

## MATERIAL SAFETY DATA SHEET

### S/B Curing Compound VOC350



#### SECTION 01: PRODUCT IDENTIFICATION

<b>Product Identifier:</b>	Concrete curing
<b>WHMIS Classification:</b>	CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects (TOXIC).
<b>Product Use:</b>	Concrete Protection
<b>Manufacturer's Name:</b>	Concretech Inc., #104, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada
<b>Supplier's Name</b>	Concretech Inc., #104, 2567- 192 Street, Surrey, BC, V3S 3X1, Canada
<b>Preparation Date of MSDS:</b>	May 30 <sup>th</sup> , 2012
<b>Revision Date of MSDS:</b>	May 30 <sup>th</sup> , 2012
<b>MSDS Prepared By:</b>	Farhad Kazemian
<b>Phone Number of Preparer:</b>	1 604 210 1147
<b>Emergency Phone Number</b>	1 888 503 6780

#### SECTION 02: HAZARDOUS INGREDIENTS

Ingredients:	%	CAS#	OSHA PEL	TLV	STEL
Oxygenated Solvents	50 - 80	67-64-1	1000 ppm	500 ppm	750 ppm
Xylene	5-10	1330-20-7	100 ppm	150 ppm	150 ppm
Petroleum Resin	12-15	64742-16-1	TWA 5 mg/m3 (Respiratable Dust Fraction)	NA	NA

#### SECTION 03: HAZARDOUS IDENTIFICATION

<b>Route of Entry:</b>	Skin, Eye, Inhalation, Ingestion
<b>Skin Contact:</b>	Moderate irritant. May cause dermatitis and allergic responses.
<b>Skin Absorption:</b>	This product partially absorbed by the skin and may cause dermatitis and allergic responses.
<b>Eye Contact:</b>	Can cause irritation such as redness, tearing, and blurred vision.
<b>Inhalation:</b>	Avoid inhaling. This product can produce central nervous depression, and cause headache, drowsiness and lack of coordination.
<b>Ingestion:</b>	May cause vomiting and nausea.
<b>Emergency Overview:</b>	Overexposure to solvents may cause permanent brain and nervous system damage. Reports also indicate that solvents can cause liver damage, and mucous membrane irritation. Intentional misuse by deliberately inhaling the vapors or the product contents may be harmful or fatal.
<b>WHMIS Symbols:</b>	 B2  D-2B
<b>Potential Health Effects:</b>	Prolonged or high exposures may cause CNS effects, liver, adrenal gland and kidney changes. The kidney findings are not likely relevant to humans.

#### SECTION 04: FIRST AID MEASURES

<b>Skin Contact:</b>	Wash with soap and water. Remove contaminated clothing and shoes. Do not reuse until cleaned. If persistent irritation occurs, get medical attention.
<b>Eye Contact:</b>	DO NOT RUB. Flush eyes with plenty of water for 15 minutes while holding eyelids open. If irritation persists, GET MEDICAL ATTENTION IMMEDIATELY.
<b>Inhalation:</b>	Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. GET MEDICAL ATTENTION IMMEDIATELY.

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<b>Ingestion:</b>	DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. GET MEDICAL ATTENTION IMMEDIATELY.
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### SECTION 05: FIRE FIGHTING MEASURES

<b>Flammable (Yes / No)</b>	Yes, Highly Flammable Liquid
<b>Means of Extinction</b>	Use water fog, foam, dry chemical, or CO2. Do not use a direct stream of water. Product will float and can re-ignite on the surface of the water.
<b>Flash Point (°C / Method)</b>	-18 C (- 0.4 F)
<b>Upper Flammable Limit (% by Volume in air)</b>	2.6 %
<b>Lower Flammable Limit (% by Volume in air)</b>	12.6%
<b>Autoignation Temperature (°C)</b>	465C (869F)
<b>Explosion Data- Sensitivity to Impact</b>	Vapors are heavier than air and may accumulate in low areas inadequately ventilated. Vapors may also travel along the ground to be ignited at locations distant from the handling site and flashback of flame to the handling site may occur.
<b>Explosion Data- Sensitivity to Static Discharge</b>	Never use welding or cutting torch on or near containers, even when empty. Product or residue may ignite explosively.
<b>Hazardous combustion Products</b>	Closed containers may explode when exposed to extreme temperatures. Thermal decomposition or combustion may generate irritating and or toxic gases like carbon monoxide (CO), carbon dioxide (CO2) and water.
<b>Special Fire Fighting Procedures</b>	Evacuate hazard area of unprotected personnel. Wear proper protective clothing, including a NIOSH-approved, positive pressure, self-contained, breathing apparatus. Cool fire-exposed containers with water. In case of large fires, also cool surrounding equipment and structures with water. If a leak or spill has not ignited, use water spray to disperse the vapors.

### SECTION 06: ACCIDENTAL RELEASE MEASURES

<b>Leak and Spill Procedures</b>	This product is extremely flammable. Shut off and eliminate all ignition sources. Keep people away. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Flush with water to a tank or an open well-ventilated area. Recover by pumping. USE EXPLOSION PROOF EQUIPMENT. Keep product out of sewers, watercourses, and soil by dyking or impounding. Apply a suitable absorbent such as sand, earth to the spill areas. Do not use combustible materials such as sawdust. Control runoff and isolate discharge material for proper waste- disposal method. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas. Use non-leaking containers, seal tightly, and label properly. Dispose of in accordance with applicable local, county, state, and federal regulations.
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### SECTION 07: HANDLING AND STORAGE

<b>Handling Procedures and Equipment</b>	Keep away from heat, sparks, and open flame. DO NOT WELD, heat or drill on or near containers. Even empty containers can contain explosive vapors or residue. Keep containers closed. Do not breathe vapors or spray mist.
<b>Storage requirements</b>	Store away from strong oxidizing agents, in a cool, dry place with adequate explosion-proof ventilation. Ground equipment to prevent accumulation of static charge. If pouring or transferring materials, containers must be bonded and ground.

### SECTION 08: EXPOSURE CONTROL / PERSONAL PROTECTION

<b>Exposure Limit</b>	<b>ACGIH TWA</b>	NA
	<b>OSHA PEL</b>	See Section 2
	<b>Other</b>	NIOSH IDLH 1,500 ppm
<b>Engineering Controls</b>	<b>General</b>	Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Use

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		explosion-proof equipment.
	<b>Local Exhaust</b>	Both local exhaust and good general room ventilation must be provided
	<b>Other</b>	Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Use good hygiene when handling this product.
<b>Personal Protective Equipment</b>	<b>Gloves</b>	Use chemical resistant gloves like butyl rubber; avoid prolonged or repeated skin contact.
	<b>Respirator</b>	Avoid inhalation and use only MSHA or NIOSH approved atmosphere supplying or air purifying respirators in confined or enclosed spaces for organic vapors, if needed.
	<b>Eye</b>	Use splash goggles or face shield to protect face and eyes. An eyewash station and a safety shower should be available.
	<b>Footwear</b>	Remove contaminated shoes and thoroughly clean and dry before use.
	<b>Clothing</b>	Remove contaminated clothing and laundry or dry-clean before reuse.
	<b>Other</b>	Cleanse skin thoroughly after handling and before eating or drinking. Product is easily removed with waterless hand cleaners followed by washing thoroughly with soap and water.
<b>Hazard Index</b>		Health=2, Fire= 3, Reactivity= 0

### SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Odor and Appearance</b>	Petroleum Odor, Clear liquid
<b>Odor Threshold (ppm)</b>	NA
<b>Specific Gravity (Water=1)</b>	0.855 g/cm <sup>3</sup>
<b>Vapor Density (air = 1)</b>	NA
<b>Vapor Pressure (mmHg)</b>	17 mm Hg @ 68 F (20 C)
<b>Evaporation Rate</b>	Heavier than n-Butyl Acetate
<b>Flammability Class</b>	3
<b>Boiling Point °C</b>	NA
<b>Freezing Point °C</b>	NA
<b>Volatile % By Weight</b>	85.0 – 88.0%
<b>PH</b>	NA
<b>Coefficient of Water / Oil Distribution</b>	NA
<b>VOC</b>	< 350 grams/ liter (2.92 lbs/gallon) without exempt solvents
<b>Solubility in Water</b>	Partially

### SECTION 10: STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable
<b>Incompatibility With Other Substances</b>	Conditions to avoid: Heat, sparks and open flames Materials to avoid: Strong oxidizing agents, bases or acids, nitrates and plastics.
<b>Reactivity</b>	NA
<b>Hazardous Decomposition Products</b>	From thermal decomposition, fumes, smoke or aldehydes, phenols and acids from incomplete combustion.

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Effects on Acute Exposure</b>	<b>Acute Toxicity:</b> Acetic Acid, 1,1-dimethylethyl ester: LD/50 (Oral rat) = 4,500 mg/kg Petroleum Resin: LD/50 (Oral Rat) 7,000 mg/ kg Dibenzoate Plasticizer : LD/50 (Oral Rat) > 2,000 mg/kg
<b>Effects on Chronic Exposure</b>	Symptoms of chronic overexposure include loss of memory, loss of intellectual ability, and loss of coordination.
<b>Irritancy of Product</b>	In skin irritation studies, the product was found to be slightly to moderately irritating.

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<b>Skin Sensitization</b>	NA
<b>Respiratory sensitization</b>	Symptoms of respiratory irritation include runny nose, sore throat, abdominal nausea, and symptoms of intoxication. In extreme cases unconsciousness and death may occur.
<b>Carcinogenicity</b>	Xylene contains ethyl benzene. The international Agency for Research on Cancer has evaluated ethyl benzene and classified it as a human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but evidence for cancer in exposed humans.
<b>Other Toxicity Information</b>	NA
<b>Reproductive Toxicity</b>	This product is not toxic to reproduction.
<b>Teratogenicity</b>	There have been a few studies investigating the mutagenic potential of xylenes. These studies (induction of sister chromatid exchanges and chromosomal aberrations in human lymphocytes (white blood cells) were negative.
<b>Embryotoxicity</b>	This substance is not a developmental toxicant.
<b>Mutagenicity</b>	This substance is not a developmental toxicant.
<b>Name of Synergistic Products / Effects</b>	NA

### SECTION 12: ECOLOGICAL INFORMATION

<b>Aquatic Toxicity</b>	If xylene enters soil, it will be highly mobile and may contaminate groundwater. Xylene is readily biodegradable. Xylene oxidizes rapidly by photo-chemical reactions in air.
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### SECTION 13: DISPOSABLE CONSIDERATIONS

<b>Waste Disposal</b>	Use non-leaking containers, seal tightly and label properly. Dispose of in accordance with applicable local, county, state, and federal guidelines. Do not dispose in streams, wells, lakes, rivers, oceans, or sewers. Handle as a combustible product.
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### SECTION 14: TRANSPORT INFORMATION

<b>Shipping Name</b>	Resin Solution
<b>PIN</b>	UN1866, Resin Solution, Flammable Liquids, Class 3 , PGIII
<b>TDG</b>	UN1866, Resin Solution, Flammable Liquids, Class 3 , PGIII
<b>DOT</b>	UN1866, Resin Solution, Flammable Liquids, Class 3 , PGIII
<b>IMO</b>	NA
<b>ICAO</b>	NA
<b>ERAP</b>	NA

### SECTION 15: REGULATORY INFORMATION

<b>OSHA Regulated</b>	No
<b>NTP</b>	No
<b>IARC Monograph</b>	No
<b>NFPA Rating</b>	Health: 2, Flammability: 3, Reactivity: 0

### SECTION 16: OTHER INFORMATION

<b>Regulatory Information</b>	<p><b>State Warning: California Prop 65:</b> This product may contain chemicals known to the state of California to cause cancer and birth defects or other reproductive harm. Many states have adopted Federal guidelines and restrictions for hazardous chemicals. A complete list is available at <a href="http://www.epa.gov/ceppo/pubs/title3.pdf">www.epa.gov/ceppo/pubs/title3.pdf</a>. Some states have expanded the Federal List and you should check with your local regulatory agency for any additional restrictions on the hazardous chemicals listed in this section.</p> <p><b>Federal Warning: Section 313 Supplier Notification:</b> This product contains the following toxic chemicals subject to the reporting requirements of SARA TITLE III, Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:</p>
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CAS#	Chemical Name	% By Weight
67-64-1	Oxygenated Solvents	50-80
1330-20-7	Xylene	5-10

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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