

MATERIAL SAFETY DATA SHEET

ULTRABOND 803 PART B

SECTION 01: PRODUCT IDENTIFICATION

Product Identifier:	Water Based Epoxy Sealer
WHMIS Classification:	D-1B, Materials Causing Immediate and Serious Effects, D-2B, Materials Causing Toxic Effects, E, Corrosive Materials
Manufacturer's Name:	Concretech Inc., #106, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada,
Supplier's Name	Concretech Inc., #106, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada,
Preparation Date of MSDS:	September 5th, 2007
Revision Date of MSDS:	February 11 th , 2011
MSDS Prepared By:	Farhad Kazemian
Phone Number of Preparer:	1 604 210 1147
Emergency Phone Number	1 888 503 6780

SECTION 02: HAZARDOUS INGREDIENTS

Ingredients:	%	CAS#	LD/50	ACGIH/ TLV	Comments
Aliphatic Polyamine	35-36%	N/A	2000 mg/kg	N/A	N/A
3-amonomethyl-35,5-trimethylcyclohexylamine	2.0-6.5%	2855-13-2	N/A	N/A	N/A
m-xylenediamine	2.5- 8.0%	1477-55-0	N/A	0.1mg/m3' Skin Absorption	N/A

SECTION 03: HAZARDOUS IDENTIFICATION

Route of Entry:	Skin, skin absorption, eye, inhalation, ingestion,
Skin Contact:	Causes skin burns. Injury may be permanent. May cause allergic skin reaction. May be harmful if absorbed.
Skin Absorption:	Skin absorption of m-xylenediamine (ACGIH / TLV = 0.1 mg/ m3) may be added to the overall exposure.
Eye Contact:	Causes skin burns. Injury may be permanent.
Inhalation:	Moderately irritating if inhaled.
Ingestion:	No more than slightly toxic if swallowed. Significant adverse effects are not expected to develop if only small amounts (less than a mouthful) are swallowed.
Emergency Overview:	CAUTION: May cause eye irritation. May cause skin irritation. May cause respiratory tract irritation.
WHMIS Symbols:	N/A
Potential Health Effects:	N/A

SECTION 04: FIRST AID MEASURES

Skin Contact:	Flush skin with plenty of water for 15 minutes. Remove contaminated clothing. Wash skin gently with soap as soon as it is possible. Get medical aid.
Eye Contact:	Flush eyes with large amount s of running water for 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention.
Inhalation:	Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Get medical attention.
Ingestion:	If large amounts are swallowed, promptly induce vomiting and get medical attention.

SECTION 05: FIRE FIGHTING MEASURES

Flammable (Yes / No)	No
Yes	N/A

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Means of Extinction	Foams, dry chemical, carbon dioxide, water fog.
Flash Point (°C / Method)	100 C (212F)
Upper Flammable Limit (% by Volume)	N/A
Lower Flammable Limit (% by Volume)	N/A
Autoignation Temperature (°C)	N/A
Explosion Data- Sensitivity to Impact	N/A
Explosion Data- Sensitivity to Static Discharge	N/A
Hazardous combustion Products	Carbon dioxide, carbon monoxide, nitrogen oxides, smoke.
NFPA	N/A

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protection recommended in Section 8.
Environmental Precautions	Keep out of drains and water courses.
Methods For Cleaning up	Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush spill area with water.

SECTION 07: HANDLING AND STORAGE

Handling Procedures and Equipment	Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep containers closed. Use with adequate ventilation. Wash thoroughly after handling.
Storage requirements	Freeze sensitive. Keep in a cool, dry, well-ventilated place. Stable under normal conditions of handling and storage. Storage temperature: Store at 0 – 30 C (32 – 86 F).

SECTION 08: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limit	ACGIH TLV	See section 2
	OSHA PEL	See section 2
	Other	Mexican OEL for m- xylenediamine is 0.1 mg/ m3; 8.0 hr.
Engineering Controls	General	General ventilation required during normal use.
	Local Exhaust	Use adequate ventilation to keep airborne concentrations low.
	Other	N/A
Personal Protective Equipment	Gloves	Chemical resistant, butyl rubber.
	Respirator	Avoid breathing vapor or mist. Use approved respiratory protection equipment (full facepiece recommended) when airborne exposure limits are exceeded. If used, full face piece replaces the need for face shield and / or chemical goggles. Contact the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by manufacturer.
	Eye	Chemical safety goggles. Have eye wash facilities immediately available at any location where eye contact can occur.
	Footwear	Chemical resistant safety boots.
	Clothing	Wear impressive protective clothing. Wear full protective clothing if expected to splashes. Wash contaminated skin promptly. Attention! Repeated or prolonged contact may cause allergic skin reaction in some people.
	Other	Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking,

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Hazard Index	N/A	wash face and hands thoroughly with soap and water.
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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Odor and Appearance	Amine like odor, clear yellowish liquid
Odor Threshold (ppm)	N/A
Specific Gravity	1.10 g/cm ³ @ 25C
Vapor Density (air = 1)	N/A
Vapor Pressure (mmHg)	< 25 hPa @ 20 C
Evaporation Rate	Slower than Butyl Acetate
Flammability Class	N/A
Boiling Point °C	100- 200 C (212- 392 F)
Freezing Point °C	N/A
Volatile % By Weight	60% water
PH	N/A
Coefficient of Water / Oil Distribution	N/A
Solubility in Water	Soluble in water

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable, Do not expose to extreme temperatures.
Incompatibility With Other Substances	Do not mix strong oxidizing agents, strong acids or bases, amines or halogens.
Reactivity	Not reactive
Hazardous Decomposition Products	Decomposition temperature is 170 C and the decomposition product is Acrylonitrile.

SECTION 11: TOXICOLOGICAL INFORMATION

Effects on Acute Exposure	Oral: LD50, rat, > 2000 mg/ kg, no more than slightly toxic.
Effects on Chronic Exposure	Some components of this product have been identified as hazardous chemicals under the criteria of the OSHA , Hazard Communication Standard (29 CFR 1910. 1200) or the Canadian Hazardous Products Act are discussed below: 3-amonomethyl-35, 5- trimethylcyclohexylamine: Harmful if swallowed. Harmful in contact with skin. Corrosive to eyes. Corrosive to skin. May cause sensitization by skin contact. May cause irritation of respiratory system. M-xylenediamine: Slightly toxic following oral administration. Slightly toxic after skin application in animal studies. Highly irritating to eyes (rabbit). Highly Irritating to skin (rabbit). Produced slight dermal sensitization (guinea pigs).
Irritancy of Product	See above
Skin Sensitization	Some raw materials are skin sensitization.
Respiratory sensitization	See above
Ingestion	See above
Carcinogenicity	N/A
IARC (1,A2 or 2B)	N/A
ACGIH (A1, A2 or A3)	N/A

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Reproductive Toxicity	N/A
Teratogenicity	N/A
Embryotoxicity	N/A
Mutagenicity	N/A
Name of Synergistic Products / Effects	N/A

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity	Very toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.
Fish Test Results	Acute toxicity, freshwater (OECD 203) on Zebra Fish (<i>Brachydanio rerio</i>) for 96 hr, 0.5- 1.0 mg/l LC50.
Invertebrate Test Results	Test: Acute Immobilization (OECD 202), on Water Flea (<i>Daphnia magna</i>), for 24, 48 hr, 2.3, 1.5 mg/l, EC50
Bacteria Test Results	Test: DIN 38412 T.8 on <i>Pseudomonas</i> for 16 hr, > 1- 10 mg/l EC50.
Degradation	Test: Manometric Respirometry (OECD 301 F), for 28 hr, 0%

SECTION 13: DISPOSABLE CONSIDERATION

Waste Disposal	Disposal must be made in accordance with applicable governmental regulations. The company encourages the recycle, recovery and reuse of materials, where permitted, as an alternative to disposal as a waste. The company recommends that organic materials classified as hazardous waste according to the relevant local or national regulations be disposed of by thermal treatment or incineration at approved facilities.
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SECTION 14: TRANSPORT INFORMATION

Special Shipping Information	Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.
PIN	N/A
Transport Canada	Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. Hazard Class: 9 Packaging Group: III UN/ ID Number: 3082 Transportation Label Required: Miscellaneous, Marine Pollutant Technical Name: Aliphatic Polyamine Comments: Marine Pollutant: DOT requirements specified to Marine Pollutants do not apply to non- bulk packaging transported by motor vehicles, rail cars or aircraft
US DOT	Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. Hazard Class: 9 Packaging Group: III UN/ ID Number: 3082 Transportation Label Required: Miscellaneous, Marine Pollutant Technical Name: Aliphatic Polyamine
IMO	Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. Hazard Class: 9 Packaging Group: III UN/ ID Number: 3082 Transportation Label Required: Miscellaneous, Marine Pollutant Technical Name: Aliphatic Polyamine
ICAO/ IATA	Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. Hazard Class: 9 Packaging Group: III UN Number: 3082 Transportation Label Required: Miscellaneous, Packaging Instructions/ Maximum Net Quantity Per Package: Passenger Aircraft: 914; No Limit Cargo Aircraft: 914; No Limit

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ERAP	Technical Name: Aliphatic Polyamine N/A
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SECTION 15: REGULATORY INFORMATION

WHMIS Classification	D2-B, Material Causing Other Toxic Effects
OSHA	N/A
SARA	Acute, Chronic
TSCA	All materials listed.
DSL / TOSCA	All raw materials listed.

SECTION 16: OTHER INFORMATION

Regulatory Information	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.
Health :2	Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
Fire : 1	Materials that must be preheated before ignition can occur.
Reactivity: 0	Materials those in themselves are normally stable, even under fire exposure conditions.

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It is provided solely for the customer's consideration, and verification. Hereby specifically claims. It shall not be held liable for any damage resulting from handling or from contact with the above products.