

CONCRETECH

106, 2567 - 192 STREET, SURREY, BC, V3S 3X1

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MATERIAL SAFETY DATA SHEET **SURFACE RETARDER (HORIZONTAL, VERTICAL)**

SECTION 01: PRODUCT IDENTIFICATION

Product Identifier:	Solution of Organic Chemicals and water
WHMIS Classification:	Not Classified
Product Use:	Concrete Retarding
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 10 th , 2008
Revision Date of MSDS:	April 20 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	LC/50	Comments
Organic Chemicals	25-30	Not Hazardous	Not Hazardous	Not Hazardous	NA

SECTION 03: HAZARDOUS IDENTIFICATION

Route of Entry:	Skin, Eye, Inhalation, Ingestion
Skin Contact:	Irritant, May cause irritation for susceptible individuals.
Skin Absorption:	NA
Eye Contact:	Irritant, Exposure may lead to tearing, blurring and sensitivity to light
Inhalation:	Long-term inhalation of excessive dust may cause delayed lung injury.
Ingestion:	May cause toxic effects if large amounts are swallowed. No effects known for rare accidental swallowing.
Emergency Overview:	NA
WHMIS Symbols:	NA
Potential Health Effects:	No chronic effects of exposure.

SECTION 04: FIRST AID MEASURES

Skin Contact:	Wash with soap and water. Flush exposed areas with luke-warm water
Eye Contact:	Immediately flush with water for at least fifteen minutes. If irritation persists or develops get medical attention.
Inhalation:	If adverse effects occur, get medical attention and advice.
Ingestion:	Normally nontoxic in small amounts. If adverse effects occur, get medical attention and advice.

SECTION 05: FIRE FIGHTING MEASURES

Flammable (Yes / No)	No
Means of Extinction	Water Spray, carbon dioxide, dry chemical, foam
Flash Point (°C / Method)	NA
Upper Flammable Limit (% by Volume)	NA
Lower Flammable Limit (% by Volume)	NA

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Autoignation Temperature (°C)	NA
Explosion Data- Sensitivity to Impact	NA
Explosion Data- Sensitivity to Static Discharge	NA
Hazardous combustion Products	NA
Special Fire Fighting Procedures	Do not release run off from extinguishing media into sewers or waterways. Wear NIOSH approved, self-contained breathing apparatus and full protective clothing.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Collect as much as possible for use or disposal. Flush remainder into normal drainage or into ground with copious amounts of water.
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SECTION 07: HANDLING AND STORAGE

Handling Procedures and Equipment	Avoid contact with eyes, skin and clothing. Store material in original containers. Use with adequate ventilation.
Storage requirements	Store in a cool, well-ventilated area away from all oxidizers and ignition hazards. Outside or detached storage is preferable. Purge all empty containers prior to disposal. DO NOT FREEZE

SECTION 08: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limit	ACGIH TLV	NA
	OSHA PEL	NA
	Other	Over 100 ppm
Engineering Controls	General	Provide general exhaust ventilation to maintain air concentration levels to acceptable limits.
	Local	Use local exhaust when the general ventilation is inadequate.
	Other	Eyewash stations and safety showers should be proximal to handling location.
Personal Protective Equipment	Gloves	Wear protective gloves.
	Respirator	Wear a NIOSH approved respirator.
	Eye	Wear full safety shields.
	Footwear	NA
	Clothing	Wear protective clothing.
	Other	NA
HMIS Rating		Health=1, Fire= 0, Reactivity= 0

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Odor and Appearance	Green / Blue Liquid
Odor Threshold (ppm)	NA
Specific Gravity	0.895- 0.915 g/cm3
Vapor Density (air = 1)	NA
Vapor Pressure (mmHg)	NA
Evaporation Rate	0.7
Boiling Point °C	110 C (230 F)
Freezing Point °C	NA
Volatile % By Weight	70 – 75%

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PH	NA
Coefficient of Water / Oil Distribution	NA
Solubility in Water	Soluble

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability (Yes/No)	Stable under normal storage and handling conditions.
Incompatibility With Other Substances (Yes/No)	Incompatible with strong acids, oxidizers and bases.
Reactivity	Not expected to occur.
Hazardous Decomposition Products	NA

SECTION 11: TOXICOLOGICAL INFORMATION

Effects on Acute Exposure	May lead to skin and eye irritation. LD50 (Rat): >2000 mg/kg bw
Effects on Chronic Exposure	Not known chronic effects of exposure.
Irritancy of Product	Mildly irritant.
Skin Sensitization	NA
Respiratory sensitization	NA
Carcinogenicity IARC (1, A2 or 2B) ACGIH (A1, A2 or A3)	This product contains no materials known to be carcinogens as designated by the OSHA list of carcinogens.
Reproductive Toxicity	NA
Teratogenicity	NA
Embryotoxicity	Product contains no normal material known to be embryonic toxicants.
Mutagenicity	NA
Name of Synergistic Products / Effects	NA

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity	LC50 for Fish 96 h > 1000.0 mg/L LC50 for Daphnid 48 h > 1000.0 mg/L Chronic Value for Fish > 100.0 mg/L Chronic Value for Daphnid > 100.0 mg/L Biological Fate: No Bio-concentration in aquatic organisms and rapid biodegradation/ disappearance in the environment.
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SECTION 13: DISPOSABLE CONSIDERATIONS

Waste Disposal	Waste product is not considered hazardous. Dispose in accordance with all applicable local, state, federal and environmental regulations.
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SECTION 14: TRANSPORT INFORMATION

Special Shipping Information	None
PIN	Not Regulated
TDG	Not Regulated
DOT	Not Regulated
IMO	Not Regulated
ICAO	Not Regulated
ERAP	Not Regulated

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SECTION 15: REGULATORY INFORMATION

WHMIS Classification	NA
OSHA	Yes
SARA	Reportable for SARA Title III, 313 (Form R): None
TSCA	USA Yes

SECTION 16: OTHER INFORMATION

Regulatory Information	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.
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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.

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