

## MATERIAL SAFETY DATA SHEET

# **ECTCR Extreme-A&B**

### **SECTION 1: IDENTIFICATION DATA**

Manufactured by: CTM Adhesives Inc.

8320 Grenache Montreal, QUÉBEC CANADA H1J 1C5

Telephone: 514-321-5540

Product Name: ECTCR Extreme A

Product Use: Epoxy Resin

Prepared by: Research department

Date: January 2016

#### **SECTION 2: HAZARDOUS INGREDIENTS**

Ingredient	% by Weight	CAS Number	LD 50 (ORAL-RAT) (mg/kg)
Polymers of epichlorohydrin, phenol-formaldehyde novalac	50 - 70	28064-14-4	> 4000
2-(hydroxymethyl) furan	15 - 30	98-00-0	177

### **SECTION 3: PHYSICAL PROPERTIES**

Vapor Pressure (mm Hg):

N.A.

Boiling Point (°C):

Solubility in water:

N.A.

Freezing Point (°C):

N.A.

N.A.

N.A.

Evaporation Rate: N.A. (Butyl acetate = 1)

N.A. (Ethyl acetate = 1)

Specific Gravity (g/ml): N.A.
Volatile by Weight (%): N.A.

Color upon request

Appearance / Odour : Liquid / Mild

VOC (g/L): 343

### **SECTION 4: FIRE AND EXPLOSION HAZARD DATA**

Flash Point: 77°C (170°F)

LEL: 1.8% UEL: 16.3% Auto Ignition Point (vapours) (°C): N.A. Auto Ignition Point (solids) (°C): N.A. **Dust Explosion Potential:** N.A. Sensitivity to Mechanical Impact: N.A.

Special Fire Fighting Procedures: Self-contained breathing apparatus and protective clothing

Unusual Fire and Explosion Hazards: Incomplete combustion can form CO and low molecular

weight hydrocarbons, phenol and water.

Extinguishing Media: CO<sub>2</sub>, foam, water spray, dry chemical. DO NOT USE water

Yes

#### **SECTION 5: HEALTH HAZARD DATA**

Sensitivity to Static Discharge:

Ingestion: May be fatal if swallowed

Absorption: Harmful if absorbed through the skin

Inhalation: Harmful by inhalation Skin Contact: Irritating to the skin Eye Contact: Irritating to the eyes

Flammability: Combustible Liquid

Overexposure symptoms:

Irritation, dermatitis, rash, watering of the eyes

**Entry Route:** Ingestion, eye and skin contact, inhalation.

Chronic Effects: Can cause target organ damage.

May cause damage to the following organs: upper respiratory tract, skin, eyes, Target organs:

central nervous system (CNS).

Toxic synergistic

materials:

None known.

#### WHMIS Classification:

Class B3: Combustible Liquid

Class D1A: Toxic: Material causing immediate and serious toxic effects

Class D2B: Toxic: Material causing other toxic effects





## **SECTION 6: REACTIVITY DATA**

Stability: Stable under normal conditions

Materials to avoid: Strong oxidizers, strong alkalis, strong mineral acids, amines. Avoid all

possible sources of ignition (spark or flame)

Hazardous decomposition: Carbon dioxide, carbon monoxide

#### **SECTION 7: SPILL OR LEAK PROCEDURES**

Steps to be taken in case material is released or spilled:

Soak up all liquid with absorbent material. Package absorbed material in steel containers which are leak proof.

#### Waste disposal method:

Dispose in accordance with municipal regulations for hazardous waste disposal.

#### **SECTION 8: SPECIAL PROTECTION INFORMATION**

Respiratory Protection: NIOSH approved respirator or equivalent.

Ventilation: Local exhaust is preferred.

Protective Gloves: Neoprene rubber, nitrile, impervious plastic.

Eye protection: Safety glasses or full face shield.

Other protection: Wear appropriate clothes (long sleeves) in order to avoid

any skin contact. Safety shower, eye bath.

#### **SECTION 9: SPECIAL PRECAUTIONS**

Precaution for handling and storing:

Store in a cool and dry location. Keep container lid tightly closed after partial use or when storing.

Other precautions:

Adequate ventilation when using. Avoid skin contact.

#### **SECTION 10: FIRST AID**

Ingestion: Wash mouth with water. Do not induce vomiting unless directed by a physician.

Never give anything by mouth to an unconscious person. Call a physician or poison

control center immediately.

Inhalation: Remove patient to fresh air. Give mouth to mouth if patient is not breathing. Call a

physician or poison control center immediately.

Contact: Rinse with soapy water for a minimum of 20 minutes. Remove contaminated clothes

immediately. Call a physician or poison control center immediately.

Eye contact: Flush with water for at least 20 minutes. Remove contact lenses. Call a physician.

#### **SECTION 11: TRANSPORTATION INFORMATION**

UN2810 CLASS 6.1 PG III

Toxic liquid, Organic, N.O.S. (furfuryl alcohol)

# Important Notice

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of CTM Adhesives Inc. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users responsibility to verify suitability of this information for their own particular use. CTM

**SECTION 1: IDENTIFICATION DATA** 

Manufactured by: CTM Adhesives Inc.

8320 Grenache Montreal, QUÉBEC CANADA H1J 1C5

Telephone: 514-321-5540

Product Name: ECTCR Extreme B
Product Use: Epoxy hardener

Prepared by: Research department

Date: January 2016

#### **SECTION 2: HAZARDOUS INGREDIENTS**

Ingredient	% by Weight	CAS Number	LD 50 (ORAL-RAT) (mg/kg)
Benzyl alcohol	10 - 30	100-51-6	NA
Cyclohex-1,2-ylene diamine	10 - 30	694-83-7	NA
Benzoic acid, 2-hydroxy-	1 - 5	69-72-7	NA

#### **SECTION 3: PHYSICAL PROPERTIES**

Vapor Pressure (mm Hg): N.A.

Boiling Point (°C): 188 -192 °C Solubility in water: Partially soluble

Freezing Point (°C):

N.A.

PH:

N.A.

Evaporation Rate: N.A. (Butyl acetate = 1)

N.A. (Ethyl acetate = 1)

Specific Gravity (g/ml): 1.09

Volatile by Weight (%): N.A.

Color Amber

Appearance / Odour : Transparent liquid / Slight amine odour

VOC (g/L): 272.5

#### **SECTION 4: FIRE AND EXPLOSION HAZARD DATA**

Flash Point: 106 °C

LEL: N.A.

UEL: N.A.

Auto Ignition Point (vapours) (°C): N.A.

Auto Ignition Point (solids) (°C): N.A.

Dust Explosion Potential: N.A.

Sensitivity to Mechanical Impact: N.A.

Sensitivity to Static Discharge : Unknown

Special Fire Fighting Procedures : Self-contained breathing apparatus and protective clothing

#### **SECTION 5: HEALTH HAZARD DATA**

Ingestion: May be harmful if swallowed.

Absorption: May be harmful if absorbed through skin.

Inhalation: May cause respiratory sensitization

Skin Contact: May cause sensitization by skin contact. Causes burns.

Eye Contact: Temporary irritation, corneal injury is unlikely.

Flammability: N.A.

Overexposure Irritation, dermatitis, rash.

symptoms:

Entry Route: Ingestion, skin and eye contact, inhalation.

Chronic Effects: May cause liver and kidney damage. May cause central nervous system effects.

Target organs: Skin, eyes, liver, kidney, CNS.

Toxic synergistic

materials:

None known.

## WHMIS Classification:

Class D2B: Toxic material Class E: Corrosive liquid



#### **SECTION 6: REACTIVITY DATA**

Stability: Stable

Materials to avoid: Zinc, aluminum, oxidizing agents, strong alkalies, acids

Hazardous decomposition: Carbon dioxide, carbon monoxide.

Hazardous Polymerization: Will polymerize if mixed with an epoxy resin. Considerable heat can

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#### **SECTION 7: SPILL OR LEAK PROCEDURES**

Steps to be taken in case material is released or spilled:

Soak up all liquid with absorbent material. Package absorbed material in steel containers which are leak proof.

Waste disposal method:

Dispose in accordance with municipal regulations for hazardous waste disposal.

### **SECTION 8: SPECIAL PROTECTION INFORMATION**

Respiratory Protection: Wear a NIOSH-certified (or equivalent) respirator as necessary

Ventilation: Local exhaust is preferred.

Protective Gloves: Neoprene rubber, nitrile, impervious plastic.

Eye protection: Safety glasses or full face shield.

Other protection: Safety shower, eye bath.

#### **SECTION 9: SPECIAL PRECAUTIONS**

#### Precaution for handling and storing:

Store in a cool and dry location. Keep container lid tightly closed after partial use or when storing.

#### Other precautions:

Adequate ventilation when using. Avoid skin contact.

#### **SECTION 10: FIRST AID**

Ingestion: Rinse mouth immediately and then drink plenty of water, seek medical attention.

Call physician who must decide to induce or not vomiting.

Inhalation: Remove patient to fresh air. Give mouth to mouth if patient is not breathing. Call a

physician.

Skin Contact: Flush with soap and water for a minimum of 15 minutes. Call a physician.

Eye Contact: Wash affected eyes for at least 15 minutes under running water with eyelids held

open, consult an eye specialist.

#### **SECTION 11: TRANSPORTATION INFORMATION**

PIN: UN 2735 Primary Class: 8 Packing Group: III

TGD Description: POLYAMINES, LIQUID, CORROSIVE, N.O.S. [CYCLOHEX-1,2-YLENEDIAMINE]

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