

SAFETY DATA SHEET

Anchor Seal, Inc.

EPOXY HARDENER

1. Identification

1.1 Product Name: SY4660F (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

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: Warning: Harmful if inhaled. Harmful in contact with the skin or if swallowed. Inhalation causes headaches, dizziness, drowsiness and nausea and may lead to unconsciousness. 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: Harmful if swallowed. Can cause central nervous system (CNS) depression.

Inhalation: Harmful if inhaled. Can cause central nervous system (CNS) depression. Severely irritating to the respiratory system. May cause lung sensitization, an allergic reaction, which becomes evident on re-exposure to this material. Exposure can produce sensorimotor effects. No aspiration hazard expected.

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2.1 cont.

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

Health Hazard statements:

Skin Irritation H315 Causes skin irritation and redness.

H317 May cause an allergic skin reaction and sensitization.

Eye Irritation H319 Causes serious eye irritation and redness.

Inhalation H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness

Oral Toxicity H302 Harmful if swallowed.

Aquatic H413 May cause long lasting harmful effects to aquatic life.

Xi Irritant **R36/38, R43**

N **R53**

2.2 Label Elements

Hazard pictograms:



Signal word: **Warning**

Warning

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

	<u>Name</u>	<u>CAS number</u>
3.1 Substances:	2-piperazin-1-ylethylamine	140-31-8
	4,4'-isopropylidenediphenyl	80-05-07
Mixtures:	Concentration of composition has been withheld as a Trade Secret.	

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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 unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. 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: Harmful if swallowed. May cause nausea, vomiting, dizziness, drowsiness, headache or unconsciousness. Can cause Central Nervous System (CNS) depression.

Notes to physician: To the best of our knowledge, experiences about acute systemic health effects in human beings are not available. No specific antidote known. Symptomatic treatment.

5. Fire-Fighting Measures

NFPA Flammable classification: Combustible liquid IIIB

Flash point: >200F

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. 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.

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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.
Suitable materials: mild steel, stainless steel. Unsuitable: aluminum and copper.

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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties.

Appearance	: Viscous liquid
Color	: Yellow/Amber/opaque
Type of odor	: Ammonia or amine
Vapor pressure	: N/D
Vapor density	: N/D
Boiling point	: >200°C
Flash point	: >200F
pH	: Alkaline
Auto ignition temperature	: N/D
Specific gravity	: 1.4 grams / cc
Water solubility	: Partial

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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. Strong oxidizers.

10.5 Incompatible materials: Copper, copper alloys, organic absorbents (sawdust) ketones.

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): >200 to <=2,000 mg/kg.

Acute dermal toxicity: Harmful in contact with the skin.

Acute inhalation toxicity: No data.

Skin irritation: Corrosive

Eye irritation: Severe eye irritant.

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.

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

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14. Transport Information:

14.1 U.S. DOT Ground (49 CFR)

Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.
(Aminoethylpiperazine, Nonylphenol)
Hazard class or division: 8
Identification number: UN 3267
Packing group: III
Marine pollutant: Yes
ERG/EMS: 153
RQ: None

14.2 Water transport IMO/IMDG:

Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.
(Aminoethylpiperazine, Nonylphenol)
Hazard class or division: 8
Identification number: UN 3267
Packing group: III
Marine pollutant: Yes
ERG/EMS: F-A;S-B

14.3 International Air Transport ICAO/IATA:

Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s.
(Aminoethylpiperazine, Nonylphenol)
Hazard class or division: 8
Identification number: UN 3267
Packing group: III
RQ: None

15. Regulatory Information

15.1 Safety health and environmental regulations/legislation:

HCS Classification: Irritating material, sensitizing material.

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

SARA Title III Section 313 (40CFR372): This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372. 4,4'-Isopropylidenediphenol
CERCLA Status (40CFR302): Extremely Hazardous Substances. None.

TSCA Inventory status: None listed.

OSHA/NTP/IARC Carcinogen Status: Not listed.

California Prop. 65: No listed chemicals.

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).