

MATERIAL SAFETY DATA SHEET

SB CURE C309 GREEN SOLVENT CURING COMPOUND



SECTION 01: PRODUCT IDENTIFICATION

Product Identifier:	Concrete Sealer
WHMIS Classification:	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).
Product Use:	Concrete Protection
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:	April 30 th , 2008
Revision Date of MSDS:	June 10th, 2011
MSDS Prepared By:	Farhad Kazemian
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SECTION 02: HAZARDOUS INGREDIENTS

Ingredients:	%	CAS#	OSHA PEL	TLV	STEL
Oxygenated Solvent	30-55	67-64-1	1000 ppm	500 ppm	750 ppm
Xylene	10-20	1330-20-7	100 ppm	150 ppm	150 ppm
p-Chlorotrifluoromethylbenzene	20-25	98-56-6	NA	NA	NA
Acrylic Resin	20-30	NA	NA	NA	NA

SECTION 03: HAZARDOUS IDENTIFICATION

Route of Entry:	Skin, Eye, Inhalation, Ingestion
Skin Contact:	Moderate irritant. May cause dermatitis and allergic responses.
Skin Absorption:	This product partially absorbed by the skin and may cause dermatitis and allergic responses.
Eye Contact:	Can cause irritation such as redness, tearing, and blurred vision.
Inhalation:	Avoid inhaling. This product can produce central nervous depression, and cause headache, drowsiness and lack of coordination.
Ingestion:	May cause vomiting and nausea.
Emergency Overview:	Clear liquid with petroleum odor. 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.
WHMIS Symbols:	 B2  D-2B
Potential Health Effects:	NA

SECTION 04: FIRST AID MEASURES

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

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of liquid into lungs. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 05: FIRE FIGHTING MEASURES

Flammable (Yes / No)	Yes
Means of Extinction	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.
Flash Point (°C / Method)	-18 C (- 0.4 F)
Upper Flammable Limit (% by Volume in air)	2.6 %
Lower Flammable Limit (% by Volume in air)	12.6%
Autoignation Temperature (°C)	465C (869F)
Explosion Data- Sensitivity to Impact	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.
Explosion Data- Sensitivity to Static Discharge	Never use welding or cutting torch on or near containers, even when empty. Product or residue may ignite explosively.
Hazardous combustion Products	Closed containers may explode when exposed to extreme temperatures. Thermal decomposition or combustion may generate irritating and or toxic gases.
Special Fire Fighting Procedures	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

Leak and Spill Procedures	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

Handling Procedures and Equipment	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.
Storage requirements	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

Exposure Limit	ACGIH TLV	See Section 2
	OSHA PEL	See Section 2
	Other	NA
Engineering Controls	General	Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. Use explosion-proof equipment.
	Local Exhaust	NA

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	Other	Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Use good hygiene when handling this product.
Personal Protective Equipment	Gloves	Use chemical resistant gloves and avoid prolonged or repeated skin contact.
	Respirator	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.
	Eye	Use splash goggles or face shield to protect face and eyes. An eyewash station and a safety shower should be available.
	Footwear	Remove contaminated shoes and thoroughly clean and dry before use.
	Clothing	Remove contaminated clothing and laundry or dry-clean before reuse.
	Other	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.
Hazard Index		Health=2, Fire= 3, Reactivity= 0

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Odor and Appearance	Petroleum Odor, Clear liquid
Odor Threshold (ppm)	NA
Specific Gravity (Water=1)	0.91-0.97 g/cm3
Vapor Density (air = 1)	NA
Vapor Pressure (mmHg)	17 mm Hg @ 68 F (20 C)
Evaporation Rate	Heavier than n-Butyl Acetate
Flammability Class	3
Boiling Point °C	NA
Freezing Point °C	NA
Volatile % By Weight	70.0 – 85.0%
PH	NA
Coefficient of Water / Oil Distribution	NA
VOC	< 400 grams/ liter (3.33 lbs/gallon) without exempt solvents
Solubility in Water	Insoluble

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable
Incompatibility With Other Substances	Conditions to avoid: Heat, sparks and open flames Materials to avoid: Strong bases or acids.
Reactivity	NA
Hazardous Decomposition Products	From thermal decomposition, fumes, smoke or aldehydes, phenols and acids from incomplete combustion. Hydrogen fluoride, hydrogen chloride and organic halides.

SECTION 11: TOXICOLOGICAL INFORMATION

Effects on Acute Exposure	p-Chlorotrifluoromethylbenzene: Oral rat LD50: >6700 mg/kg Inhalation Rat LC50 (4h): 4,470 ppm (33.0 mg/l)
Effects on Chronic Exposure	NA
Irritancy of Product	In skin irritation studies, the product was found to be slightly to moderately irritating.
Skin Sensitization	NA
Respiratory sensitization	NA
Carcinogenicity	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

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	sufficient evidence for carcinogenicity in experimental animals, but evidence for cancer in exposed humans.
Other Toxicity Information	NA
Reproductive Toxicity	p-Chlorotrifluoromethylbenzene: In a two-generation study rats were exposed daily via oral gavage at doses of 0, 5, 15 and 45 mg/kg. Only limited reproductive effects were noted. Although abnormal sperm were observed after an Interperitoneal injection of xylene to rats, xylene did not produce reproductive effects.
Teratogenicity	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.
Embryotoxicity	See Above
Mutagenicity	p-Chlorotrifluoromethylbenzene: This material was not found to be negative in the following in vitro mutagenicity studies: Chromosomal aberration study, cell transformation assay, DNA repair deficiency assay, and the mouse lymphoma forward mutation assay. In the in vivo Ames test, the compound was generally found to be negative; however two stains at the high dose produced positive results. In the in vivo sister chromatic exchange test, the compound produced positive results. In the in vivo cytogenetic assay in rats, the compound was found to be negative.
Name of Synergistic Products / Effects	NA

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity	p-Chlorotrifluoromethylbenzene: This compound is harmful to fish, daphnia and algae. Relatively biodegradable.. 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

Waste Disposal	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.
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SECTION 14: TRANSPORT INFORMATION

Shipping Name	Paint Related Material
PIN	Hazard Class 3, ID Number UN1263, PGIII, Label: Flammable Liquid
TDG	Hazard Class 3, ID Number UN1263, PGIII, Label: Flammable Liquid
DOT	Hazard Class 3, ID Number UN1263, PGIII, Label: Flammable Liquid
IMO	NA
ICAO	NA
ERAP	NA

SECTION 15: REGULATORY INFORMATION

OSHA Regulated	No
NTP	No
IARC Monograpg	No
NFPA Rating	Health: 2, Flammability: 3, Reactivity: 0

SECTION 16: OTHER INFORMATION

Regulatory Information	State Warning: California Prop 65: 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 www.epa.gov/ceppo/pubs/title3.pdf . Some states have expanded
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	the Federal List and you should check with your local regulatory agency for any additional restrictions on the hazardous chemicals listed in this section.		
	Federal Warning: Section 313 Supplier Notification: 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:		
	CAS#	Chemical Name	% By Weight
	67-64-1	Oxygenated Solvents	30-55
1330-20-7	Xylene	15-20	

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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