

SAFETY DATA SHEET

Anchor Seal, Inc.

EPOXY HARDENER

1. Identification

1.1 Product Name: SY6500HS (Part B)

1.2 Material Uses: Component of an Epoxy System. Casting, tooling and encapsulation.

Issue Date: 1/19/14

Supersedes 3/12/13

Reason for revision: New format

1.3 Manufacturer:

ANCHOR-SEAL, INC.
54 Great Republic Drive
Gloucester, MA 01930
Tel. 978-515-6004
Email: sales@anchorseal.com

1.4 In Case of Emergency: INFOTRAC: 1-800-535-5053

Outside the US and Canada, call 1-352-323-3500

2. Hazards Identification

2.1 OSHA/HCS status: OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazard Category: Harmful by inhalation, dermal absorption and ingestion.

Primary routes of exposure: Skin contact, Eye contact.

Classification: Warning: May cause skin or eye irritation. Harmful if swallowed. May cause liver damage. May cause long-term adverse effects in the aquatic environment.

Skin contact: May cause skin irritation.

Eye contact: Causes eye irritation.

Ingestion: Toxic if swallowed.

Inhalation: May cause methemoglobin formation resulting in a reduced ability of the blood to carry oxygen; a symptom of this may be cyanosis (purplish-blue coloring of the skin, fingernails and lips).

Classification according to EC No. 1272/2008 (CLP/GHS)

Hazard Statements:

Skin Irritation H312 Harmful in contact with the skin.

Eye Irritation H320 Causes eye irritation.

Inhalation H335 May cause respiratory irritation.

Oral Toxicity H301 Toxic if swallowed.

Aquatic H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

Xi Irritant R36, R43

N R53

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2.2 Label Elements

Hazard pictograms:



Signal Word: **Warning**

2.3 Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear eye protection / face protection, protective gloves & clothing.

P284 In case of inadequate ventilation, wear respiratory protection.

P302 + P352 **IF ON SKIN:** Wash immediately with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical advice / attention.

See toxicological information (Section 11)

GENERAL INFORMATION: Read the entire SDS for a more thorough evaluation of the hazards.

3. Composition/information on ingredients

	<u>Name</u>	<u>CAS number</u>
3.1 Substances:	Diethyltoluenediamine	68479-98-1
Mixtures:	Concentration of composition has been withheld as a Trade Secret.	

4. First Aid Measures

4.1 Eye contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of running tepid water for 15 minutes, occasionally lifting the upper and lower eyelids. If effects occur get medical attention as appropriate.

Skin contact: Wash immediately with warm soapy water. Get medical attention if irritation develops. Discard clothing or personal items that cannot be decontaminated.

Inhalation: Move exposed person to fresh air and keep comfortable for breathing.
If not breathing or if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen clothing such as collar, tie, belt or waistband.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Give two glasses of water for dilution. Get medical attention immediately. **Notes to physician:** Immediately give oxygen if victim turns blue (lips, ears, fingernails). Since reversion of methaemoglobin to haemoglobin occurs spontaneously after termination of exposure, moderate degrees of cyanosis need to be treated only by supportive measures.

4.2 Symptoms of exposure

Eye contact: Irritation and redness, pain.

Skin contact: Irritation, redness, itching.

Inhalation: May cause respiratory tract irritation if fumes are highly concentrated.

Ingestion: See notes to physician.

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5. Fire-Fighting Measures

NFPA Flammable classification: Combustible liquid III B

Flash point: >150C

5.1 Extinguishing Media

Suitable: Water fog, carbon dioxide, foam, dry chemical.

Not Suitable: None

5.2 Special hazards: Combustion products may include: carbon oxides, nitrous gases and ammonia.

5.3 Special protective actions for fire fighters: Use protective fire fighting clothing and positive pressure self-contained breathing apparatus (SCBA) to protect against potential harmful and/or irritating fumes. Do not use high volume water jet as this may spread the area of the fire. Use water spray to cool unopened containers.

6. Accidental Release Measures

6.1 Personal precautions: Isolate area; keep unnecessary and unprotected personnel away from spill area. Avoid contact with skin, eyes and clothing. Use appropriate safety equipment. No health effects expected from the cleanup of this material if contact can be avoided.

6.2 Environmental precautions: Avoid disposal of spilled material and runoff and contact with soil, waterways, drains and sewers.

6.3 Methods for cleaning up: Contain and absorb large spills with an inert, non-flammable absorbent carrier (such as earth, sand or clay). Shovel into labeled open-top drums or plastic bags for further decontamination if necessary. Wash the spillage area clean with liquid decontaminant. (See section 13 for disposal considerations). Notify applicable government authorities if release is reportable.

7. Handling and Storage

7.1 Precautions for safe handling: Avoid personal contact with the product. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded. Regularly monitor the efficiency of the ventilation system. Avoid the formation and breathing of aerosols, mists and vapors. (See section 8 Exposure control for details). Keep stocks of de-contaminant readily available.

7.2 Storage: Keep containers tightly closed and store in a cool, dry well ventilated area.

8. Exposure controls/personal protection

8.1 Exposure parameters: None established.

8.2 Engineering controls: Ventilation through local exhaust if appropriate.

Eye/face protection: Safety glasses, goggles, face mask as appropriate.

Skin & hand protection: Protective clothing as necessary to guard against product contact. PVC, neoprene or nitrile rubber gloves.

Respiratory protection: Not needed under normal use conditions under adequate ventilation.

Other protective equipment: Eye wash stations and emergency showers should be available. The type and degree of personal protective equipment will depend on the specific work operation.

8.3 Environmental exposure controls: None established.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties.

Appearance	: Liquid
Color	: Brown or clear
Type of odor	: Pungent
Vapor pressure	: <0.001 mm Hg @ 20C (68F)
Vapor pressure	: 1 mm Hg @ 119C (246F)
Vapor density	: >1 (air=1)
Boiling point	: >300°C
Flash point	: >150C (300F) (Pensky-Martens Closed Cup (ASTM D-93)
pH	: 9.7
Specific gravity	: 1.02 grams / cc
Water solubility	: Slight

10. Stability and Reactivity

10.1 Reactivity: Reacts with strong acids and strong oxidizing agents. _

10.2 Stability: Stable at room temperature.

10.3 Hazardous polymerization: Will not occur by itself. Masses of more than one pound of product plus an epoxy resin will cause irreversible polymerization with considerable heat build up.

10.4 Conditions to avoid: Keep away from heat and sources of ignition. Do not smoke.

10.5 Incompatible materials: Oxidizers, strong acids.

10.6 Hazardous decomposition products: Uncontrolled exothermic reaction with epoxy resin releases carbon monoxide, carbon dioxide, nitrogen compounds and ammonia.

11. Toxicological Information

11.1 Acute oral toxicity: LD50 (rat): 470-540 mg/kg.

Acute dermal toxicity: LD50 (rabbit) >1,000 mg/kg.

Acute inhalation toxicity: LC50 (rat) >2.45 mg/l, 1 hour

Skin irritation: Slightly irritating.

Eye irritation: Slightly irritating.

Product sensitization: Non-sensitizing by skin contact (guinea pig).

Carcinogenicity: Rat, Male/Female, oral, 2 years, daily. Positive

12. Ecological Information

12.1 Toxicity to fish: LC50: 190 mg/l (Golden orfe (Leuciscus idus). 48 h)

12.2 Toxicity to Aquatic plant/algae: No data.

12.2 Persistence and biodegradability: Aerobic, 0%, Exposure time: 28 days.

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13. Disposal Considerations

13.1 Waste treatment methods: Do not dump into any sewers, on the ground, or into any body of water. Significant quantities of waste product residues should be processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local requirements. Incineration is the preferred method of disposal. Under the CERCLA/RCRA regulations this product is not regulated as hazardous waste.

Container disposal: Drain container of all residual material prior to disposal.

14. Transport Information:

14.1 DOT Road/Rail: Not Regulated Label: None

14.2 Proper shipping name: Non-regulated

14.3 Sea transport IMO/IMDG:

14.4 Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (contains Diethyltoluenediamine)

14.5 Hazard Class: 9 UN3082 PG III Marine Pollutant: Yes

14.6 Air Transport IATA/ICAO:

14.7 Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (contains Diethyltoluenediamine)

14.8 Hazard class: 9 UN3082 PG III Marine Pollutant: Yes

15. Regulatory Information

15.1 Safety health and environmental regulations/legislation:

OSHA Hazard Communication Standard: This product is a "Hazardous Chemical" as defined by the

OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SARA Title III Section 311/312 (40CFR370): Health: Immediate (acute) Delayed (Chronic) Yes

SARA Title III Section 313 (40CFR372): No reportable components.

CERCLA Status (40CFR302): No reportable quantity components.

TSCA Inventory status: Listed.

OSHA/NTP/IARC Carcinogen Status: Not listed.

Chemicals known to the state of California to cause Cancer or reproductive toxicity: None

Pennsylvania (Worker and Community Right-to-Know Act): Hazardous Substances List and/or

Environmental Hazardous Substance List and/or Special Hazardous Substance List:

State RTK: MA, NJ, PA Diethyltoluenediamine CAS # 68479-98-1.

16. Other Information

HMIS/NFPA rating: Health: 2* Fire: 1 Reactivity: 0

(Personal protective equipment selection is best assigned by the user after performing a hazard assessment on the product as it is to be used in the specific work process). ***Chronic health hazard.**