

# SAFETY DATA SHEET

Anchor Seal, Inc.

EPOXY HARDENER

## 1. Identification

**1.1 Product Name: SY4662L (Part B)**

**1.2 Recommended Use:** Component of an Epoxy System. Adhesive, coating and sealant.

**Issue Date:** 9/18/13

**Supersedes** 1/13/11

**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](mailto: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:** This material is classified as Hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification:** TOXIC by skin absorption, inhalation and ingestion.

**Causes respiratory tract, eye and skin irritation. May cause allergic respiratory and skin reaction.**

**Skin contact:** Harmful in contact with the skin. Severely irritating to the skin. May cause skin sensitization or an allergic reaction which becomes evident on re-exposure to this material.

**Eye contact:** Severely irritating to the eyes. Risk of serious damage to eyes. Direct contact with the eyes can cause irreversible damage, including blindness.

**Ingestion:** Toxic if swallowed.

**Inhalation:** Harmful if inhaled. Severely irritating to the respiratory system, nose throat and lungs. Possible liver and kidney damage and even death.

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2.1 cont.

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

### Health Hazard statements:

<b>Skin Irritation</b>	H313 May be harmful in contact with the skin. H315 Causes skin irritation and redness. H317 May cause an allergic skin reaction and sensitization.
<b>Eye Irritation</b>	H318 Causes serious eye damage. H319 Causes serious eye irritation and redness.
<b>Inhalation</b>	H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.
<b>Oral Toxicity</b>	H301 Toxic if swallowed. H350 May cause cancer. H371 May cause damage to organs (liver, kidney) with prolonged exposure.
<b>Aquatic</b>	H413 May cause long lasting harmful effects to aquatic life.
<b>Xi Irritant</b>	<b>R36/38, R43</b>
<b>N</b>	<b>R53</b>

## 2.2 Label Elements

### Hazard pictograms:



Signal word: **Warning**



**Warning**



**DANGER**

## 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.**

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## 3. Composition information

<u>Name</u>	<u>CAS number</u>
3.1 <b>Substances:</b> Phenolic Modified Polyamine	32610-77-8
<b>Mixtures:</b> 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. Chemical burns must be treated promptly by a physician.

**Skin contact:** Wash immediately with warm soapy water. Remove contaminated clothing. 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. Corrosive hazard. Never give anything by mouth to an unconscious person. If conscious, give the victim one or two glasses of milk or water to drink. Get medical attention immediately. **Notes to physician:** No specific treatment. Treat symptomatically. Call Poison Control Center if large quantities have been ingested.

### 4.2 Symptoms of exposure:

**Eye contact:** Irritation and redness, watering, pain.

**Skin contact:** Irritation, redness, itching.

**Inhalation:** Coughing, wheezing, dizziness, visual disturbances, difficulty breathing if fumes are concentrated.

**Ingestion:** Toxic if swallowed. May cause nausea, vomiting, dizziness, drowsiness, headache.

## 5. Fire-Fighting Measures

**NFPA Flammable classification:** Combustible liquid IIIB

**Flash point:** >200F. SetaFlash Closed Cup.

### 5.1 Extinguishing Media

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

**Not Suitable:** Do not use water jet. Product will float and can reignite on the surface of the water.

**5.2 Special hazards:** Combustion products may include: carbon oxides and nitrogen oxides..

**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.

**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.

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## 7. Handling and Storage

**7.1 Precautions for safe handling: DANGER.** 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.  
Suitable materials: mild steel, stainless steel. Unsuitable: aluminum and copper.

## 8. Exposure controls/personal protection

**8.1 Exposure parameters:** None established for this product.

**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.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties.

<b>Appearance</b>	: Liquid
<b>Color</b>	: Amber
<b>Type of odor</b>	: Ammonia or amine
<b>Vapor pressure</b>	: N/D
<b>Vapor density</b>	: N/D
<b>Boiling point</b>	: >200°C
<b>Flash point</b>	: >200F
<b>pH</b>	: Alkaline
<b>Auto ignition temperature</b>	: N/D
<b>Specific gravity</b>	: 1.1 grams / cc
<b>Water solubility</b>	: N/D

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## 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:** Copper, copper alloys, aluminum.

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

## 11. Toxicological Information

**11.1 Acute oral toxicity:** LD50 (rat): >200 mg/kg.

**Acute dermal toxicity:** Harmful in contact with the skin.

**Acute inhalation toxicity:** LC50 (rat) >250 mg / cu m.

**Skin irritation:** Moderate skin irritation.

**Eye irritation:** Severe eye irritant, burns and possible corneal damage.

**Product sensitization:** May cause sensitization by skin contact.

## 12. Ecological Information

**12.1 Toxicity to fish:** No data available on the product.

**12.2 Toxicity to microorganisms:** No data available on the product.

**12.2 Persistence and biodegradability:** No data available on this product

## 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. **Not a RCRA Hazardous waste.**

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

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## **14. Transport Information:**

**14.1 DOT Road/Rail:** Hazard Class: 8 (6.1) PG II UN 2922

**14.2 Proper Shipping Name:** Corrosive Liquid, Toxic N.O.S. (Polyamines, Phenol)

**14.3 ERG Number:** 154

**14.4 Sea transport IMDG:** Hazard Class: 8 (6.1) PG II UN 2922

**14.5 Proper Shipping Name:** Corrosive Liquid, Toxic N.O.S. (Polyamines, Phenol)

**14.6 ERG Number:** 154

**14.7 Air Transport IATA/ICAO:** Hazard Class: 8 (6.1) PG II UN 2922

**14.8 Proper Shipping Name:** Corrosive Liquid, Toxic N.O.S. (Polyamines, Phenol)

**14.9 ERG Number:** 154

## **15. Regulatory Information**

### **15.1 Safety health and environmental regulations/legislation:**

**HCS Classification:** Toxic material, irritating material, sensitizing material.

SARA Title III Section 311/312 (40CFR370): Immediate (acute) health hazard, delayed (chronic) health hazard.

SARA Title III Section 302/313 (40CFR372): This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 Toxic Chemical List. Phenol (CAS # 108-95-2) Formaldehyde (50-00-0)

CERCLA Status 304: Phenol (CAS# 108-95-2) RQ 1,000 lbs. Formaldehyde (CAS # 50-00-0) RQ 100 lbs.

TSCA Inventory status: All components are listed.

**California Prop. 65:** WARNING: This material contains a chemical known to the state of California to cause cancer. Formaldehyde (CAS # 50-00-0).

## **16. Other Information**

**HMIS/NFPA rating:** Health: 3 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).