1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>Spartacote Vivid Dye</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version #</td>
<td>01</td>
</tr>
<tr>
<td>Issue date</td>
<td>15-July-2015</td>
</tr>
<tr>
<td>Revision date</td>
<td>-</td>
</tr>
<tr>
<td>Supersedes date</td>
<td>-</td>
</tr>
<tr>
<td>CAS #</td>
<td>Mixture</td>
</tr>
<tr>
<td>Product use</td>
<td>Concrete dye.</td>
</tr>
</tbody>
</table>

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

**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

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol</td>
<td>107-98-2</td>
<td>50 - 60</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether</td>
<td>34590-94-8</td>
<td>20 - 30</td>
</tr>
<tr>
<td>Chromium</td>
<td>7440-47-3</td>
<td>10 - 20</td>
</tr>
</tbody>
</table>

**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**
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.
8. Exposure Controls / Personal Protection

Occupational exposure limits

**US. ACGIH Threshold Limit Values**

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

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

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

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

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

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

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

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol (CAS 107-98-2)</td>
<td>STEL</td>
<td>150 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
</tr>
</tbody>
</table>
### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dipropylene glycol monomethyl ether (CAS 34590-94-8)</td>
<td>STEL</td>
<td>150 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chromium (CAS 7440-47-3)</td>
<td>PEL</td>
<td>1 mg/m³</td>
</tr>
<tr>
<td>Dipropylene glycol monomethyl ether (CAS 34590-94-8)</td>
<td>PEL</td>
<td>600 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm</td>
</tr>
</tbody>
</table>

**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

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

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
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

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

* 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

Disclaimer
  The information in this (M)SDS was obtained from sources which we believe are reliable but cannot guarantee. Additionally, your use of this information is beyond our control and may be beyond our knowledge. Therefore, the information is provided without any representation or warranty express or implied.

Prepared by
  LATICRETE International