SAFETY DATA SHEET

Print date: 05/16/2017 **Revision Date:** 05/16/2017 **Revision Number:** 1.04

1. IDENTIFICATION

Product identifier

Product Name: SynDeck® IMO Epoxy Part B Hardener SB5000

Product code: SB5000

Other means of identification

Synonyms No information available

Application

Recommended Use Flooring Topcoat 2 part

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
Chronic aquatic toxicity	Category 2

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
Toxic to aquatic life with long lasting effects

Appearance Translucent Colorless **Physical State** Liquid **Odor** Amine

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Avoid release to the environment

Precautionary Statements - Response
Immediately call a POISON CENTER or doctor
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
Harmful to aquatic life.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Benzyl alcohol	100-51-6	30 - 40%
Trimethylolpropane polyoxypropylene triamine	39423-51-3	30 - 40%
Isophorone diamine	2855-13-2	20 - 30%
1,3-Benzenedimethanamine	1477-55-0	15 - 20%

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. If symptoms persist, call 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 not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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: Dermatitis and asthma.

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. Avoid contact with skin, eyes and clothing. Do not breathe vapour/dust. Use personal protective equipment. 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 measures/precautions: Use only in area provided with appropriate exhaust ventilation.

Safe handling advice: 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: Keep containers tightly closed in a cool, well-ventilated place. Purge open drums with nitrogen before resealing.

Incompatible products: strong acids and oxidizing agents, Copper or copper-bearing alloys

Safe storage temperature: 50 - 100 °F

Shelf life: 2 years

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide

1,3-Benzenedimethanamine	None	None	0.1 mg/m³ (Ceiling)

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: Goggles, Face-shield

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

Skin and body protection: Long sleeved clothing, Chemical resistant apron, Boots

Hygiene measures: Wash hands before breaks and immediately after handling the product Discard contaminated leather articles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Translucent Colorless
Odor	Amine
Odor Threshold	No information available
pH concentrate:	11
pH Dilution	No information available
Melting/freezing point	No information available
Boiling Point/Range	No information available
Flash Point	> 100 °C / > 212 °F
Method	PMCC (Pensky-Martens Closed-Cup)
Evaporation rate	No information available

Flammability Limits in Air	
upper flammability limit	No information available
lower flammability limit	No information available
VOC Content Product (lb/gal)	0
VOC Content Product (g/L)	0
VOC less water and exempt (lb/gal)	0
VOC less water and exempt (g/L)	0
HAP Content Product (g/L):	0
HAP Content Product (lb/gal)	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)	1.018
Density @ 25 ° C. (g/cc):	1.018
Bulk Density @ 77° F. (lb/gal):	8.5
Water Solubility	Moderate
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition Temperature	No information available
Kinematic viscosity	No information available
Dynamic viscosity	200 cP
Molecular Weight	No information available

10. STABILITY AND REACTIVITY

Stability: Can react strongly with epoxy resins at elevated temperatures.

Conditions to avoid: Exposure to water vapour. Exposure to air.

Materials to avoid: Strong acids and oxidising agents. Copper. Copper alloys. Epoxy resins under uncontrolled conditions.

Hazardous decomposition products: Nitrogen oxides (nox). Carbon oxides. Thermal decomposition can lead to release of irritating gases and vapours.

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
Benzyl 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)
Trimethylolpropane polyoxypropylene triamine	-	-	-
Isophorone diamine	= 1030 mg/kg (Rat) Oral LD50 Rat 1030 mg/kg (Source: OECD_SIDS)	-	-
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)

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
Benzyl alcohol	Not listed	Not listed	Not listed

Trimethylolpropane polyoxypropylene triamine	Not listed	Not listed	Not listed
Isophorone diamine	Not listed	Not listed	Not listed
1,3-Benzenedimethanamine	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 No information available.

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

Chemical Name	Ecotoxicity - Fish Species Data:	Ecotoxicity - Freshwater Algae Data:	Ecotoxicity - Water Flea Data:
Benzyl alcohol	= 460 mg/L LC50 = 10 mg/L LC50	=23mg/L	EC50 (water flea - 48h) = 23 mg/L
Trimethylolpropane polyoxypropylene triamine	No data	No data	No data
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
1,3-Benzenedimethanamine	No data	No data	No data

0% 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
Benzyl alcohol	1.1

Trimethylolpropane polyoxypropylene triamine	-1.13
Isophorone diamine	0.79
1,3-Benzenedimethanamine	-

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. (contains 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. (contains 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. (contains 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. (contains 1,3-Benzenedimethanamine and Isophorone diamine)

Hazard Class:	8
Packing group:	II
Maximum quantity for cargo only:	30 L
Maximum quantity for passenger:	1 L
Limited quantity:	0.5 L

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):	Yes
Delayed Health (Chronic):	Yes
Flammability:	No
Pressure:	No
Reactivity:	No

Chemical Name	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Benzyl alcohol	Not listed	Not listed	Not listed
Trimethylolpropane polyoxypropylene triamine	Not listed	Not listed	Not listed
Isophorone diamine	Not listed	Not listed	Not listed
1,3-Benzenedimethanamine	Not listed	Not listed	Not listed

Clean Air and Clean Water Acts:

Chemical Name	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
Benzyl alcohol	Not listed	Not listed	Not listed	Not listed
Trimethylolpropane polyoxypropylene triamine	Not listed	Not listed	Not listed	Not listed
Isophorone diamine	Not listed	Not listed	Not listed	Not listed
1,3-Benzenedimethanamine	Not listed	Not listed	Not listed	Not listed

U.S. STATE REGULATIONS (RTK):

Chemical Name	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Benzyl alcohol	Not Listed	Present	Not Listed	Not Listed	Present
Trimethylolpropane polyoxypropylene triamine	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Isophorone diamine	Not Listed	Not Listed	Not Listed	1067	Not Listed

1,3-Benzenedimethanamine	Not Listed	Present	Not Listed	1320	Present

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
Benzyl alcohol	Listed	Not listed
Trimethylolpropane polyoxypropylene triamine	Not listed	Not listed
Isophorone diamine	Not listed	Not listed
1,3-Benzenedimethanamine	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 the data sheet: Material safety data sheets of the ingredients.

Prepared by: Safety, Health and Environmental Department

Revision Date: 05/16/2017
Reason for revision: This data sheet contains changes from the previous version in section(s) 2.

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