MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier	**Spartacote Vivid Dye**
Version #	01
Issue date	15-July-2015
Revision date	-
Supersedes date	-
CAS #	Mixture
Product use	Concrete dye.
Manufacturer information	
Company Name	LATICRETE International
Address	1 Laticrete Park, N Bethany, CT 06524
Telephone	(203)-393-0010
Contact person	Steve Fine
Website	www.laticrete.com
Emergency phone number	Call ChemTel day or night USA/Canada - 1.800.255.3924 Mexico - 1.800.099.0731 Outside USA/Canada 1.813.248.0585

2. Hazards Identification

Emergency overview	WARNING Combustible liquid and vapor. May cause drowsiness and dizziness.
Potential health effects	
Routes of exposure	Eye contact. Skin contact.
Eyes	May cause eye irritation.
Skin	May cause skin irritation on prolonged or repeated contact.
Inhalation	In high concentrations, vapors may be irritating to the respiratory system. May cause drowsiness or dizziness.
Ingestion	May cause discomfort if swallowed.
Target organs	Eyes. Skin.
Chronic effects	No data available.
Signs and symptoms	Exposed individuals may experience eye tearing, redness, and discomfort.
Potential environmental effects	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

3. Composition / Information on Ingredients

Components	CAS #	Percent
1-Methoxy-2-propanol	107-98-2	50 - 60
Dipropylene glycol monomethyl ether	34590-94-8	20 - 30
Chromium	7440-47-3	10 - 20

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.
Skin contact	Wash skin with soap and water. Get medical attention if symptoms occur.
Eye contact	Remove contact lenses, if present and easy to do. Get medical attention if symptoms persist.
Ingestion	Rinse mouth. Do not induce vomiting. Get medical attention if any discomfort continues.
Notes to physician	Treat symptomatically.
General advice	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Flammable properties	Combustible liquid and vapor.
Extinguishing media	
Suitable extinguishing media	Alcohol resistant foam. Water fog. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Protection of firefighters	
Specific hazards arising from the chemical	By heating and fire, irritating vapors/gases may be formed.
Protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.
Explosion data	
Sensitivity to static discharge	Not sensitive.
Sensitivity to mechanical impact	Not sensitive.
Hazardous combustion products	Carbon monoxide and carbon dioxide.

6. Accidental Release Measures

Personal precautions	Wear appropriate protective equipment and clothing during clean-up. Keep away from sources of ignition - No smoking. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
Environmental precautions	Environmental manager must be informed of all major releases.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Should not be released into the environment. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.
Other information	Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling	Do not breathe mist or vapor. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. The product is a combustible liquid. Take the necessary precautionary measures. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Storage Keep container tightly closed. Store in a cool and well-ventilated place. Follow rules for combustible liquids.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	100 ppm
	TWA	50 ppm
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	150 ppm
	TWA	100 ppm

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Type	Value
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	553 mg/m3
		150 ppm
	TWA	369 mg/m3
		100 ppm
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	909 mg/m3
		150 ppm
	TWA	606 mg/m3
		100 ppm

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Type	Value
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	75 ppm
	TWA	50 ppm
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	150 ppm
	TWA	100 ppm

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

Components	Type	Value
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	100 ppm
	TWA	50 ppm
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	150 ppm
	TWA	100 ppm

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	150 ppm
	TWA	100 ppm
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Type	Value
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	150 ppm
	TWA	100 ppm

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Type	Value
1-Methoxy-2-propanol (CAS 107-98-2)	STEL	553 mg/m3
		150 ppm
	TWA	369 mg/m3
		100 ppm
Chromium (CAS 7440-47-3)	TWA	0.5 mg/m3
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	STEL	909 mg/m3
		150 ppm
	TWA	606 mg/m3
		100 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Chromium (CAS 7440-47-3)	PEL	1 mg/m3
Dipropylene glycol monomethyl ether (CAS 34590-94-8)	PEL	600 mg/m3
		100 ppm

Exposure guidelines

Canada - Alberta OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Canada - British Columbia OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Canada - Manitoba OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Canada - Ontario OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Canada - Quebec OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Canada - Saskatchewan OELs: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Dipropylene glycol monomethyl ether (CAS 34590-94-8) Can be absorbed through the skin.

Engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide adequate ventilation and minimize the risk of inhalation of vapors.

Personal protective equipment

Eye / face protection Wear approved safety glasses or goggles.

Skin protection Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves. Rubber gloves are recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

9. Physical & Chemical Properties

Appearance Liquid, various colors.

Physical state Liquid.

Form Liquid.

Color	Various colors.
Odor	Slight.
Odor threshold	Not available.
pH	6 - 10
Vapor pressure	Not available.
Vapor density	Not available.
Boiling point	> 230 °F (> 110 °C)
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity	1.06
Flash point	109.4 °F (43.0 °C)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.
VOC	62.9 %
Evaporation rate	Not available.
Partition coefficient (n-octanol/water)	Not available.
Other data	
Flammability (solid, gas)	Not applicable.

10. Chemical Stability & Reactivity Information

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon dioxide (CO2). Carbon monoxide.
Possibility of hazardous reactions	Will not occur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
1-Methoxy-2-propanol (CAS 107-98-2)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	3739 mg/kg
Dipropylene glycol monomethyl ether (CAS 34590-94-8)		
Acute		
Dermal		
LD50	Rabbit	9.5 g/kg
Inhalation		
LC50	Rat	> 500 ppm, 7 Hours

Acute effects	May cause discomfort if swallowed.
Sensitization	Not a skin sensitizer.
Local effects	Causes eye irritation.
Chronic effects	No data available.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

ACGIH Carcinogens

1-Methoxy-2-propanol (CAS 107-98-2)	A4 Not classifiable as a human carcinogen.
Chromium (CAS 7440-47-3)	A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Chromium (CAS 7440-47-3)	3 Not classifiable as to carcinogenicity to humans.

Skin corrosion/irritation May cause skin irritation on prolonged or repeated contact.

Serious eye damage/irritation May cause eye irritation on direct contact.

Mutagenicity Not available.

Reproductive effects No data available.

Teratogenicity Not available.

Symptoms and target organs Exposed individuals may experience eye tearing, redness, and discomfort.

Synergistic materials Not available.

12. Ecological Information

Ecotoxicological data No ecotoxicity data noted for the ingredient(s).

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Aquatic toxicity Not classified.

Persistence and degradability The product is readily biodegradable.

Bioaccumulation / accumulation Not likely to bioaccumulate in aquatic organisms.

Mobility in environmental media No data available.

13. Disposal Considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

TDG

UN number	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (1-Methoxy-2-propanol)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	No
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.

IATA

UN number	UN1993
UN proper shipping name	Flammable liquid, n.o.s. (1-Methoxy-2-propanol)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Environmental hazards	No
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN1993
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (1-Methoxy-2-propanol)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Environmental hazards	
Marine pollutant	No
EmS	F-E, S-E
Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.
General information	IATA classification is not relevant as the material is not transported by air.

15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS status Controlled

WHMIS classification B3 - Combustible Liquids

WHMIS labeling

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

NFPA ratings Health: 1
Flammability: 2
Instability: 0

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