

SAFETY DATA SHEET

Print date: 05/15/2017 **Revision Date:** 05/15/2017 **Revision Number: 1.02**

1. IDENTIFICATION

Product identifier

Product Name: SynDeck® Flex IMO Part B Hardener SB1285

Product code: SB1285

Other means of identification

Synonyms No information available

Application

Recommended Use **Deck Coating**

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 4
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
Specific target organ toxicity (repeated exposure)	Category 2
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Label Elements

Emergency Overview

DANGER

Hazard Statements

Harmful 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

May cause damage to organs through prolonged or repeated exposure

Very toxic to aquatic life with long lasting effects



Appearance Colorless Physical State Liquid Odor Characteristic

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

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

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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

Call a POISON CENTER or doctor 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

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell 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 0.25% of the mixtu

0.25% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Aminoethylpiperazine	140-31-8	50 - 60%
Nonylphenol	25154-52-3	20 - 30%
Polyoxypropylenediamine	9046-10-0	15 - 20%
4,4'-Methylene-biscyclohexanamine	1761-71-3	10 - 15%
Benzyl alcohol	100-51-6	1 - 5%
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	90-72-2	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.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do

not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person

Inhalation: 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.

Note to physician: 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.

Medical condition

aggravated by exposure:

None known.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or `alcohol` foam. Do not use water with full jet.

Specific hazards: Do not allow material to contaminate ground water system.

Special protective equipment for

fire-fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand,

MSHA/NIOSH (approved or equivalent) and full protective gear

Specific methods: Water mist may be used to cool closed containers

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation. Do not breathe vapour/dust. Use personal protective

equipment. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

Environmental precautions: Do not flush into surface water or sanitary sewer system. Prevent further leakage or

spillage if safe to do so.

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.

7. HANDLING AND STORAGE

Handling

Technical

Provide sufficient air exchange and/or exhaust in work rooms.

measures/precautions:
Safe handling advice:

In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe

vapors or spray mist. Wear personal protective equipment. Avoid contact with skin and

eyes. Wash thoroughly after handling.

Storage

Technical measures/storage

conditions:

Store at room temperature in the original container.

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Incompatible products: Strong oxidizing agents

Safe storage temperature: 5 - 35 °C

Shelf life: 18 months

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	None	None	None

Engineering measures: Ensure adequate ventilation

Personal Protective Equipment:

General: Provide easy access to eyewash/safety shower facilities.

Respiratory protection: If engineering controls do not maintain airborne concentrations to a level which is

adequate to protect worker health, respiratory protection may be required. Contact

your site safety representative for proper respirator selection.

Eye protection: Wear safety glasses with side shields (or goggles)

Hand protection: Wear chemical-resistant gloves as appropriate for the risk of exposure. Contact your

safety department for specific recommendations

Skin and body protection: Wear protective clothing and appropriate footwear necessary for the risk of exposure.

Contact your health and safety department for specific recommendations

Hygiene measures: Handle in accordance with sound chemical hygiene practices. Wear the appropriate

PPE. Avoid contact with skin, eyes and clothing. Remove and wash contaminated

clothing before re-use. Do not eat, drink, or smoke while using chemicals.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Appearance Colorless

Odor Characteristic

Odor Threshold No information available

pH concentrate: No information available

pH Dilution No information available

Melting/freezing point < 20 °C / 68 °F

Boiling Point/Range > 100 °C / 95 °F

Flash Point $> 160 \, ^{\circ}\text{C} \, / > 320 \, ^{\circ}\text{F}$

Method Cleveland Open Cup (COC)

Evaporation rateNo information available

Flammability Limits in Air

upper flammability limitNo information availablelower flammability limitNo information available

VOC Content Product (lb/gal) No information available

VOC Content Product (g/L) 0

VOC less water and exempt (g/L) 0

HAP Content Product (g/L): 0

Solids (% w/w): 100

Solids (% v/v): 100

Vapor pressure No information available

Vapor density No information available

Specific Gravity (g/cc, 15 C)

No information available

Density @ 25 ° C. (g/cc): 1.020

Bulk Density @ 77° F. (lb/gal): 8.51

Water Solubility Insoluble

Solubility in other solvents No information available

Partition coefficient: n-octanol/water No information available

Autoignition temperatureNo information available

Decomposition TemperatureNo information available

Kinematic viscosity

No information available

Dynamic viscosity

No information available

Molecular Weight 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: None under normal use.

Hazardous Polymerization: No information available.

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 Harmful if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Aminoethylpiperazine	= 2140 µL/kg (Rat)	= 2140 μ L/kg (Rat) = 880 μ L/kg (Rabbit)	
	Oral LD50 Rat 2140 µL/kg	Dermal LD50 Rabbit 880	
	(Source: NLM_CIP)	μL/kg (Source: NLM_CIP)	
Nonylphenol	= 580 mg/kg (Rat)	= 2031 mg/kg (Rabbit)	-
	Oral LD50 Rat 580 mg/kg	Dermal LD50 Rabbit 2031	
	(Source: JAPAN_GHS)	mg/kg (Source:	
		JAPAN_GHS)	
Polyoxypropylenediamine	= 242 mg/kg (Rat)	-	-
	Oral LD50 Rat 242 mg/kg		
	(Source: NLM_CIP)		
4,4'-Methylene-biscyclohexanamine	= 1000 mg/kg (Rat)	-	Inhalation LC50 Mouse
	Oral LD50 Rat 1000		0.4 mg/L 4 h (Source:
	mg/kg (Source: IUCLID)		IUCLID)
Benzyl alcohol	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	= 8.8 mg/L (Rat) 4 h
	Oral LD50 Rat 1230	Dermal LD50 Rabbit 2	Inhalation LC50 Rat 8.8
	mg/kg (Source: NLM_CIP)	g/kg (Source: NLM_CIP)	mg/L 4 h (Source:

			NLM_CIP)
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	= 1200 mg/kg (Rat)	= 1280 mg/kg (Rat)	-
	Oral LD50 Rat 1200	Dermal LD50 Rat 1280	
	mg/kg (Source: NLM_CIP)	mg/kg (Source: NLM_CIP)	

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

Chemical Name	IARC Carcinogens NTP		OSHA -
			Select Carcinogens
Aminoethylpiperazine	Not listed	Not listed	Not listed
Nonylphenol	Not listed	Not listed	Not listed
Polyoxypropylenediamine	Not listed	Not listed	Not listed
4,4'-Methylene-biscyclohexanamine	Not listed	Not listed	Not listed
Benzyl alcohol	Not listed	Not listed	Not listed
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	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.

No information available. **Developmental Toxicity**

Teratogenic No information available.

Specific target organ systemic

toxicity (single exposure)

Specific target organ systemic toxicity (repeated exposure)

No information available.

Causes damage to organs through prolonged or repeated exposure if swallowed.

No information available. Aspiration hazard

Additional information on toxicological effects

No information available

Do not use with nitrites as cancer causing nitrosamines can be formed.

12. ECOLOGICAL INFORMATION

Chemical Name	Ecotoxicity - Fish Species	Ecotoxicity - Freshwater	Ecotoxicity - Water Flea	
	Data:	Algae Data:	Data:	
Aminoethylpiperazine	1950 - 2460 mg/L LC50 >	=32mg/L	EC50 (Daphnia magna -	
	1000 mg/L LC50 >= 100	= 495 mg/L EC50	48h) = 32 mg/L	

	mg/L LC50		
Nonylphenol	= 0.135 mg/L LC50	=0.14mg/L 0.17 -	EC50 (Daphnia magna -
		0.21mg/L 0.0874 -	48h) = 0.0874 - 0.124
		0.124mg/L	mg/L
		= 0.41 mg/L EC50 = 1.3	EC50 (Daphnia magna -
		mg/L EC50	48h) = 0.17 - 0.21 mg/L
			EC50 (Daphnia magna -
			48h) = 0.14 mg/L
Polyoxypropylenediamine	LC50 (Leuciscus idus -	No data	No data
	96h) = 220 - 460 mg/l		
4,4'-Methylene-biscyclohexanamine	No data	No data	No data
Benzyl alcohol	= 460 mg/L LC50 = 10	=23mg/L	EC50 (water flea - 48h) =
	mg/L LC50		23 mg/L
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	No data	No data	No data

2.5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Chemical Name	Octanol/water partition coefficient
Aminoethylpiperazine	-1.48
Nonylphenol	3.28
Polyoxypropylenediamine	-
4,4'-Methylene-biscyclohexanamine	2.03
Benzyl alcohol	1.1
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	

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.

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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.(contains

n-aminoethylpiperazine and nonylphenol)

Hazard class: 8
PG: |

DOT ERG: ERG 153

TDG (CANADA):

UN nr: UN2735

Proper shipping name: Amines, Liquid, Corrosive, n.o.s.(contains

n-aminoethylpiperazine and nonylphenol)

TDG Hazard Classification: 8
Packing group: |||

IMDG/IMO:

UN nr: UN2735

Proper shipping name: Amines, Liquid, Corrosive, n.o.s.(contains

n-aminoethylpiperazine and nonylphenol)

Class: 8
Packing group: II
EMS: F-A, S-B
Limited quantity: 5 L

Marine pollutant: Marine Pollutant

IATA/ICAO:

UN nr: UN2735

Proper shipping name: Amines, Liquid, Corrosive, n.o.s.(contains

n-aminoethylpiperazine and nonylphenol)

Hazard Class: 8
Packing group: II
Maximum quantity for cargo only: 60 L
Maximum quantity for passenger: 5 L
Limited quantity: 1 L

Marine pollutant: Marine Pollutant

15. REGULATORY INFORMATION

Federal Regulations

OSHA Hazard Communication

Standard:

This product is considered to be hazardous under the OSHA Hazard Communication

Standard.

CERCLA/SARA Information:

SARA (311, 312) hazard class: This product possesses the following SARA Hazard Categories:

Immediate Health (Acute):YesDelayed Health (Chronic):YesFlammability:NoPressure:NoReactivity:No

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Chemical Name	Hazardous Substances	Extremely Hazardous	SARA 313 Emission
	and RQs	Substances and TPQs	Reporting
Aminoethylpiperazine	Not listed	Not listed	Not listed
Nonylphenol	Not listed	Not listed	1.0 %
Polyoxypropylenediamine	Not listed	Not listed	Not listed
4,4'-Methylene-biscyclohexanamine	Not listed	Not listed	Not listed
Benzyl alcohol	Not listed	Not listed	Not listed
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	Not listed	Not listed	Not listed

Clean Air and Clean Water Acts:

Chemical Name	Hazardous Air	CWA - Hazardous	CWA - Toxic	CWA - Priority
	Pollutants	Substances	Pollutants	Pollutants
Aminoethylpiperazine	Not listed	Not listed	Not listed	Not listed
Nonylphenol	Not listed	Not listed	Not listed	Not listed
Polyoxypropylenediamine	Not listed	Not listed	Not listed	Not listed
4,4'-Methylene-biscyclohexanami	Not listed	Not listed	Not listed	Not listed
ne				
Benzyl alcohol	Not listed	Not listed	Not listed	Not listed
Phenol,	Not listed	Not listed	Not listed	Not listed
2,4,6-tris[(dimethylamino)methyl]-				

U.S. STATE REGULATIONS (RTK):

Chemical Name	California	PARTK	MI Critical	NJRTK	MARTK
	Proposition 65		Materials		
Aminoethylpiperazine	Not Listed	Present	Not Listed	0075	Present
Nonylphenol	Not Listed	Present	Not Listed	Not Listed	Present
Polyoxypropylenediamin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
е					
4,4'-Methylene-biscyclo	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
hexanamine					
Benzyl alcohol	Not Listed	Present	Not Listed	Not Listed	Present
Phenol,	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
2,4,6-tris[(dimethylamin					
o)methyl]-					

California Proposition 65 Status: No components are listed

RCRA Status: To be disposed of as characteristic hazardous waste: Corrosive D002

CANADIAN REGULATIONS:

Chemical Name	CEPA Schedule I	Challenge Substances
Aminoethylpiperazine	Not listed	Not listed
Nonylphenol	Listed	Not listed
Polyoxypropylenediamine	Not listed	Not listed
4,4'-Methylene-biscyclohexanamine	Not listed	Not listed
Benzyl alcohol	Listed	Not listed
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	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: 05/15/2017

Reason for revision: This data sheet contains changes from the previous version in section(s) 14 -Fixed

technical name and PG.

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

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