

Safety Data Sheet

Revision Number: 02.4

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Mid-Cure™	IDH number:	203-204/212
Product type:	2-Part epoxy adhesive	Item number:	203-204/212
Restriction of Use:	None identified	Region:	United States
Company address:	Contact information:		
Bob Smith Industries, Inc.	Telephone: (805) 466-1717		
155 Cow Meadow Place,	MEDICAL EMERGENCY Phone: Poison Control Center		
Paso Robles, CA 93446	1-877-671-4608 (toll free) or 1-303-592-1711		
	TRANSPORT EMERGENCY Phone:		
	1-800-223-7699 (toll free)		
	www.bsi-inc.com		

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: CAUSES SKIN IRRITATION
MAY CAUSE AN ALLERGIC SKIN REACTION
CAUSES SERIOUS EYE IRRITATION

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

PICTOGRAM(S)



Precautionary Statements

Prevention:	Avoid breathing vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection and face protection.
Response:	IF ON SKIN: Wash with soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse with water for several minutes. If eye irritation persists: Get medical attention. In case of fire: Use water spray to extinguish.
Storage:	IF INGESTED: Do not induce vomiting without medical advise. Store in a well-ventilated place. Keep container tightly closed. Keep in a cool and dry area.
Disposal:	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

H-3, F-1, R-0

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Bisphenol A Epoxy Resin	25068-38-6	>45
Aminoethylpiperazine Poly-Mercaptan Resin	140-31-8 Proprietary	<25 >23

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation:	Move to fresh air.
Skin contact:	Wash contact area with soap and water. Remove contaminated clothing. Launder contaminated clothing before use.
Eye contact:	Immediately flush thoroughly with water and get medical attention.
Ingestion:	Seek immediate medical attention. Do not induce vomiting. Irritating to mouth, throat and stomach.
Symptoms:	See Section 11.
Notes to physician:	If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. Application of corticosteroid cream has been effective in treating skin irritation.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special firefighting procedures:	In enclosed spaces, wear a self-contained breathing apparatus. Prevent runoff from entering streams, sewers or drinking water supply.
Unusual fire or explosion hazards:	None
Hazardous combustion products:	May generate ammonia and nitrogen oxide gases. Halogenated compounds.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Ventilate area. Do not allow product to enter sewer or waterways.
Clean-up methods:	Absorb or cover with dry earth, sand or other absorbent, non-combustible material. Dispose of via a licensed waste disposal contractor. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE

Handling:	Prevent contact with eyes and avoid contact with skin. Avoid breathing vapor and mist. Wash thoroughly with soap and water after handling. Persons with a history of skin sensitization problems should not use.
Storage:	For safe storage, store between 2°C (36°F) and 40°C (104°F). Keep in a well ventilated, dry area. Keep container tightly closed until ready for use.

For information on product shelf life contact BSI Customer Service at (800) 223-7699

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Bisphenol A Epoxy Resin	200 ppm TWA	None	None	None
Aminoethylpiperazine	150 ppm TWA	None	None	None
Poly-Mercaptan Resin	None	None	None	None

Engineering controls:	Use positive down-draft exhaust ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
Respiratory protection:	Not required for properly ventilated areas.
Eye/face protection:	Safety goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists.
Skin protection:	Use chemical-resistant, impervious gloves as necessary to prevent contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Slight amber
Odor:	Mild Amine
Odor threshold:	N/D
pH:	Alkaline
Vapor pressure:	1.17 mm hg (0.156 kPa)
Boiling point/range:	>200°C (>392°F)
Melting point/ range:	Not determined
Specific gravity:	0.97 / 1.15
Vapor density:	N/A
Flash point:	101°C (214°F) ASTM D-56
Flammable/Explosive limits - lower:	N/A
Flammable/Explosive limits - upper:	N/A
Auto-ignition temperature:	N/A
Evaporation rate:	N/A
Solubility in water:	Some
Partition coefficient (n-octanol/water):	3.8
VOC content:	< 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)
Viscosity:	10,000 to 12,000 cps..
Decomposition temperature:	>200°C (>392°F)

10. STABILITY AND REACTIVITY

Stability:	Material is stable under recommended storage conditions.
Hazardous reactions:	Hazardous polymerization will not occur.
Hazardous decomposition products:	Material does not decompose at ambient temperatures.
Incompatible materials:	Organic and mineral acids, strong oxidizers
Reactivity:	Not available.
Conditions to avoid:	No specific data

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Ingestion, Eyes

Potential Health Effects/Symptoms

Inhalation: May cause respiratory tract irritation. Exposure to vapors above the established exposure limit results in respiratory irritation, which may cause headaches, dizziness, anesthesia and drowsiness. Is not a respiratory sensitizer.

Skin contact: May cause skin irritation. Prolonged skin contact may cause burns. May cause sensitization of skin.

Eye contact: May cause severe irritation to eyes.

Ingestion: Harmful if swallowed.

Aspiration: No data available.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Bisphenol A Epoxy Resin	200 ppm	Irritant
Aminoethylpiperazine	150 ppm	Irritant, skin sensitization
Poly-Mercaptan	None	Irritant, skin sensitization

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Bisphenol A Epoxy Resin	No	No	No
Aminoethylpiperazine	No	No	No
Poly-Mercaptan	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: May cause long-term adverse effects in the aquatic environment. Moderate bioaccumulation potential. Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal. May be disposed by supervised incineration at very high temperatures.

Hazardous waste number: May be subject to RCRA regulations (40 CFR 261).

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Environmentally hazardous substance Liq n.o.s.
Hazard class or division: 9
Identification number: 3082
Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance Liq. n.o.s.
Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Exceptions:

Primary packs containing less than 500ml are unregulated by these modes of transport and may be shipped unrestricted. Marine pollutant mark is not required in sizes <5 L.

Water Transportation (IMO/IMDG)

Proper shipping name:	Environ. Hazardous Substance, Liq, n.o.s.
Hazard class or division:	9
Identification number:	3082
Packing group:	III
Marine pollutant:	Yes

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification:	None above reporting de minimis.
CERCLA/SARA Section 302 EHS:	None above reporting de minimis.
CERCLA/SARA Section 311/312:	Immediate Health, Delayed Health
CERCLA/SARA Section 313:	None above reporting de minimis.
ODS	This product does not contain nor is it manufactured with ozone depleting substances.
California Proposition 65:	This product may contain chemicals know to the state of California to cause cancer or reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status:	Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.
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16. OTHER INFORMATION

REACH & RoHS2.0 Compliant

Schedule B HS #3506990000

Ingredients are not currently designated as hazardous substances under current OSHA guidelines.

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, BSI does not assume responsibility for any results obtained by persons over whose methods BSI has no control. It is the user's responsibility to determine the suitability of BSI's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any BSI's products. In light of the foregoing, BSI specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of BSI's products. BSI further disclaims any liability for consequential or incidental damages of any kind, including lost profits.