1. Product and Company Identification

Product identifier: Spartacote Flex SB Part B

Version #: 01
Issue date: 19-May-2015
Revision date: -
Supersedes date: -

CAS #: Mixture
Product use: Decorative coating.

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

Flammable liquid and vapor.
Harmful if inhaled. Causes skin, eye and respiratory tract irritation. May cause allergic respiratory and skin reactions. Harmful if swallowed - may enter lungs if swallowed or vomited. May cause central nervous system effects.

Potential health effects

Routes of exposure: Inhalation. Ingestion. Skin contact. Eye contact.

Eyes: Causes eye irritation.

Skin: Causes skin irritation. May cause allergic skin reaction. Defats the skin.

Inhalation: Harmful if inhaled. Causes respiratory tract irritation. May cause allergic respiratory reaction. May cause central nervous system effects.

Ingestion: Swallowing or vomiting of the liquid may result in aspiration into the lungs. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours after exposure.


Chronic effects: May cause central nervous system effects. May cause lung damage.

Signs and symptoms: Irritating to eyes, respiratory system and skin. Irritation of nose and throat. Irritating to mucous membranes. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

Potential environmental effects: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homopolymer of Hexamethylene Diisocyanate</td>
<td>28182-81-2</td>
<td>65-70</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum), light aromatic</td>
<td>64742-95-6</td>
<td>25-33</td>
</tr>
<tr>
<td>Hexamethylene-1, 6-diisocyanate</td>
<td>822-06-0</td>
<td>0.5 - 0.8</td>
</tr>
<tr>
<td>Hydroxyphenyl - benzotriazole derivatives</td>
<td>104810-48-2</td>
<td>0.4-0.6</td>
</tr>
</tbody>
</table>
Components | CAS # | Percent
---|---|---
Hydroxyphenyl-benzotriazole derivatives | 104810-47-1 | 0.4-0.6
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 41556-26-7 | 0.2-0.3

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**: Move into fresh air and keep at rest. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.

**Skin contact**: Flush thoroughly with water for at least 15 minutes. If skin rash or an allergic skin reaction develops, get medical attention. Get medical attention if irritation develops and persists.

**Eye contact**: Remove contact lenses, if present and easy to do. Flush thoroughly with water for at least 15 minutes. Get medical attention immediately.

**Ingestion**: Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable take to hospital along with these instructions. Get medical attention if symptoms occur.

Notes to physician: Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. Treat symptomatically. Symptoms may be delayed.

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**: The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures.

**Extinguishing media**: Water spray, carbon dioxide, dry chemical or alcohol-resistant foam.

**Protection of firefighters**: During fire, gases hazardous to health may be formed. Solvent vapors may form explosive mixtures with air.

**Specific hazards arising from the chemical**: Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Selection of respiratory protection for firefighting**: Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. Move containers from fire area if you can do it without risk.

6. Accidental Release Measures

**Personal precautions**: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Do not breathe mist or vapor. Avoid contact with skin and eyes. Local authorities should be advised if significant spillages cannot be contained. Stay upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Ventilate closed spaces before entering.

**Environmental precautions**: Prevent further leakage or spillage if safe to do so. Do not contaminate water.

**Methods for containment**: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.
Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. This product is miscible in water.

Large Spills: Dike the spilled material, where this is possible. Following product recovery, flush area with water. Cover with plastic sheet to prevent spreading. Absorb spillage with non-combustible, absorbent material.

Small Spills: Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use.

Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling

The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Do not handle or store near an open flame, heat or other sources of ignition. Avoid inhalation of vapors or mists. Avoid contact with skin, eyes and clothing. Do not smoke. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Use only in well-vented areas. Avoid prolonged exposure. Use Personal Protective Equipment recommended in section 8 of the MSDS. Wash thoroughly after handling. Handle and open container with care.

Storage


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>Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)</td>
<td>TWA</td>
<td>0.005 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>Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)</td>
<td>TWA</td>
<td>0.03 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.005 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>Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)</td>
<td>Ceiling</td>
<td>0.01 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0.005 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>Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)</td>
<td>TWA</td>
<td>0.005 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>Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)</td>
<td>Ceiling</td>
<td>0.02 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0.005 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>Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)</td>
<td>TWA</td>
<td>0.034 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.005 ppm</td>
</tr>
</tbody>
</table>

Exposure guidelines
Follow standard monitoring procedures.

Engineering controls
Explosion proof exhaust ventilation should be used. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment. Provide easy access to water supply or an emergency shower.

Personal protective equipment
Eye / face protection
Wear goggles/face shield.

Skin protection
Wear appropriate chemical resistant gloves. Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations. Wear chemical protective equipment that is specifically recommended by the Personal Protective Equipment manufacturer. Wear appropriate chemical resistant clothing.

Respiratory protection
In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

9. Physical & Chemical Properties
Appearance

| Physical state | Liquid. |
| Form          | Liquid.  |
| Color         | Not available. |
| Odor          | Not available. |
| Odor threshold| Not available. |
| pH            | Not available. |
| Vapor pressure| 11 mm Hg (100°F) |
| Vapor density | 3.99 (air = 1) |
| Boiling point | 280 °F (137.78 °C) |
| Melting point/Freezing point | Not available. |
| Solubility (water) | Insoluble |
| Specific gravity | 1.045 |
| Flash point   | 115.0 °F (46.1 °C) |
| Flammability limits in air, upper, % by volume | 6.4 % |
| Flammability limits in air, lower, % by volume | 0.9 % |
| Auto-ignition temperature | Not available. |
| Evaporation rate | Not available. |
| Partition coefficient (n-octanol/water) | Not available. |

Other data
Oxidizing properties
Not oxidizing.

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

Chemical stability
Risk of ignition. Stable at normal conditions.

Conditions to avoid
Heat, flames and sparks.

Incompatible materials

Hazardous decomposition products
11. Toxicological Information

Toxicological data

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bis(1,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS 41556-26-7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td>Oral</td>
<td>Rat</td>
</tr>
<tr>
<td>Homopolymer of Hexamethylene Diisocyanate (CAS 28182-81-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td>Inhalation</td>
<td>Rat</td>
</tr>
</tbody>
</table>

Toxicological information

Occupational exposure to the substance or mixture may cause adverse effects.

Acute effects

Harmful if inhaled.

Sensitization

May cause allergic respiratory and skin reactions.

Local effects

Irritating to eyes, respiratory system and skin. May cause drowsiness or dizziness.

Chronic effects

May cause central nervous system effects. May cause lung damage.

Carcinogenicity

Not classified.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Reproductive effects

Not classified.

Teratogenicity

Not classified.

Symptoms and target organs

Irritating to eyes, respiratory system and skin. Irritation of nose and throat. Irritating to mucous membranes.

Synergistic materials

Not available.

Further information

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

12. Ecological Information

Ecotoxicological data

<table>
<thead>
<tr>
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<td></td>
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<tr>
<td>Aquatic</td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td>Hydroxyphenyl - benzotriazole derivatives (CAS 104810-48-2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td>Algae</td>
<td>EC50</td>
</tr>
<tr>
<td></td>
<td>Crustacea</td>
<td>EC50</td>
</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50</td>
</tr>
<tr>
<td>Hydroxyphenyl-benzotriazole derivatives (CAS 104810-47-1)</td>
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<td></td>
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<td>EC50</td>
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<td></td>
<td>Crustacea</td>
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</tr>
<tr>
<td></td>
<td>Fish</td>
<td>LC50</td>
</tr>
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</table>
## Components Test Results

<table>
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<tr>
<td>Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)</td>
<td></td>
</tr>
<tr>
<td><strong>Aquatic</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Acute</strong></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EL50</td>
</tr>
<tr>
<td>Fish</td>
<td>LL50</td>
</tr>
</tbody>
</table>

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

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

### Aquatic toxicity
Toxic to aquatic life.

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

### Other adverse effects
No data available.

## 13. Disposal Considerations

### Disposal instructions
Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Dispose in accordance with all applicable regulations.

### Waste from residues / unused products
Dispose of in accordance with local regulations.

### Contaminated packaging
Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport Information

### TDG
- **UN number**: UN1139
- **UN proper shipping name**: COATING SOLUTION
- **Class**: 3
- **Subsidiary risk**: -
- **Packing group**: III
- **Environmental hazards**: Yes
- **Special precautions for user**: Read safety instructions, MSDS and emergency procedures before handling.

### IATA
- **UN number**: UN1139
- **UN proper shipping name**: Coating solution
- **Class**: 3
- **Subsidiary risk**: -
- **Label(s)**: 3
- **Packing group**: III
- **Environmental hazards**: Yes
- **ERG Code**: 3L
- **Special precautions for user**: Read safety instructions, SDS and emergency procedures before handling.

### IMDG
- **UN number**: UN1139
- **UN proper shipping name**: COATING SOLUTION
- **Class**: 3
- **Subsidiary risk**: -
- **Label(s)**: 3
- **Packing group**: III
- **Environmental hazards**: Yes
- **Marine pollutant**: Yes
- **EmS**: F-E, S-E
- **Special precautions for user**: Read safety instructions, MSDS and emergency procedures before handling.
- **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
D1A - Immediate/Serious-VERY TOXIC
D2A - Other Toxic Effects-VERY TOXIC
D2B - Other Toxic Effects-TOXIC

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>No</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

HMIS® ratings
Health: 2
Flammability: 2
Physical hazard: 0

NFPA ratings
Health: 2
Flammability: 2
Instability: 0

Disclaimer
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Prepared by
LATICRETE International