



For the Builders  
of a Better World™

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# Safety Data Sheet

## 1. PRODUCT IDENTIFICATION

TRADE NAME (as labeled): Guard PA SB Part B

MANUFACTURER'S/ DISTRIBUTOR'S NAME: LATICRETE South East Asia Pte Ltd  
38 Sungei Kadut,  
Street 2 (Level2 A3),  
Singapore 729245.

Phone number for additional information: (65) 6515 3028

Date prepared or revised: 10/04/2023

## 2. COMPOSITION INGREDIENTS

Chemical Names	CAS NUMBERS	Percent
Hexamethylene Diisocyanate, Oligomers	28182-81-2	≈ 75
Xylene	1330-20-7	≈ 12.5
2-Methoxy-1-Methylethyl Acetate	108-65-6	≈ 12.5
Hexamethylene-Di-Isocyanate	822-06-0	< 0.3
Ethylbenzene	100-41-4	< 1

GHS Label Elements: Pictograms:





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### 3. HEALTH HAZARD INFORMATION

#### SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Flam. Liq. 3	H226	Flammable liquid and vapor.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2A	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to the hearing organs through prolonged or repeated

### 4. FIRST AID: EMERGENCY PROCEDURES

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

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.

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

Swallowed : 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.

### 5. FIRE FIGHTING MEASURES

Flash Point method : N/A

Auto ignition temperature (°C) : N/A

Flammable limits in air, volume % : LEL: 0.9 % UEL: 6.4 %

Fire extinguishing materials : Water spray, carbon dioxide, dry chemical or alcohol-resistant foam.



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Special firefighting procedures : Do not use a solid water stream as it may scatter and spread fire. 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.

Unusual fire and explosion hazards : During fire, gases hazardous to health may be formed. Solvent vapors may form explosive mixtures with air. The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures.

## 6. ACCIDENTAL RELEASE MEASURES

Spill response procedures (include employee protection measures) :

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.

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.

NOTE: Dispose of all wastes in accordance with federal, state and local regulations.

## 7. HANDLING AND STORAGE

Precautions for safe 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



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equipment. Use only in well-ventilated areas. Avoid prolonged exposure. Wash thoroughly after handling. Handle and open container with care.

Conditions for safe storage: 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 AND PERSONAL PROTECTION

- Ventilation and 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.
- Respiratory protection (type) : In case of insufficient ventilation, wear suitable respiratory equipment.
- Eye protection (type) : Chemical goggles or safety glasses with side shields. Face shield.
- Gloves (specify material) : Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.
- Other clothing and equipment : Wear clean, long-sleeved, body-covering clothing.
- Work practices, hygienic practices : Maintain good housekeeping standards.
- Other handling and storage requirements : N/A
- Protective measures during maintenance of contaminated equipment: See above.



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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Relative density	: 1.045
Melting point or range, °C	: N/A
Boiling point or range, °C	: 137.78 °C
PH	: N/A
Specific gravity	: N/A
Flash point	: 46.1 °C
Solubility in water	: Insoluble
Vapor density	: 3.99
Vapor pressure	: 11 mm Hg @ 38°C
Appearance and odor	: Liquid

HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust, or mist)

## 10. STABILITY AND REACTIVITY

Stability	: Stable
Conditions to avoid	: Heat, flames and sparks.
Incompatibility (materials to avoid)	: Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	: Carbon monoxide. Carbon dioxide. Nitrogen oxides.
Hazardous polymerization	: Will not occur

## 11. TOXICOLOGY INFORMATION

**Acute toxicity** Harmful if inhaled.



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## Components

## Species

## Test Results

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS 41556-26-7)

### Acute

Oral  
LD50

Rat

2369 – 4247 mg/kg

Homopolymer of Hexamethylene Diisocyanate (CAS 28182-81-2)

### Acute

Inhalation  
LC50

Rat

4.62 mg/l, 4 h

Aspiration hazard  
Further information

May be fatal if swallowed and enters airways  
Droplet of the product aspirated into lungs through ingestions  
or vomiting may cause chemical pneumonia

## 12. ECOLOGICAL INFORMATION

Eco toxicity

Toxic to aquatic life with long lasting effects

## Components

## Species

## Test Result

Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate (CAS 41556-26-7)

Aquatic

Fish LC50

Bluegill (Lepomis  
Macrochirus)

1 mg/l, 96 hours

Hydroxyphenyl-benzotriazole derivatives (CAS 104810-48-2)

Aquatic

Acute

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



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Acute

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

Solvent naphtha (petroleum), light aromatic (CAS 64742-95-6)

Aquatic

Acute

Crustacea EL50	Daphnia	4.5 mg/l, 48 hours
Fish LL50	Oncorhynchus mykiss	10 mg/l, 96 hours

### 13. DISPOSAL CONSIDERATIONS

Dispose in compliance with local, state, and federal regulations.

### 14. TRANSPORT INFORMATION

DOT

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
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provision	B1, IB3, T2, TP1
Packaging exception	150
Packaging non bulk	203
Packaging bulk	242

IATA

UN number	UN1139
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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, <u>S-E</u>
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 Not available

General information

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

## 15. REGULATORY INFORMATION

### US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory Lists.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)



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Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Hexamethylene-1, 6-diisocyanate (CAS 822-06-0) LISTED

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - Yes  
Pressure Hazard - No  
Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 311/312 Hazardous chemical

Yes

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Hexamethylene-1, 6-diisocyanate	822-06-0	0.5 - 0.8

### Other federal regulation

#### Clean Air Act (CAA) Section 112 Hazardous Air pollutants (HAPs) List

Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68. 130)

Not regulated

#### Safe Drinking Water Act (SDWA)

Not regulated

### US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm

#### US. Massachusetts RTK - Substance List

Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)

#### US. New Jersey Worker and Community Right-to-Know Act

Hexamethylene-1, 6-diisocyanate (CAS 822-06-0)

#### US. Pennsylvania Worker and Community Right-to-Know Law



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Not listed

## US. Rhode Island RTK

Hexamethylene-1, 6-disisocyanate (CAS 822-06-0)

## US. California Proposition 65

Not listed.

### 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

*This information is furnished without warranty, representation, inducement or license of any kind; except that it is accurate to the best of our knowledge, or obtained from sources believed by us to be accurate.*