



SAFETY DATA SHEET

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1. COMPANY AND PRODUCT IDENTIFICATION

Product identifier

Product Name: SynDeck® Epoxy Combo Grout Part B Hardener SB1241

Product code: SB1241

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 - Inhalation (Vapors)	Category 2
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin Sensitization	Category 1
Reproductive toxicity	Category 2
Chronic aquatic toxicity	Category 2

Label Elements

Emergency Overview

DANGER

Hazard Statements

Toxic if inhaled
Causes severe skin burns and eye damage
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
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
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
In case of inadequate ventilation wear respiratory protection
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
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
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse 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: Rinse mouth. Do NOT induce vomiting

Collect spillage

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

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

Components	CAS No	Weight %
TOFA reaction products with TEPA	68953-36-6	70 - 80%
Diethylenetriamine	111-40-0	15 - 20%
Bisphenol A	80-05-7	10 - 15%
Tetraethylenepentamine	112-57-2	1 - 5%

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 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 breathing is difficult, give oxygen If not breathing, give artificial respiration Consult a physician.

Note to physician:

Treat symptomatically.

Medical condition aggravated by exposure:	Dermatitis and asthma. May affect the respiratory system, eyes, liver, kidney and reproduction.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Use dry chemical, CO2, water spray or `alcohol` foam.
Specific hazards:	May generate ammonia gas, May generate toxic nitrogen oxide gases. Use of water may result in the formation of very toxic aqueous solutions.
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:	Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapour/dust. Wash thoroughly after handling.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.
Methods for cleaning up:	Soak up with inert absorbent material and dispose of as hazardous waste. 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:	Provide sufficient air exchange and/or exhaust in work rooms.
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.
Incompatible products:	strong acids and oxidizing agents Copper or copper-bearing alloys. Aluminum & zinc
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
Diethylenetriamine	1 ppm (TWA)	None	1 ppm (TWA) 4 mg/m ³ (TWA)

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: Tightly fitting safety goggles, Face-shield

Hand protection: Solvent-resistant gloves, Neoprene gloves

Skin and body protection: Wear overall, boots and gloves while handling or applying the product

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



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Clear Amber
Odor	Amine
Odor Threshold	No information available
pH concentrate:	No information available
pH Dilution	No information available
Melting/freezing point	No information available
Boiling Point/Range	> 190 °C / 374 °F
Flash Point	126 °C / 259 °F
Method	Tag 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)	No information available
Density @ 25 ° C. (g/cc):	0.98
Bulk Density @ 77 ° F. (lb/gal):	8.2
Water Solubility	Insoluble
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	No information available
Molecular Weight	No information available

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. May react with oxidizers; possible violent reaction with peroxides.
Conditions to avoid:	Heat, flames and sparks.
Materials to avoid:	Strong acids and oxidising agents. Copper. Aluminum. zinc.

Hazardous decomposition products: Toxic fumes. Ammonia gas may be liberated at high temperatures. Carbon oxides. Nitrogen oxides (nox). Aldehydes.

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 Fatal if inhaled.

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.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
TOFA reaction products with TEPA	-	-	-
Diethylenetriamine	= 1080 mg/kg (Rat) Oral LD50 Rat 1080 mg/kg (Source: JAPAN_GHS)	= 672 mg/kg (Rabbit) Dermal LD50 Rabbit 672 mg/kg (Source: JAPAN_GHS)	= 70 mg/L (Rat) 4 h Inhalation LC50 Rat 70 mg/L 4 h (vapor, Source: JAPAN_GHS)
Bisphenol A	= 3300 mg/kg (Rat) Oral LD50 Rat 3300 mg/kg (Source: JAPAN_GHS)	= 3 mL/kg (Rabbit) Dermal LD50 Rabbit 3 mL/kg (Source: NLM_CIP)	> 0.17 mg/L (Rat) 6 h Inhalation LC50 Rat >0.17 mg/L 6 h (Source: JAPAN_GHS)
Tetraethylenepentamine	= 3990 mg/kg (Rat) Oral LD50 Rat 3990 mg/kg (Source: NLM_CIP)	= 660 µL/kg (Rabbit) Dermal LD50 Rabbit 660 µL/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

Components	IARC Carcinogens	NTP	OSHA - Select Carcinogens
TOFA reaction products with TEPA	Not listed	Not listed	Not listed
Diethylenetriamine	Not listed	Not listed	Not listed
Bisphenol A	Not listed	Not listed	Not listed
Tetraethylenepentamine	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:
TOFA reaction products with TEPA	No data	No data	No data
Diethylenetriamine	= 248 mg/L LC50 = 1014 mg/L LC50	=16mg/L = 1164 mg/L EC50 = 345.6 mg/L EC50 = 592 mg/L EC50	EC50 (Daphnia magna - 48h) = 16 mg/L EC50 (Daphnia magna - 24h) = 37 mg/L
Bisphenol A	3.6 - 5.4 mg/L LC50 4.0 - 5.5 mg/L LC50 = 4 mg/L LC50 = 9.9 mg/L LC50	=10.2mg/L =3.9mg/L 9.2 - 11.4mg/L = 2.5 mg/L EC50	EC50 (Daphnia magna - 48h) = 9.2 - 11.4 mg/L EC50 (Daphnia magna - 48h) = 10.2 mg/L EC50 (Daphnia magna - 48h) = 3.9 mg/L
Tetraethylenepentamine	= 420 mg/L LC50	=24.1mg/L = 2.1 mg/L EC50	EC50 (Daphnia magna - 48h) = 24.1 mg/L

72.5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and Degradability No information available.

Bioaccumulation No information available.

Components	Octanol/water partition coefficient
TOFA reaction products with TEPA	-
Diethylenetriamine	-1.3
Bisphenol A	2.2
Tetraethylenepentamine	<1

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 and dispose of as hazardous waste 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. (diethylenetriamine)
Hazard class: 8
PG: III
DOT ERG: ERG 153

TDG (CANADA):

UN nr: UN2735
Proper shipping name: Amines, liquid, corrosive, n.o.s. (diethylenetriamine)
TDG Hazard Classification: 8
Packing group: III

IMDG/IMO:

UN nr: UN2735
Proper shipping name: Amines, liquid, corrosive, n.o.s. (diethylenetriamine)
Class: 8
Packing group: III
EMS: F-A, S-B
Limited quantity: 5 L

IATA/ICAO:

UN nr: UN2735
Proper shipping name: Amines, liquid, corrosive, n.o.s. (diethylenetriamine)
Hazard Class: 8
Packing group: III
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.

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

Components	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
TOFA reaction products with TEPA	Not listed	Not listed	Not listed
Diethylenetriamine	Not listed	Not listed	Not listed
Bisphenol A	Not listed	Not listed	1.0 %
Tetraethylenepentamine	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
TOFA reaction products with TEPA	Not listed	Not listed	Not listed	Not listed
Diethylenetriamine	Not listed	Not listed	Not listed	Not listed
Bisphenol A	Not listed	Not listed	Not listed	Not listed
Tetraethylenepentamine	Not listed	Not listed	Not listed	Not listed

U.S. STATE REGULATIONS (RTK):

Components	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
TOFA reaction products with TEPA	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Diethylenetriamine	Not Listed	Present	Not Listed	0700	Present
Bisphenol A	female reproductive toxicity	Environmental hazard	Not Listed	2388	Present
Tetraethylenepentamine	Not Listed	Present	Not Listed	1816	Present

California Proposition 65 Status: No components are listed

RCRA Status: Corrosive D002

CANADIAN REGULATIONS:

Components	CEPA Schedule I	Challenge Substances
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TOFA reaction products with TEPA	Not listed	Not listed
Diethylenetriamine	Not listed	Not listed
Bisphenol A	Listed	Listed
Tetraethylenepentamine	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: 04/21/2016

Reason for revision: Name change.

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