



MATERIAL SAFETY DATA SHEET

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
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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
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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.

Target organs Eyes. Skin. Respiratory system. Central nervous system.
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

Components	CAS #	Percent
Homopolymer of Hexamethylene Diisocyanate	28182-81-2	65-70
Solvent naphtha (petroleum), light aromatic	64742-95-6	25-33
Hexamethylene-1, 6-diisocyanate	822-06-0	0.5 - 0.8
Hydroxyphenyl - benzotriazole derivatives	104810-48-2	0.4-0.6

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

Suitable extinguishing media Water spray, carbon dioxide, dry chemical or alcohol-resistant foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Protection of firefighters

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed. Solvent vapors may form explosive mixtures with air.

Protective equipment for firefighters 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.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. 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.

Explosion data

Sensitivity to static discharge Vapors may be ignited by static discharge.

Sensitivity to mechanical impact Risk of explosion by shock, friction, fire or other sources of ignition.

Hazardous combustion products Carbon monoxide. Carbon dioxide. Nitrogen oxides.

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.

Methods for cleaning up

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.

Other information

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-ventilated 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

Follow rules for flammable liquids. Keep away from heat, sparks and open flame. Store in cool place. Keep in a well-ventilated place. Keep container tightly closed. Keep in an area equipped with sprinklers. Keep this material away from food, drink and animal feed. Use care in handling/storage. Keep away from sources of ignition - No smoking.

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)	TWA	0.005 ppm

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

Components	Type	Value
Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)	TWA	0.03 mg/m ³
		0.005 ppm

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

Components	Type	Value
Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)	Ceiling	0.01 ppm
	TWA	0.005 ppm

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

Components	Type	Value
Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)	TWA	0.005 ppm

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

Components	Type	Value
Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)	Ceiling	0.02 ppm
	TWA	0.005 ppm

Components	Type	Value
Hexamethylene-1,6-diisocyanate (CAS 822-06-0)	TWA	0.034 mg/m ³ 0.005 ppm
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	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	Carbon monoxide. Carbon dioxide. Nitrogen oxides.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS 41556-26-7)		
Acute		
<i>Oral</i>		
LD50	Rat	2369 - 4247 mg/kg
Homopolymer of Hexamethylene Diisocyanate (CAS 28182-81-2)		
Acute		
<i>Inhalation</i>		
LC50	Rat	4.62 mg/l, 4 h
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

Components	Species	Test Results	
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS 41556-26-7)			
Aquatic			
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	1 mg/l, 96 Hours
Hydroxyphenyl - benzotriazole derivatives (CAS 104810-48-2)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Algae	> 9 mg/l, 72 hours
Crustacea	EC50	Daphnia magna	4 mg/l, 48 hours
Fish	LC50	Oncorhynchus masou ishikawae	2.8 mg/l, 96 hours
Hydroxyphenyl-benzotriazole derivatives (CAS 104810-47-1)			
Aquatic			
<i>Acute</i>			
Algae	EC50	Algae	> 9 mg/l, 72 hours
Crustacea	EC50	Daphnia magna	4 mg/l, 48 hours
Fish	LC50	Oncorhynchus masou ishikawae	2.8 mg/l, 96 hours

Components	Species	Test Results
Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)		
Aquatic		
<i>Acute</i>		
Crustacea	EL50 Daphnia	4.5 mg/l, 48 hours
Fish	LL50 Oncorhynchus mykiss	10 mg/l, 96 hours
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
Transport hazard class(es)	
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
Transport hazard class(es)	
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
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	III
Environmental hazards	
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

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)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
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

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