



## SAFETY DATA SHEET

Print date: 04/20/2016

Revision Date: 04/20/2016

Revision Number: 1.01

### 1. COMPANY AND PRODUCT IDENTIFICATION

**Product identifier**

**Product Name:** SynDeck® 1.5 IMO Underlayment Part B Hardener SB1295

**Product code:** SB1295

**Other means of identification**

**Synonyms** No information available

**Application**

**Recommended Use** Underlayment

**Uses advised against** For industrial use only

**Supplier/Manufacturer:**

**Supplier:**

EPMAR Corporation  
13240 E. Barton Circle  
Whittier, CA 90605-3254  
Phone: 562-946-8781  
FAX: 562-944-9958  
E-mail: she@quakerchem.com  
(For Health and Safety Questions)

**Emergency telephone number:**

\* 24 HOUR TRANSPORTATION:  
\*\*CHEMTREC: 1-800-424-9300  
+703-527-3887 (Call collect outside of US)  
\* 24 HOUR EMERGENCY HEALTH & SAFETY:  
\*\*(800) 523-7010 (Within US only) Outside of US call (703)  
527-3887

### 2. HAZARDS IDENTIFICATION

**Classification**

## OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Oral	Category 2
Acute Toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin Sensitization	Category 1
Reproductive toxicity	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

## Label Elements

### Emergency Overview

#### DANGER

#### Hazard Statements

fatal if swallowed  
Harmful in contact with skin  
Causes severe skin burns and eye damage  
May cause an allergic skin reaction  
Suspected of damaging fertility or the unborn child  
Very toxic to aquatic life with long lasting effects



**Appearance** Clear, Amber

**Physical State** Liquid

**Odor** Amine

#### Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Do not breathe dust/fume/gas/mist/vapors/spray  
Contaminated work clothing should not be allowed out of the workplace  
wear protective gloves  
Avoid release to the environment

#### Precautionary Statements - Response

Specific treatment (see First Aid on this label)  
Immediately call a POISON CENTER or doctor/physician  
Specific treatment (see First Aid on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician  
Call a POISON CENTER or doctor/physician if you feel unwell Wash contaminated clothing before reuse IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower If skin irritation or rash occurs: Get medical advice/attention  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Rinse mouth Do not induce vomiting  
Collect spillage

#### Precautionary Statements - Storage

Store locked up

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None known

#### Other Information

None known.

Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No	Weight %
Trimethylolpropane polyoxypropylene triamine	39423-51-3	20 - 30%
1,3-Benzenedimethanamine	1477-55-0	20 - 30%
Poly[oxy(methyl-1,2-ethanediyl)], a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-	9046-10-0	15 - 20%
Para-nonylphenol	84852-15-3	15 - 20%
Aromatic alcohol	100-51-6	15 - 20%
Isophorone diamine	2855-13-2	5 - 10%
Hydroxy Benzoic Acid	69-72-7	1 - 5%

Physico-chemical properties: Corrosive

The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**General advice:** Show this safety data sheet to the doctor in attendance Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and water. Consult a physician.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

**Skin contact:** Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.

<b>Ingestion:</b>	If swallowed, seek medical advice immediately and show this container or label. Never give anything by mouth to an unconscious person Do not induce vomiting without medical advice.
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of vapors. If breathing is difficult, give oxygen If not breathing, give artificial respiration Consult a physician.
<b>Note to physician:</b>	Treat symptomatically. In case of ingestion, the stomach should be emptied by gastric lavage under qualified medical supervision. Material is corrosive. It may not be advisable to induce vomiting. Possible mucosal damage may contraindicate the use of gastric lavage.
<b>Medical condition aggravated by exposure:</b>	None known.

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Use dry chemical, CO2, water spray or `alcohol` foam.
<b>Specific hazards:</b>	Do not allow material to contaminate ground water system.
<b>Special protective equipment for fire-fighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
<b>Specific methods:</b>	Water mist may be used to cool closed containers

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapour/dust. Use personal protective equipment. Wash thoroughly after handling.
<b>Environmental precautions:</b>	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up:</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

## 7. HANDLING AND STORAGE

### Handling

<b>Technical measures/precautions:</b>	Provide sufficient air exchange and/or exhaust in work rooms.
<b>Safe handling advice:</b>	In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Wear personal protective equipment. Wash thoroughly after handling.

## Storage

**Technical measures/storage conditions:** Store at room temperature in the original container.

**Incompatible products:** Strong oxidizing agents

**Safe storage temperature:** 50 - 100 °F

**Shelf life:** 2 years

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
1,3-Benzenedimethanamine	None	None	0.1 mg/m <sup>3</sup> (Ceiling)

**Engineering measures:** Ensure adequate ventilation

### Personal Protective Equipment:

**General:** Eye Wash and Safety Shower

**Respiratory protection:** If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH-certified respirator with organic vapor/P100 filter should be worn.

**Eye protection:** Safety glasses with side-shields

**Hand protection:** Impervious butyl rubber gloves

**Skin and body protection:** Long sleeved clothing

**Hygiene measures:** Avoid contact with skin, eyes and clothing.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	Clear, Amber
<b>Odor</b>	Amine
<b>Odor Threshold</b>	No information available
<b>pH concentrate:</b>	No information available
<b>pH Dilution</b>	No information available

<b>Melting/freezing point</b>	No information available
<b>Boiling Point/Range</b>	No information available
<b>Flash Point</b>	> 100 °C / > 212 °F
<b>Method</b>	No information available
<b>Evaporation rate</b>	No information available
<b>Flammability Limits in Air</b>	
upper flammability limit	No information available
lower flammability limit	No information available
<b>VOC Content Product (lb/gal)</b>	0
<b>VOC Content Product (g/L)</b>	0
<b>VOC less water and exempt (lb/gal)</b>	0
<b>VOC less water and exempt (g/L)</b>	0
<b>HAP Content Product (g/L):</b>	0
<b>Solids (% w/w):</b>	100
<b>Solids (% v/v):</b>	100
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Specific Gravity (g/cc, 15 C)</b>	No information available
<b>Density @ 25 ° C. (g/cc):</b>	0.98
<b>Bulk Density @ 77 ° F. (lb/gal):</b>	8.16
<b>Water Solubility</b>	Insoluble
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient: n-octanol/water</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition Temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available
<b>Molecular Weight</b>	No information available

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under recommended storage conditions.

**Conditions to avoid:** None known.

**Materials to avoid:** Strong oxidizing agents.

**Hazardous decomposition products:** Carbon oxides. Nitrogen oxides (nox).

**Hazardous Polymerization:** Not applicable.

## 11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

### Information on likely routes of exposure

**Inhalation** May cause irritation of respiratory tract.

**Eye Contact** Corrosive to the eyes and may cause severe damage including blindness.

**Skin Contact** Contact causes severe skin irritation and possible burns. May cause sensitization by skin contact. Harmful in contact with skin.

**Ingestion** Toxic if swallowed.

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
Trimethylolpropane polyoxypropylene triamine	-	-	-
1,3-Benzenedimethanamine	= 660 mg/kg ( Rat ) Oral LD50 Rat 660 mg/kg (Source: JAPAN_GHS)	= 2 g/kg ( Rabbit ) Dermal LD50 Rabbit 2 g/kg (Source: NLM_CIP)	= 700 ppm ( Rat ) 1 h Inhalation LC50 Rat 700 ppm 1 h (Source: NLM_CIP)
Poly[oxy(methyl-1,2-ethanediyl)], a-(2-aminomethylethyl)-w-(2-aminomethyle thoxy)-	= 242 mg/kg ( Rat ) Oral LD50 Rat 242 mg/kg (Source: NLM_CIP)	-	-
Para-nonylphenol	= 1300 mg/kg ( Rat ) Oral LD50 Rat 1300 mg/kg (Source: NLM_CIP)	= 2031 mg/kg ( Rabbit ) Dermal LD50 Rabbit 2031 mg/kg (Source: IUCLID)	-
Aromatic alcohol	= 1230 mg/kg ( Rat ) Oral LD50 Rat 1230 mg/kg (Source: NLM_CIP)	= 2 g/kg ( Rabbit ) Dermal LD50 Rabbit 2 g/kg (Source: NLM_CIP)	= 8.8 mg/L ( Rat ) 4 h Inhalation LC50 Rat 8.8 mg/L 4 h (Source: NLM_CIP)
Isophorone diamine	= 1030 mg/kg ( Rat ) Oral LD50 Rat 1030 mg/kg (Source: IUCLID)	-	-
Hydroxy Benzoic Acid	= 891 mg/kg ( Rat ) Oral LD50 Rat 891 mg/kg	-	> 900 mg/m <sup>3</sup> ( Rat ) 1 h Inhalation LC50 Rat

	(Source: NLM_CIP)		>900 mg/m <sup>3</sup> 1 h (Source: NLM_CIP)
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#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

##### **Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen

Components	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Trimethylolpropane polyoxypropylene triamine	Not listed	Not listed	Not listed
1,3-Benzenedimethanamine	Not listed	Not listed	Not listed
Poly[oxy(methyl-1,2-ethanediyl)], a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-	Not listed	Not listed	Not listed
Para-nonylphenol	Not listed	Not listed	Not listed
Aromatic alcohol	Not listed	Not listed	Not listed
Isophorone diamine	Not listed	Not listed	Not listed
Hydroxy Benzoic Acid	Not listed	Not listed	Not listed

##### **Sensitization**

Product contains a component that is classified as a skin sensitizer. No studies have been conducted on the product itself.

##### **Mutagenic effects:**

No information available.

##### **Reproductive Toxicity**

Product contains a component that is classified as a reproductive hazard. No testing has been conducted on the product itself.

##### **Developmental Toxicity**

No information available.

##### **Teratogenic**

No information available.

##### **Specific target organ systemic toxicity (single exposure)**

No information available.

##### **Specific target organ systemic toxicity (repeated exposure)**

No information available.

##### **Aspiration hazard**

No information available.

##### **Additional information on toxicological effects**

No information available

## **12. ECOLOGICAL INFORMATION**

Components	Ecotoxicity - Fish Species Data:	Ecotoxicity - Freshwater Algae Data:	Ecotoxicity - Water Flea Data:
Trimethylolpropane polyoxypropylene	No data	No data	No data



triamine			
1,3-Benzenedimethanamine	No data	No data	No data
Poly[oxy(methyl-1,2-ethanediyl)], a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-	LC50 (Leuciscus idus - 96h) = 220 - 460 mg/l	No data	No data
Para-nonylphenol	= 0.135 mg/L LC50 = 0.1351 mg/L LC50	=0.14mg/L 0.36 - 0.48 mg/L EC50 0.16 - 0.72 mg/L EC50 = 1.3 mg/L EC50	EC50 (Daphnia magna - 48h) = 0.14 mg/L
Aromatic alcohol	= 460 mg/L LC50 = 10 mg/L LC50	=23mg/L	EC50 (water flea - 48h) = 23 mg/L
Isophorone diamine	No data	14.6 - 21.5mg/L = 37 mg/L EC50	EC50 (Daphnia magna - 48h) = 14.6 - 21.5 mg/L EC50 (Daphnia magna - 24h) = 42 mg/L
Hydroxy Benzoic Acid	No data	=870mg/L	No data

4% of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and Degradability** No information available.

**Bioaccumulation** No information available.

Components	Octanol/water partition coefficient
Trimethylolpropane polyoxypropylene triamine	-1.13
1,3-Benzenedimethanamine	-
Poly[oxy(methyl-1,2-ethanediyl)], a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-	-
Para-nonylphenol	-
Aromatic alcohol	1.1
Isophorone diamine	0.79
Hydroxy Benzoic Acid	0 - 2.26

**Mobility:** No data available

**Ozone:** No data available

### 13. DISPOSAL CONSIDERATIONS

**Waste from residues/unused products:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

**Contaminated packaging:** Do not re-use empty containers

**Methods for cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal

## 14. TRANSPORT INFORMATION

### U. S. DEPARTMENT OF TRANSPORTATION:

UN/NA ID Number:	UN2735
Proper shipping name:	Amines, liquid, corrosive, n.o.s ( 1,3-benzenedimethanamine and isophorone diamine)
Hazard class:	8
PG:	II
DOT ERG:	ERG 153

### TDG (CANADA):

UN nr:	UN2735
Proper shipping name:	Amines, liquid, corrosive, n.o.s ( 1,3-benzenedimethanamine and isophorone diamine)
TDG Hazard Classification:	8
Packing group:	II

### IMDG/IMO:

UN nr:	UN2735
Proper shipping name:	Amines, liquid, corrosive, n.o.s ( 1,3-benzenedimethanamine and isophorone diamine)
Class:	8
Packing group:	II
EMS:	F-A, S-B
Limited quantity:	5 L

### IATA/ICAO:

UN nr:	UN2735
Proper shipping name:	Amines, liquid, corrosive, n.o.s ( 1,3-benzenedimethanamine and isophorone diamine)
Hazard Class:	8
Packing group:	II
Maximum quantity for cargo only:	60 L
Maximum quantity for passenger:	5 L
Limited quantity:	1 L

## 15. REGULATORY INFORMATION

### Federal Regulations

OSHA Hazard Communication Standard:	This product is considered to be hazardous under the OSHA Hazard Communication Standard.
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### CERCLA/SARA Information:

SARA (311, 312) hazard class:	This product possesses the following SARA Hazard Categories:
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Immediate Health (Acute):	Yes
Delayed Health (Chronic):	Yes
Flammability:	No

Pressure: No  
 Reactivity: No

Components	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Trimethylolpropane polyoxypropylene triamine	Not listed	Not listed	Not listed
1,3-Benzenedimethanamine	Not listed	Not listed	Not listed
Poly[oxy(methyl-1,2-ethanediyl)], a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-	Not listed	Not listed	Not listed
Para-nonylphenol	Not listed	Not listed	1.0 %
Aromatic alcohol	Not listed	Not listed	Not listed
Isophorone diamine	Not listed	Not listed	Not listed
Hydroxy Benzoic Acid	Not listed	Not listed	Not listed

**Clean Air and Clean Water Acts:**

Components	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
Trimethylolpropane polyoxypropylene triamine	Not listed	Not listed	Not listed	Not listed
1,3-Benzenedimethanamine	Not listed	Not listed	Not listed	Not listed
Poly[oxy(methyl-1,2-ethanediyl)], a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-	Not listed	Not listed	Not listed	Not listed
Para-nonylphenol	Not listed	Not listed	Not listed	Not listed
Aromatic alcohol	Not listed	Not listed	Not listed	Not listed
Isophorone diamine	Not listed	Not listed	Not listed	Not listed
Hydroxy Benzoic Acid	Not listed	Not listed	Not listed	Not listed

**U.S. STATE REGULATIONS (RTK):**

Components	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Trimethylolpropane polyoxypropylene triamine	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
1,3-Benzenedimethanamine	Not Listed	Present	Not Listed	1320	Present
Poly[oxy(methyl-1,2-ethanediyl)], a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Para-nonylphenol	Not Listed	Not Listed	Not Listed	Not Listed	Present
Aromatic alcohol	Not Listed	Present	Not Listed	Not Listed	Present
Isophorone diamine	Not Listed	Not Listed	Not Listed	1067	Not Listed
Hydroxy Benzoic Acid	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

**California Proposition 65 Status:** No components are listed

**RCRA Status:** Not regulated

**CANADIAN REGULATIONS:**

Components	CEPA Schedule I	Challenge Substances
Trimethylolpropane polyoxypropylene triamine	Not listed	Not listed
1,3-Benzenedimethanamine	Not listed	Not listed
Poly[oxy(methyl-1,2-ethanedyl)], a-(2-aminomethylethyl)-w-(2-aminomethylethoxy)-	Not listed	Not listed
Para-nonylphenol	Listed	Not listed
Aromatic alcohol	Listed	Not listed
Isophorone diamine	Not listed	Not listed
Hydroxy Benzoic Acid	Not listed	Not listed

**INVENTORY STATUS:**

**United States TSCA Inventory:** This product complies with TSCA

**Canada DSL/NDSL Inventory List** This product complies with DSL

## 16. OTHER INFORMATION

**Sources of key data used to compile** Material safety data sheets of the ingredients.  
**the data sheet:**

**Prepared by:** Safety, Health and Environmental Department

**Revision Date:** 04/20/2016

**Reason for revision:** New Format.

**Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.**

**Disclaimer**

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

**End of Safety Data Sheet**