NAME:** Eco-LTS™ - Part B  
 Water-Based Epoxy Coating

**PART NUMBER:** 08527B

**CHEMICAL FAMILY:** Aliphatic Amine

**MATERIAL USE:** Waterborne Epoxy Curing Agent

**US DEPT OF TRANSPORTATION (GROUND):**

**UN#:** None Allocated      **PACKAGING GROUP:** Not Applicable

**HAZARD CLASSIFICATION:** Non Regulated

**SHIPPING NAME:** Not Applicable

### \*\*\*\*\* II. PHYSICAL DATA \*\*\*\*\*

**BOILING POINT:** Not Available / Not Available      **FREEZE POINT:** 32°F. / 0°C.

**DENSITY:** 1.01 kg/L      **% VOLATILE:** 89 by wt

**SOLUBILITY IN WATER:** Complete      **VAPOR PRESSURE:** Not Available      mm Hg at 20 °C.

**ODOR THRESHOLD:** Not Available      **pH:** 9.5

**PHYSICAL FORM:** Liquid      **VAPOR DENSITY:** Heavier THAN AIR

**APPEARANCE AND ODOR:** Light yellow/Mild odor      **COEFFICIENT WATER/OIL DISTRIBUTION:** Not Available

**EVAPORATION RATE:** Slower THAN N-BUTYL ACETATE      **VOC g/L (lb/gal):** 86 (0.72)

**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 ppm</u>	<u>ACGIH TLV TWA ppm</u>	<u>ACGIH TLV STEL ppm</u>	<u>LD50</u>	<u>LC50 INHALATION</u>
Tris-2,4,6-(Dimethylaminomethyl) Phenol (HZD)	90-72-2	1-5	Not Available	Not Available	Not Available	1670 mg/kg (oral rat) 1400 mg/kg (skin rabbit)	249 mg/L (24 hr) Carp 175 mg/L (96 hr) Carp
Modified Aliphatic Amine	*	10-20	Not Available	Not Available	Not Available	>2000 mg/kg (oral rat) >2000 mg/kg (skin rat)	<=10 mg/L (fish)
Formaldehyde (HZD)	50-00-0	<1	0.75	0.75	2	100-200 mg/kg (oral rat) 270 mg/kg (skin rabbit)	Not Available
Methanol (HZD)	67-56-1	<1	200 (skin)	200 (skin)	250 (skin)	5.6 g/kg (oral rat) 20 g/kg (skin rabbit)	Not Available

\*Proprietary - Listed on TSCA C.S. Inventory

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

Methanol - CAS #67-56-1 0.4% by wt.  
 Formaldehyde - CAS #50-00-0 0.4% by wt.

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

Formaldehyde - CAS #50-00-0 0.4% by wt.

\*\*\*\*\* 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 National Fire Protection Association (N.F.P.A.) Class B extinguishers (carbon dioxide, dry chemical or foam).  
**SPECIAL FIRE FIGHTING PROCEDURES:**  
Use water spray to keep fire exposed containers cool. Use water spray to flush spills away from exposure. 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 oxidizing agents.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, formaldehyde and nitrogen oxides in varying quantities.

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

**EFFECTS OF OVEREXPOSURE:** **THRESHOLD LIMIT VALUE - See Section III for individual ingredients.**  
**PRIMARY ROUTES OF ENTRY:** Skin Contact  
**SKIN CONTACT/ABSORPTION:** Contains materials which may cause skin irritation and sensitization.  
**EYE CONTACT:** Contains materials which may cause eye irritation. During application/use of this product, contact lenses should NOT be worn.  
**INGESTION (Swallowing):**  
Contains materials which are slightly toxic.  
**INHALATION (Breathing):**  
Contains materials which have the potential for respiratory tract irritation if inhaled.  
**SUPPLEMENTAL HEALTH INFORMATION:**  
Formaldehyde is classified in IARC 2 as a probable carcinogen (human data limited, animal data sufficient) and as an anticipated carcinogen on the National Toxicology Program (NTP) list.  
All other ingredients are NOT carcinogenic, based on the International Agency for Research on Cancer (IARC) and NTP lists.

\*\*\*\*\* 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):** Give 2 glasses of water and induce vomiting. DO NOT give water if victim is unconscious or very drowsy. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.  
**INHALATION (Breathing):** Remove to fresh air. 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.  
**PROTECTIVE GLOVES (specify type):** Impervious gloves; i.e., rubber  
**EYE PROTECTION (specify type):** Chemical splash goggles  
**SKIN PROTECTION:** Impervious gloves; i.e., rubber  
**SPECIAL PRECAUTIONS:** **PRECAUTIONS TO BE TAKEN IN HANDLING OR STORAGE:**  
Store inside in a cool (below 100°F or 37.5°C), dry place. KEEP FROM FREEZING.  
**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.