

MATERIAL SAFETY DATA SHEET

DECATHANE 200 PART A

SECTION 01: PRODUCT IDENTIFICATION

Product Identifier:	Resin Dispersion Polyol
WHMIS Classification:	D-2B, Materials Causing Other Toxic Effects
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:	November 25 th , 2003
Revision Date of MSDS:	April 13 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	TLV	Comments
Ammonia	0.5%	7664-41-7	350 mg/kg (Oral Rat)	25 mg/m3	N/A
Organotin	0.13%	77-58-7	N/A	N/A	N/A

SECTION 03: HAZARDOUS IDENTIFICATION

Route of Entry:	Eye and skin contact, inhalation, ingestion
Skin Contact:	Can cause moderate irritation, defatting dermatitis
Skin Absorption:	N/A
Eye Contact:	Contains materials that are moderately irritating to the eye. Can cause tearing, redding and swelling. Damage is usually reversible
Inhalation:	Ammonia vapors could produce irritation of nose and throat. Can cause headache, dizziness and nausea. May result in narcosis.
Ingestion:	Can cause gastrointestinal irritation, vomiting and diarrhea.
Emergency Overview:	WARNING! Color: Light straw colored opalescent solution; Form Liquid: Ammonia odor; may cause allergic respiratory reaction: harmful if inhaled: May cause respiratory tract irritation: May cause allergic skin reaction; may cause skin irritation; and severe skin irritant; may affect nervous system; Causes eye irritation; Harmful if swallowed. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture; Toxic gases/ fumes are given off during burning of thermal decomposition. Closed containers may explode under extreme heat. If swallowed, call physician immediately. Remove any stomach contents by astric suction or induce vomiting only as directly by medical personnel. Never give anything by mouth to an unconscious person.
WHMIS Symbols:	N/A
Potential Health Effects:	N/A

SECTION 04: FIRST AID MEASURES

Skin Contact:	Remove contaminated clothing and shoes. Wash affected areas with soap and water. Wash contaminated clothing and clean shoes before reuse. If irritation develops contact physician
Eye Contact:	Wash with clean, lukewarm (low pressure) water for at least 15 minutes, use fingers to hold eyelids open to ensure that the eyes are being irritated. Consult a physician if ill effects or irritation occurs.
Inhalation:	Remove to fresh air immediately if breathing becomes difficult. If not breathing give artificial respiration (i.e. mouth to mouth) if breathing is still difficult administers oxygen (qualified medical personnel only). Call a physician.
Ingestion:	If swallowed, call a physician.

SECTION 05: FIRE FIGHTING MEASURES

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Flammable (Yes / No)	No
Yes	N/A
Means of Extinction	Water, carbon Dioxide; Dry Chemicals; Foam.
Flash Point (°C / Method)	Greater than 250 F (121 C) Closed cup Seta Flash
Upper Flammable Limit (% by Volume)	25%
Lower Flammable Limit (% by Volume)	16%
Autoignation Temperature (°C)	N/A
Explosion Data- Sensitivity to Impact	N/A
Explosion Data- Sensitivity to Static Discharge	N/A
Hazardous combustion Products	By fire: Protect against potentially toxic irritating fumes.
Special Fire Fighting Procedures	Firefighting should be equipped with self-contained breathing apparatus and full protective clothing to protect against potentially toxic and irritating fumes. Cool fire-exposed containers with cold-water spray. Heat will pressure buildup and may cause explosive rupture. Do not spray directly. A solid stream of water directed into the burning liquid could cause frothing.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Execute all non-essential personnel. If material released or spilled, dam up to prevent spreading and contamination of surface waters, drinking water supplies and sewers. Cover spills with absorbent materials such as vermiculite. Scoop up solid absorbent for waste disposal and place in appropriately marked containers. Ventilate spill areas.
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SECTION 07: HANDLING AND STORAGE

Handling Procedures and Equipment	Remove sources of open ignition. Store in a cool, dry place, in an upright position, in original or similar waterproof containers. Avoid unnecessary contact. Protect from freezing. Do not breathe vapors or mists if generated.
Storage Requirements	Storage temperature (min/ max) 50 F (10 C) / 90 F (32.22 C)- material is stable when stored below 90 F (32.22 C). Shelf Life = 6 months Special Sensitivity = Protect from freezing 32 F (0 C) container water.

SECTION 08: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limit	ACGIH TLV	N/A
	OSHA PEL	N/A
	Other	N/A
Engineering Controls	General	N/A
	Local Exhaust	N/A
	Other	N/A
Personal Protective Equipment	Gloves	Chemical resistant gloves (butyl rubber, nitrile rubber and neoprene are recommended). Cover as much of the exposed skin.
	Respirator	Ventilation/ contamination. Curing ovens must be ventilated to prevent the buildup of explosive atmospheres and to prevent off-gases from entering the workplace. An organic vapor cartridge or fesh air supplied respirator may be necessary for certain applications. Consider the type of application, environment concentrations, and other materials being used concurrently when determining respirator use and selection. Observe OSHA regulations for respirator use (29 CFR 1910.134).
	Eye	Liquid chemical goggles. Vapor resistant goggles should be worn when contact lenses are in use.
	Footwear	Safety shoes.
	Clothing	Cover as much of the exposed skin area as possible with appropriate clothing,,(long sleeve shirts, trousers, etc.)

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	Other	Safety showers and eye wash stations should be easily accessible to the work area. Employee training and education in the safe handling and use of this product is essential.
Hazard Index		H= 3, F= 0, R= 2

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Odor and Appearance	Light Straw colored opalescent solution, ammonia odor
Odor Threshold (ppm)	N/A
Specific Gravity	1.050 g/ cm ³
Vapor Density (air = 1)	0.569
Vapor Pressure (mmHg)	29.33 mmHg @ 68 F (20 C)
Evaporation Rate	0.07 (Butyl Acetate=1)
Flammability Class	N/A
Boiling Point °C	97 F (36.11 C) – 213 F (100.56 C)
Freezing Point °C	Water = 32 F (0 C)
Volatile % By Weight	N/A
PH	N/A
Coefficient of Water / Oil Distribution	N/A
Solubility in Water	Dispersible

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable
Incompatibility With Other Substances	Avoid contact with strong oxidizing agents, acids and bases.
Reactivity	N/A
Hazardous Decomposition Products	By fire / thermal decomposition: oxides of carbon, oxides of nitrogen and other undetermined aliphatic fragments.

SECTION 11: TOXICOLOGICAL INFORMATION

Effects on Acute Exposure	See hazardous ingredients in section 2
Effects on Chronic Exposure	N/A
Irritancy of Product	Irritant
Skin Sensitization	Chronic exposure may cause damage to the skin
Respiratory sensitization	N/A
Carcinogenicity	N/A
Other Toxicity Information	N/A
IARC (1,A2 or 2B)	N/A
ACGIH (A1, A2 or A3)	N/A
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	N/A
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SECTION 13: DISPOSABLE CONSIDERATIONS

Waste Disposal	Waste must be incinerated or disposed of in compliance with federal, state or local environmental control regulations. If incinerated, toxic and corrosive combustion gases must be properly handled.
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SECTION 14: TRANSPORT INFORMATION

Special Shipping Information	N/A
PIN	Not regulated
TDG	Not regulated
DOT	Not regulated
IMO	N/A
ICAO	N/A
ERAP	N/A

SECTION 15: REGULATORY INFORMATION

WHMIS Classification	D2B, Materials causing other toxic effects.
OSHA	This product is hazardous under the criteria of the Federal OSHA Hazard. Communication Standard 29 CFR 1910.1200
SERA	N/A
TSCA	On TSCA Inventory
DSL / TOSCA	All raw materials listed.

SECTION 16: OTHER INFORMATION

Regulatory Information	N/A
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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.