SAFETY DATA SHEET

1. Identification

Product identifier: LATICRETE Spectralock Pro Part B

Other means of identification: None.

Recommended use of the chemical and restrictions on use

Recommended use: Grout.

Restrictions on use: Not available.

Details of manufacturer or importer

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 CHEMTREC day or night
USA/Canada - 1.800.424.9300
Mexico - 1.800.681.9531
Outside USA/Canada - 1.703.527.3887

Supplier

Company name: LATICRETE Australia
Address: P.O. Box 508
Virginia Business Mail Centre
29 Telford Street
VIRGINIA QLD 4014
Australia
Telephone: (61) (7) 3865-1599
Website: www.laticrete.com
Emergency phone number: 1.703.527.3887

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards: Not classified.

Health hazards: Skin corrosion/irritation - Category 2
Serious eye damage/eye irritation - Category 2
Sensitization, skin - Category 1

Environmental hazards: Hazardous to the aquatic environment, acute hazard - Category 2
Hazardous to the aquatic environment, long-term hazard - Category 2

Label elements, including precautionary statements

Hazard symbol(s)

Exclamation mark
Environmental mark

Signal word: Warning
Hazard Statement(s)
Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)
Prevention
Avoid breathing mist or vapour. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves and eye/face protection. Avoid release to the environment.

Response
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Collect spillage.

Storage
Store away from incompatible materials.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification
None known.

Supplemental information
None.

3. Composition/information on ingredients
Mixture
Identity of chemical ingredients | CAS number and other unique identifiers | Concentration of ingredients
--- | --- | ---
Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers | 25085-99-8 | 44 - 52
Bisphenol F epoxy resin | 9003-36-5 | 9 - 18
Alkyl(C12-14) glycidyl ether | 68609-97-2 | 6 - 10
Dialkylaminobenzoic ester | 57834-33-0 | 0.8 - 2.4
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 41556-26-7 | 0.6 - 1.8
Ethylene glycol | 107-21-1 | 0.6 - 1
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 82919-37-7 | 0.1 - 0.95

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
Description of necessary first aid measures
Inhalation
Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact
Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact
Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion
Rinse mouth. Get medical attention if symptoms occur.

Personal protection for first-aid responders
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Wash contaminated clothing before reuse.

Symptoms caused by exposure
Rash. Irritant effects.

Medical attention and special treatment
Provide general supportive measures and treat symptomatically.

5. Fire-fighting measures
Extinguishing media
Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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.

Hazchem Code

3Z

General fire hazards

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

For emergency responders

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground. Environmental manager must be informed of all releases.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. 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.

Other issues relating to spills and releases

Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.

7. Handling and storage

Precautions for safe handling

Do not breathe mist or vapour. Do not get in eyes, on skin, on clothing. Persons susceptible for allergic reactions should not handle this product. Use with adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a cool and well-ventilated place. Store away from incompatible materials (See Section 10).

8. Exposure controls and personal protection

Control parameters

Follow standard monitoring procedures.

Occupational exposure limits

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td>STEL</td>
<td>104 mg/m3</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>40 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 ppm</td>
</tr>
</tbody>
</table>

Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td>STEL</td>
<td>104 mg/m3</td>
<td>Vapour.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>40 ppm</td>
<td>Vapour.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>52 mg/m3</td>
<td>Vapour.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m3</td>
<td>Particulate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 ppm</td>
<td>Vapour.</td>
</tr>
</tbody>
</table>
US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td>Ceiling</td>
<td>100 mg/m³</td>
<td>Aerosol</td>
</tr>
</tbody>
</table>

UK. EH40 Workplace Exposure Limits (WELs)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td>STEL</td>
<td>104 mg/m³</td>
<td>Vapour.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40 ppm</td>
<td>Vapour.</td>
</tr>
<tr>
<td></td>
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<td>Vapour.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 mg/m³</td>
<td>Particulate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 ppm</td>
<td>Vapour.</td>
</tr>
</tbody>
</table>

TWA 52 mg/m³ Vapour.

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td>TWA</td>
<td>26 mg/m³</td>
<td>Vapor and aerosol.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10 ppm</td>
<td>Vapor and aerosol.</td>
</tr>
</tbody>
</table>

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

Australia OELs: Skin designation

Ethylene glycol (CAS 107-21-1) Can be absorbed through the skin.

Appropriate 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. Ensure adequate ventilation, especially in confined areas. Provide eyewash station.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state

Liquid.

Form

Liquid.

Colour

White.

Odour

Not available.

Odour threshold

Not available.

pH

Not available.

Melting point/freezing point

0 °C (32 °F)

Initial boiling point and boiling range

100 °C (212 °F)

Flash point

Non flammable.

Evaporation rate

Not applicable.

Flammability (solid, gas)

Not applicable.

Vapour pressure

Not applicable.
Vapour density
Not applicable.

Relative density
1.09

Solubility(ies)
- Solubility (water)
  Soluble in water.

Partition coefficient (n-octanol/water)
Not available.

Auto-ignition temperature
Not available.

Decomposition temperature
Not available.

Viscosity
Not available.

10. Stability and reactivity
Reactivity
The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability
Material is stable under normal conditions.

Possibility of hazardous reactions
Masses of more than 1 pound of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build up.

Conditions to avoid
Excessive heat. Contact with incompatible materials.

Incompatible materials
Strong oxidising agents.

Hazardous decomposition products
At thermal decomposition temperatures, carbon monoxide and carbon dioxide. Aldehydes.

11. Toxicological information
Information on possible routes of exposure

Inhalation
No adverse effects due to inhalation are expected.

Skin contact
Irritating to skin. May cause an allergic skin reaction.

Eye contact
Irritating to eyes.

Ingestion
May cause discomfort if swallowed.

Symptoms related to exposure
Rash. Irritant effects.

Acute toxicity
May cause discomfort if swallowed.

Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol F epoxy resin (CAS 9003-36-5)</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>&gt; 5000 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
Causes skin irritation.

Serious eye damage/irritation
Causes serious eye irritation.

Respiratory or skin sensitisation

Respiratory sensitisation
No data available.

Skin sensitisation
May cause an allergic skin reaction.

Germ cell mutagenicity
Not expected to be mutagenic.

Carcinogenicity
Not classifiable as to carcinogenicity to humans.

ACGIH Carcinogens
Ethylene glycol (CAS 107-21-1)
A4 Not classifiable as a human carcinogen.

Reproductive toxicity
This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure
No data available.

Specific target organ toxicity - repeated exposure
Not classified.

Aspiration hazard
No data available.

Chronic effects
Prolonged or repeated contact may cause drying, cracking, or irritation.
### 12. Ecological information

**Ecotoxicity**
Toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol F epoxy resin (CAS 9003-36-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Leuciscus idus</td>
</tr>
<tr>
<td>Ethylene glycol (CAS 107-21-1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
<tr>
<td>Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers (CAS 25085-99-8)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algae</td>
<td>IC50</td>
<td>Algae</td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fish</td>
</tr>
</tbody>
</table>

**Persistence and degradability**
No data is available on the degradability of this product.

**Bioaccumulative potential**
No data available for this product.

**Partition coefficient**
- Ethylene glycol (CAS 107-21-1)
  - n-octanol / water (log Kow) -1.36

**Mobility in soil**
The product is soluble in water.

**Other adverse effects**
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal methods**
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Residual waste**
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**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

**ADG**

<table>
<thead>
<tr>
<th>UN number</th>
<th>Environmentally hazardous substance, liquid, n.o.s. (Bisphenol F epoxy resin, Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (Bisphenol F epoxy resin, Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>9</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>-</td>
</tr>
</tbody>
</table>

**RID**

<table>
<thead>
<tr>
<th>UN number</th>
<th>Environmentally hazardous substance, liquid, n.o.s. (Bisphenol F epoxy resin, Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers)</th>
</tr>
</thead>
<tbody>
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<td>UN proper shipping name</td>
<td>Environmentally hazardous substance, liquid, n.o.s. (Bisphenol F epoxy resin, Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers)</td>
</tr>
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<td>Transport hazard class(es)</td>
<td></td>
</tr>
<tr>
<td>Class</td>
<td>9</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>-</td>
</tr>
</tbody>
</table>
Label(s) 9
Packing group III
Environmental hazards Yes
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA
UN number 3082
UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Bisphenol F epoxy resin, Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers)
Transport hazard class(es) Class 9
Subsidiary risk -
Label(s) 9
Packing group III
Environmental hazards Yes
ERG Code 9L
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG
UN number 3082
UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Bisphenol F epoxy resin, Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-, polymers)
Transport hazard class(es) Class 9
Subsidiary risk -
Label(s) 9
Packing group III
Environmental hazards Marine pollutant Yes
EmS F-A, S-F
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to
Annex II of MARPOL 73/78 and the IBC Code
This substance/mixture is not intended to be transported in bulk.

General information IATA classification is not relevant as the material is not transported by air.

15. Regulatory information
Safety, health and environmental regulations
National regulations This Safety Data Sheet was prepared in accordance with the Australia National Code of Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.)

Australia Medicines & Poisons Appendix E
Ethylene glycol (CAS 107-21-1)

Australia Medicines & Poisons Schedule 10
ETHYLENE GLYCOL (CONC>0.25%) (CAS 107-21-1)

Australia Medicines & Poisons Schedule 5
ETHYLENE GLYCOL (EXCLUDING ITS SALTS AND DERIVATIVES) (CAS 107-21-1)

Australia Medicines & Poisons Schedule 6
ETHYLENE GLYCOL (EXCLUDING ITS SALTS AND DERIVATIVES) (CAS 107-21-1)

Australia National Pollutant Inventory (NPI): Threshold quantity
Ethylene glycol (CAS 107-21-1) 10 TONNES/YR Threshold Category: 1

High Volume Industrial Chemicals (HVIC)
Ethylene glycol (CAS 107-21-1) 10000 - 99999 TONNES See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)
Not listed.

National Pollutant Inventory (NPI) substance reporting list
Not listed.

Prohibited Carcinogenic Substances
Not regulated.
Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)
Not listed.

Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)
Not listed.

Restricted Carcinogenic Substances
Not regulated.

International regulations

Stockholm Convention
Not applicable.

Rotterdam Convention
Not applicable.

Kyoto protocol
Not applicable.

Montreal Protocol
Not applicable.

Basel Convention
Not applicable.

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>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>Yes</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>No</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

Issue date                  08-December-2015
Revision date               19-October-2016

References
HSDB® - Hazardous Substances Data Bank
Registry of Toxic Effects of Chemical Substances (RTECS)

Disclaimer
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