



**FE-180A Fitting Epoxy Base Resin
Safety Data Sheet**

1. Identification

Product Name: FE-180A Bonding Epoxy Base Resin
Synonyms: N/A
CAS Number: Mixture
Product Use: Marine Deck Bonding
Manufacturer/Supplier: Teakdecking Systems, Inc.
Address: 7061 15th Street East
 Sarasota, Florida 34243 USA
Business Phone: +1 941 756-0600
Emergency Phone: +1 941 756-0600

2. Hazards Identification

GHS Classification:

<i>Health</i>	<i>Environmental</i>	<i>Physical</i>
<i>Eye Irritant – Category 2</i>		
<i>Skin Irritant - Category 2</i>		
<i>Skin Sensitizer – Category 1</i>		

GHS Label:



WARNING

GHS Hazard Statements:

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H361 Suspected of damaging fertility or unborn child.
- H411 Toxic to aquatic life with long-lasting effects.

GHS Precautionary Statements:

- P273 Avoid release to the environment.
- P264 Wash hands thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing, and eye protection.
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P333+P313 IF skin irritation or rash occurs: get medical advice.
- P337+P313 IF eye irritation persists get medical advice.

3. Composition / Information on Ingredients

<i>Component</i>	<i>CAS Number</i>	<i>Weight %</i>
<i>Reaction Products of Epichlorohydrin and Bisphenol A</i>	<i>25068-38-6</i>	<i>25-50%</i>
<i>Epoxy phenol novolac resin</i>	<i>28064-14-4</i>	<i>2.5-5%</i>
<i>4-nonylphenol, branched</i>	<i>84852-15-3</i>	<i>0.25-<1%</i>

*The remaining ingredients are omitted under the Confidential Business Information (CBI) rules.
 (See Section 8 for Exposure Limits)*

4. First Aid Measures

Eye: Eye irritation. Flush immediately with large amounts of water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical attention.
Skin: Contact should cause no more than minor irritation. Wash skin thoroughly with soap and water. Seek medical attention if irritation persists. Wash contaminated clothing before reuse. Destroy contaminated leather items.
Inhalation: Move effected persons to fresh air. If effects occur, seek medical attention.
Ingestion: If swallowed, call a physician immediately. Never give fluids or induce vomiting if patient is unconscious or is having convulsions. Do not induce vomiting unless directed by medical personnel.

5. Fire Fighting Measures

Suitable Extinguishing Media: Use dry chemical, foam, or carbon dioxide to extinguish fire. Water may be ineffective but should be used to cool fire-exposed containers, structures, and to protect personnel. Use water to dilute spills and to flush spills away from sources of ignition.
Unusual Fire and Explosion Hazards: N/A
Combustion Products: Irritating or toxic substances may be emitted upon thermal decomposition.
Precautions for Fire Fighters: Exposed firefighters must wear NIOSH-approved positive pressure self-contained breathing apparatus with full-face mask and full protective clothing.

6: Accidental Release Measures

Small Spills: Take up with sand or other absorbent material and place into containers for disposal.

Large Spills: Dike far ahead of liquid spill for disposal. Do not flush to sewer or waterways. Prevent release to the environment if possible.

7. Handling and Storage

Handling: Keep container closed. Do not get in eyes, on skin, or on clothing. Use good personal hygiene practices. Wash hands before eating, drinking, or smoking. Remove contaminated clothing and clean before re-use. Destroy contaminated belts, shoes, and other items that cannot be decontaminated. Avoid breathing vapors.

Storage: Store in tightly closed containers in cool, dry, well-ventilated area. Store at ambient temperature and out of direct sunlight. Keep containers tightly closed and upright when not in use. Protect against physical damage. Keep from freezing. Keep away from oxidizers.

8. Exposure Controls / Personal Protection

Exposure Limits: Not Established

Engineering Controls: N/A

Personal Protective Equipment (PPE)

Eye Protection: Wear chemical safety glasses.

Skin Protection: Avoid skin contact. Wear gloves impervious to conditions of use. Additional protection may be necessary to prevent skin contact including use of aprons, face shields, boots, or full body protection.

Respiratory Protection: None required

Work and Hygienic Practices: Provide readily accessible eye wash stations and safety showers. Wash at the end of each work shift and before eating, smoking, or using the toilet. Promptly remove clothing that becomes contaminated.

9. Physical and Chemical Properties

Appearance:	White paste
Odor:	Epoxy odor
pH:	No Data
Melting Point:	No Data
Boiling Point:	999°C (1830°F)
Flashpoint:	192°C (378°F)
Autoignition Temperature:	No Data
Lower Flammability Limit:	No Data
Upper Flammability Limit:	No Data
Vapor Pressure:	N/A
Vapor Density (Air=1):	No Data
Specific Gravity:	1.5
% Solubility in Water:	None
Pour Point:	N/A
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Viscosity:	Thixotropic

10. Stability and Reactivity

Chemical Stability: Stable

Incompatibility (Materials to Avoid): Oxidizing agents, sodium hypochlorite, and calcium hypochlorite. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

Hazardous Decomposition Products (from burning, heating, or reaction with other materials): Carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur.

Conditions to Avoid (if polymerization may occur): Excessive heating over long periods of time degrades the resin.

11. Toxicological Information

Routes of Exposure:

Eye Contact

Skin Contact

Signs and Symptoms of Exposure (Acute Effects): Contact with the skin may cause allergic reaction in susceptible individuals.

Contact with the eyes or skin causes mild eye and skin irritation, redness, and discomfort which is transient. Inhalation of vapors from heated material may cause irritation in the respiratory tract. Coughing and chest pain may result.

Signs and Symptoms of Exposure (Possible Long Term Effects): Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or prolonged exposure may result in adverse skin effects (such as rash, irritation or corrosion).

Medical Conditions Generally Aggravated By Exposure:

Allergies
Skin disorders

Carcinogens under OSHA, ACGIH, NTP, IARC, Other: This product contains no carcinogens in concentrations of 0.1 percent or greater.

Mutagen: This material contains no known or suspected mutagens in levels above 0.1%.

Reproductive Hazard: This material contains materials known or suspected to cause reproductive hazards in levels above 0.1%.

Target Organ Effects: Skin

Chronic Effects: N/A

12. Ecological Information

Ecotoxicity: No Data

Environmental Fate: No Data

Additional Information: This material contains components that show little or no evidence of biodegradability. This finished product has not been tested to determine individual toxicological/ecological limits. Caution should be taken to prevent release to the environment.

13. Disposal Considerations

Untreated material is not suitable for disposal. Waste, even small quantities, should never be poured down drains, sewers, or watercourses. Comply with all federal, state, and local regulations.

14. Transport Information

UN Number: UN3082

UN proper shipping name: Environmentally Hazardous Substance, Liquid, n.o.s. (Epoxy Resin)

IATA/ICAO Class: 9

Truck/Rail ADRJRD: 9

Packing Group: III

UN Number: UN 3082

15. Regulatory Information

U.S. Federal Regulations

Toxic Substances Control Act (TSCA): All components of this product are included on the TSCA inventory.

OSHA Hazard Communication Standard (29CFR1910.1200) Hazard Class(es): Irritant, Sensitizer

SARA Section 311/312 (40 CFR 370) Hazard Categories: Immediate Health Hazard, Delayed Health Hazard

State Regulations

Proposition 65 Substances (component(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986"): None
New Jersey Trade Secret Registry Number(S): None

International Regulations

DSL: Included on Inventory

WHMIS Hazard Classification: Class D Division 2B

WHMIS Ingredient Disclosure List: None

WHMIS Trade Secret Registry Number(s): This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

European Inventory of Existing Chemicals (EINECS): All of the components of this product are included on EINECS.

16. Other Information

GLOBAL HARMONIZATION LABELING AND CLASSIFICATION:



Classification: Eye Irritant Category 2. Skin Irritation Category 2. Skin Sensitizer Category 1. Hazardous to the aquatic environment, Acute, Category 2. Hazardous to the aquatic environment, Chronic, Category 2. Reproductive Category 2.

Signal Word: Warning

GHS Hazard Statements: H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic to aquatic life with long lasting effects. H361 Suspected of damaging fertility or the unborn child.

GHS Precautionary Statements: P273 Avoid release to the environment. P264 Wash hands thoroughly after handling. P280 Wear protective gloves, protective clothing, and eye protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P333+P313 If skin irritation or rash occurs: get medical advice. P337+P313 If eye irritation persists get medical advice.

National Fire Protection Association (NFPA) Ratings:

Health: 1

Flammability: 1

Reactivity: 0

This information is intended solely for the use of individuals trained in the NFPA system.

Disclaimer: The information contained herein is accurate to the best of our knowledge. My company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.