

MATERIAL SAFETY DATA SHEET

XYLENE

SECTION 01: PRODUCT IDENTIFICATION



Product Identifier:	Sealer Thinner
WHMIS Classification:	B2 FLAMMABLE LIQUIDS D2A VERY TOXIC MATERIALS D2B TOXIC MATERIALS
Product Use:	Thinner
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:	Mar.4 th , 2009
Revision Date of MSDS:	April 25 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#	OSHA PEL	TLV	LD/50
Xylenes	100	1330-20-7	100 ppm	100 ppm	>4.3 G/KG (Oral Rat)

The Xylene has Ethylbenzene, cas no 100-41-4 as part of its composition.

SECTION 03: HAZARDOUS IDENTIFICATION

Route of Entry:	Skin, Eye, Inhalation, Ingestion
Skin Contact:	Skin contact results in loss of natural oils and often results in a characteristic dermatitis. May be absorbed through the skin.
Skin Absorption:	Repeated or prolonged skin contact may cause a skin rash.
Eye Contact:	Vapors cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage.
Inhalation:	Inhalation of vapors may be irritating to the nose and throat. Inhalation of high concentrations may result in nausea, vomiting, headache, ringing in the ears, and severe breathing difficulties which may be delayed in onset. Substernal pain, cough, and hoarseness are also reported. High vapor concentrations are anesthetic and central nervous system depressants.
Ingestion:	Ingestion causes burning sensation in mouth and stomach, nausea, vomiting and salivation. Minute amounts aspirated into the lungs can produce a severe hemorrhagic pneumonitis with severe pulmonary injury or death.
Emergency Overview:	DANGER! HARMFUL OR FATAL IF SWALLOWED. VAPOR HARMFUL. AFFECTS CENTRAL NERVOUS SYSTEM. CAUSES SEVERE EYE IRRITATION. CAUSES IRRITATION TO SKIN AND RESPIRATORY TRACT. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CHRONIC EXPOSURE CAN CAUSE ADVERSE LIVER, KIDNEY, AND BLOOD EFFECTS. FLAMMABLE LIQUID AND VAPOR.
WHMIS Symbols:	 Class B  Class D
Potential Health Effects:	Health=2, Fire= 3, Reactivity= 0

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SECTION 04: FIRST AID MEASURES

Skin Contact:	Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
Ingestion:	Aspiration hazard. If swallowed, vomiting may occur spontaneously, but DO NOT INDUCE. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Never give anything by mouth to an unconscious person. Call a physician immediately.

SECTION 05: FIRE FIGHTING MEASURES

Flammable (Yes / No)	Yes
Yes	Highly Flammable
Means of Extinction	Dry chemical, foam or carbon dioxide. Water spray may be used to keep fire exposed containers cool, dilute spills to nonflammable mixtures, protect personnel attempting to stop leak and disperse vapors.
Flash Point (°C / Method)	29C (84F)
Upper Flammable Limit (% by Volume in air)	7.0 %
Lower Flammable Limit (% by Volume in air)	1.0%
Autoignation Temperature (°C)	464C (867F)
Explosion Data- Sensitivity to Impact	Above flash point, vapor-air mixtures are explosive within flammable limits noted above. Contact with strong oxidizers may cause fire.
Explosion Data- Sensitivity to Static Discharge	Sealed containers may rupture when heated. Sensitive to static discharge.
Hazardous combustion Products	Closed containers may explode when exposed to extreme temperatures.
Special Fire Fighting Procedures	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Vapors can flow along surfaces to distant ignition source and flash back.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer! If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak, and to flush spills away from exposures. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.
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SECTION 07: HANDLING AND STORAGE

Handling Procedures and Equipment	Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Do Not attempt to clean empty containers since residue is difficult to remove. Do
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	not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, sparks, flame, static electricity or other sources of ignition: they may explode and cause injury or death.
Storage requirements	Store in a cool, dry well-ventilated location, away from any area where the fire hazard may be acute. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Storage and use areas should be No Smoking areas. Use non-sparking type tools and equipment, including explosion proof ventilation.

SECTION 08: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limit	ACGIH TLV	100 ppm
	OSHA PEL	100 ppm (TWA) 150 ppm (STEL), A4 - Not classifiable as a human carcinogen.
	Other	NA
Engineering Controls	General	A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits.
	Local Exhaust	Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, <i>Industrial Ventilation, A Manual of Recommended Practices</i> , most recent edition, for details. Use explosion-proof equipment.
	Other	NA
Personal Protective Equipment	Gloves	Use chemical resistant gloves and avoid prolonged or repeated skin contact.
	Respirator	If the exposure limit is exceeded and engineering controls are not feasible, a half-face organic vapor respirator may be worn for up to ten times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece organic vapor respirator may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. Where respirators are required, you must have a written program covering the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.
	Eye	Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.
	Footwear	Remove contaminated shoes and thoroughly clean and dry before use.
	Clothing	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
	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

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Odor Threshold (ppm)	NA
Specific Gravity (Water=1)	0.86 g/cm3
Vapor Density (air = 1)	NA
Vapor Pressure (mmHg)	8 mm Hg @ 68 F (20 C)
Evaporation Rate	0.7 (n-Butyl Acetate=1.0)
Flammability Class	3
Boiling Point °C	137 - 140C (279 - 284F)
Freezing Point °C	NA
Volatile % By Weight	100%
PH	NA
Coefficient of Water / Oil Distribution	NA
VOC	860 g/L
Solubility in Water	Insoluble

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under ordinary conditions of use and storage.
Incompatibility With Other Substances	Strong oxidizing agents and strong acids.
Reactivity	NA
Hazardous Decomposition Products	Involvement in a fire causes formation of carbon monoxide and unidentified organic components.
Condition to Avoid	Heat, flames, ignition sources and incompatibles.

SECTION 11: TOXICOLOGICAL INFORMATION

Effects on Acute Exposure	Aspiration into lungs when swallowed or vomited may cause chemical pneumonitis which can be fatal.
Effects on Chronic Exposure	Chronic inhalation can cause headache, loss of appetite, nervousness and pale skin. Repeated or prolonged skin contact may cause a skin rash. Repeated exposure of the eyes to high concentrations of vapor may cause reversible eye damage. Repeated exposure can damage bone marrow, causing low blood cell count. May damage the liver and kidneys.
Irritancy of Product	Irritating to skin. Moderately irritating to eyes (but insufficient to classify). Inhalation of vapors or mists may cause irritation to the respiratory system.
Skin Sensitization	Not a skin sensitizer.
Respiratory sensitization	NA
Carcinogenicity	This product contains ethyl benzene. The International Agency for Research on Cancer has evaluated ethyl benzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans.
Other Toxicity Information	Central nervous system: repeated exposure affects the nervous system. Effects were seen at high doses only. Respiratory system: repeated exposure affects the respiratory system. Effects were seen at high doses only. Visual system: may cause decreased color perception. These subtle changes have not been found to lead to functional color vision deficits. Auditory system: prolonged and repeated exposures to high concentrations have resulted in hearing loss in rats. Solvent abuse and noise interaction in the work environment may cause hearing loss.
Reproductive Toxicity	Does not impair fertility

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Teratogenicity	NA
Embryotoxicity	NA
Mutagenicity	Not mutagenic.
Name of Synergistic Products / Effects	NA

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity	Environmental Fate: Following data for xylene: When released into the soil, this material may evaporate to a moderate extent. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material may biodegrade to a moderate extent. When released into water, this material may evaporate to a moderate extent. When released into water, this material may biodegrade to a moderate extent. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day. This material is not expected to significantly bioaccumulate. (mixed xylenes: octanol / water partition coefficient 3.1 - 3.2; bioconcentration factor = 1.3, eels) Environmental Toxicity: For xylene: This material is expected to be slightly toxic to aquatic life. The LC50/96-hour values for fish are between 10 and 100 mg/l.
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SECTION 13: DISPOSABLE CONSIDERATIONS

Waste Disposal	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements
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SECTION 14: TRANSPORT INFORMATION

Special Shipping Name	XYLENES
DOT	Proper Shipping Name: RQ, XYLENES Hazard Class: 3 UN/NA: UN1307 Packing Group: III
TDG	NA
IMO	Proper Shipping Name: RQ, XYLENES Hazard Class: 3 UN/NA: UN1307 Packing Group: III
ICAO	NA
ERAP	NA

SECTION 15: REGULATORY INFORMATION

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

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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 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
1330-20-7	Xylene	10-20	

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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