

MATERIAL SAFETY DATA SHEET

Solvent Based Dyes


SECTION 01: PRODUCT IDENTIFICATION

Product Identifier:	Solvent Based Dye
Product Use:	Concrete Stain
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:	January 19,2001
Revision Date of MSDS:	April 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:	W%	CAS#	OSHA PEL	TLV	LD50
Dyes	1.0-2.0	Proprietary	NA	NA	NA
Dimethylketone	98.0- 99.0	67-64-1	NA	500 ppm	>5.8 g/kg (Oral Rat)

SECTION 03: HAZARDOUS IDENTIFICATION

Route of Entry:	Skin, Eye, Inhalation, Ingestion
Skin Contact:	Irritating due to de-fatting action on skin. Causes redness, pain, drying and cracking of the skin.
Skin Absorption:	This product partially absorbed by the skin and may cause dermatitis and allergic responses.
Eye Contact:	Vapors are irritating to the eyes. Splashes may cause severe irritation with stinging, tearing, redness and pain.
Inhalation:	Inhalation of vapors irritates the respiratory tract. May cause coughing, dizziness, dullness, and headache. Higher concentrations can produce central nervous system depression, narcosis and unconsciousness.
Ingestion:	Swallowing small amounts is not likely to produce harmful effects. Ingestion of larger amounts may produce abdominal pain, nausea and vomiting. Aspiration into lungs can produce severe lung damage and is a medical emergency. Other systems are expected to parallel inhalation.
Emergency Overview:	Overexposure to solvents may cause permanent brain and nervous system damage. Reports also indicate that solvents can cause liver damage, and mucous membrane irritation. Interiorly misuse by deliberately inhaling the vapors or the product contents may be harmful or fatal.
WHMIS Symbols:	
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 of liquid into lungs. GET MEDICAL ATTENTION IMMEDIATELY.

SECTION 05: FIRE FIGHTING MEASURES

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Flammable (Yes / No)	Yes
Yes	Flammable liquid
Means of Extinction	Carbon dioxide, dry chemical powder, "alcohol" foam, polymer foam. Water may be ineffective because it will not cool acetone below its flash point.
Flash Point (CC / Method)	-18 C (- 28 F)
Upper Flammable Limit (% by Volume in air)	12.8% at 25 C
Lower Flammable Limit (% by Volume in air)	2.5% at 25 C
Autoignation Temperature (°C)	465 C (869 F)
Explosion Data- Sensitivity to Impact	No
Explosion Data- Sensitivity to Static Discharge	Yes
Hazardous combustion Products	Carbon monoxide and carbon monoxide
Special Fire Fighting Procedures	Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures	Remove all sources of ignition. Wear protective equipment during cleanup. Ventilate area. Keep spectators away. Floor may be slippery. Contain spill with inert material or absorbent such as sawdust, vermiculite or sand. Do not allow material to enter drain or waterways.
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SECTION 07: HANDLING AND STORAGE

Handling Procedures and Equipment	Use in a well ventilated area, away from heat and all ignition sources (including sparks, open flames, and hot surfaces). Do not use with incompatible substances. Use grounded and non-sparking equipment.
Storage requirements	Store in cool, well-ventilated area out of sunlight, away from heat and ignition sources. Storage facilities should be made from fire- resistant materials.

SECTION 08: EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limit	ACGIH TLV	See Section 2
	OSHA PEL	See Section 2
	Other	NA
Engineering Controls	General	General ventilation is required during normal use.
	Local Exhaust	Local ventilation may be required during certain operations that generate fumes or spray mists.
	Other	NA
Personal Protective Equipment	Gloves	Use butyl rubber gloves.
	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	Splash proof safety goggles
	Footwear	Safety shoes are recommended.
	Clothing	Long sleeved cover-alls
	Other	NA

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
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Odor and Appearance	Mildly fruity odor, dark liquid
Odor Threshold (ppm)	62 average
Specific Gravity (Water=1)	0.79 g/cm ³
Vapor Density (air = 1)	2.0
Vapor Pressure (mmHg)	24 mm kpa
Evaporation Rate	5.6 (n-butyl acetate=1)
Flammability Class	3
Boiling Point °C	56.0
Freezing Point °C	- 94.6
Volatile % By Weight	98%
PH	NA
Coefficient of Water / Oil Distribution	0.58
VOC	NA
Solubility in Water	Soluble

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable
Incompatibility With Other Substances	Yes. With acids for example nitric acid, with strong oxidizing agents for example hydrogen peroxide, with bases for example sodium hydroxide.
Reactivity	Attacks many forms of plastics and rubber, including rayon.
Hazardous Decomposition Products	Carbon dioxide from prolonged exposure to sunlight

SECTION 11: TOXICOLOGICAL INFORMATION

Effects on Acute Exposure	Irritation, possible effects on central nervous system (CNS), at air concentrations above 8000 ppm may cause drowsiness, incoordination, loss of reflexes, unconsciousness, and respiratory failure.
Effects on Chronic Exposure	Dermatitis. No significant harmful effects from oral or inhalation exposure.
Irritancy of Product	Yes. Severe eye irritant, skin and respiratory irritant.
Skin Sensitization	No
Respiratory sensitization	No
Carcinogenicity	No
Other Toxicity Information	NA
Reproductive Toxicity	No
Teratogenicity	No
Embryotoxicity	No
Mutagenicity	No
Name of Synergistic Products / Effects	Yes, Chlorinated solvents, ethyl alcohol

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity	NA
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SECTION 13: DISPOSABLE CONSIDERATIONS

Waste Disposal	Allow the absorbed material to dry and landfill the solids in accordance with current federal, state, provincial and local regulations.
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SECTION 14: TRANSPORT INFORMATION

Special Shipping Information	Acetone
UN	UN1090
TDG	UN1090, Acetone, Flammable Liquids, Class 3 , PGII
DOT	UN1090, Acetone, Flammable Liquids, Class 3 , PGII
IMO	NA
ICAO	NA
ERAP	NA

SECTION 15: REGULATORY INFORMATION

OSHA Regulated	NA
NTP	NA
Canadian WHMIS Classification	B2 , D2B
NFPA Rating	Health: 2, Flammability: 3, Reactivity: 0

SECTION 16: OTHER INFORMATION

Regulatory Information	This material is not considered as a hazardous substance as defined by SARA title 111 regulations (40 CFR 372).
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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.