

### 1. Identification

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

### 2. Hazards Identification

GHS Classification:

Health	Environmental	Physical
Eye Irritant - Category 2 Skin Irritant - Category 2 Skin Sensitizer - Category 1		

GHS Label:



**GHS Hazard Statements:**

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H350 May cause cancer.

**GHS Precautionary Statements:**

P264 Wash hands thoroughly after handling.  
 P280 Wear protective gloves, protective clothing, and eye protection.  
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with 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.  
 P308+P311 IF exposed or concerned: get medical advice.  
 P333+P313 If skin irritation or rash occurs: get medical advice.

### 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
<i>Benzyl alcohol</i>	100-51-6	5-<10%
<i>3,6-diazaoctanethylenediamin</i>	112-24-3	5-<10%
<i>m-phenylenebis(methylamine)</i>	1477-55-0	1-<5%
<i>Quartz (SiO<sub>2</sub>)</i>	14808-60-7	0.1-<1%
<i>Solvent naphtha (petroleum), light arom.</i>	64742-95-6	0.1-<1%
<i>2,3-epoxypropyl o-tolyl ether</i>	2210-79-9	0.1-<1%

*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. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical attention.

**Skin:** Itching or burning of the skin. Flush immediately with plenty of water for at least 15 minutes and remove contaminated clothing and shoes. Do not apply greases or ointments. Seek medical attention if irritation persists. Wash contaminated clothing before reuse.

**Inhalation:** Nasal irritation, headache, and/or dizziness. Remove exposed person from source of exposure to fresh air. If not breathing, clear airway and start cardiopulmonary resuscitation (CPR). Avoid mouth-to-mouth resuscitation. Seek immediate medical attention.

**Ingestion:** Seek immediate medical attention. If person is conscious and can swallow, immediately give two glasses of water. Do not induce vomiting unless directed by medical personnel. Swallowing of this material may result in severe ulceration, inflammation, and possible perforation of the upper alimentary tract with hemorrhage and fluid loss.

### 5. Fire Fighting Measures

**Suitable Extinguishing Media:** Use dry chemical, foam, or carbon dioxide to extinguish fire. Do not use water jet. 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. Thermal decomposition products may include oxides of carbon or oxides of nitrogen.

**Precautions for Fire Fighters:** Do not flush down sewers or other drainage systems. 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 breathe vapors or mists. Use only with adequate ventilation. 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 reuse. Destroy contaminated belts, shoes, and other items that cannot be decontaminated.

**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 away from acids and oxidizers.

### 8. Exposure Controls / Personal Protection

#### Exposure Limits:

Component	CAS Number	EINECS	Weight %	Exposure Limits
Benzyl Alcohol	100-51-6	202-859-9	5-<10%	WEEL Long-term value: 10 ppm
3,6-diazaoctanethylenediamin	112-24-3	203-950-6	5-<10%	WEEL Long-term value: 6 mg/m <sup>3</sup> , 1ppm skin

**Engineering Controls:** Local exhaust ventilation may be necessary to control air contaminants to exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces. Use explosion-proof ventilation equipment.

#### 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:** Not needed under normal exposure conditions in an industrial setting. If exposure limits are exceeded, NIOSH approved respiratory protection should be worn. A NIOSH approved respirator for organic vapors is generally acceptable for concentrations up to 10 times the PEL.

**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

<b>Appearance:</b>	Tan viscous liquid
<b>Odor:</b>	Amine-like
<b>pH:</b>	No Data
<b>Melting Point:</b>	No Data
<b>Boiling Point:</b>	278°C (532°F)
<b>Flashpoint:</b>	170°C (338°F)
<b>Autoignition Temperature:</b>	N/A
<b>Lower Flammability Limit:</b>	N/A
<b>Upper Flammability Limit:</b>	N/A
<b>Vapor Pressure:</b>	No Data
<b>Vapor Density (Air=1):</b>	No Data
<b>Specific Gravity:</b>	1.25
<b>% Solubility in Water:</b>	Not miscible or difficult to mix
<b>Pour Point:</b>	N/A
<b>Molecular Formula:</b>	Mixture
<b>Molecular Weight:</b>	Mixture
<b>Viscosity:</b>	No Data

## 10. Stability and Reactivity

**Chemical Stability:** Stable

**Incompatibility (Materials to Avoid):** Strong acids and oxidizers. Do not use sodium nitrite or other nitrosating agents in formulations containing this product.

**Hazardous Decomposition Products (from burning, heating, or reaction with other materials):** None expected if used for intended purpose and according to specifications.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid (if polymerization may occur):** N/A

## 11. Toxicological Information

**Routes of Exposure:**

Eye Contact

Skin Contact

**Signs and Symptoms of Exposure (Acute Effects):** This material should be considered moderately toxic if absorbed through the skin. Causes skin irritation with pain, severe excess redness, and swelling with chemical burns, blister formation, and possible tissue destruction. This material is very hazardous in case of eye contact. Can cause severe eye irritation and burns with corneal injury which may result in permanent impairment of vision, even blindness. Inhalation of mists 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 eye effects such as conjunctivitis and/or adverse skin effects (such as defatting, rash, or irritation). Repeated and/or prolonged exposure to low concentrations of vapors may cause sore throat.

**Medical Conditions Generally Aggravated By Exposure:**

Allergies

Asthma

Chronic respiratory disease

Eye disease

Skin disorders

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

**Mutagen:** This product contains no known or suspected human mutagens in concentrations above 0.1%.

**Reproductive Hazard:** This product contains no known materials or materials suspected of causing human reproductive hazards.

**Target Organ Effects:** Skin, eye, and respiratory system.

**Chronic Effects:** N/A

## 12. Ecological Information

**Ecotoxicity:** No Data

**Environmental Fate:** No Data

**Additional Information:** Waste from this product may present long term environmental hazards, thus landfill disposal must be considered less acceptable than incineration.

## 13. Disposal Considerations

Preferred method of disposal includes incineration under controlled conditions in accordance with all local and national laws and regulations. Untreated material is not suitable for disposal. Waste, even small quantities, should never be poured down drains, sewers, or watercourses. This material, when properly mixed and cured with its resin component at the proper mix ratio, may be safely land-filled. Comply with all federal, state, and local regulations.

## 14. Transport Information

**DOT Non-Bulk Shipping Name:** Resin Compound - Not Regulated

**DOT Bulk Shipping Name:** Refer To Bill of Lading

**IMO Shipping Data:** Refer To Bill of Lading

**ICAO/IATA Shipping Data:** Resin Compound - Not Regulated

## 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 Hazard: X

Delayed Hazard: X

**State Regulations**

**California:** This product contains the following chemical(s) known to the State of California to cause cancer, birth defects, or reproductive harm: None

**New Jersey Trade Secret Registry Number(s):** None

**International Regulations**

**Canadian Environmental Protection Act:** This product or its components, are listed on or are exempt from the Canadian Domestic Substance List.

**Canadian Workplace Hazardous Materials Information System (WHMIS):** Included In Inventory

**Hazard Classification:** Class D Division 2B

**WHMIS Trade Secret Registry Numbers:** 4832

**WHIS Hazardous Ingredients:** Triethylenetetramine (TETA)

**WHMIS Symbols:** Stylized T

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

**EU Classification:** This product is not classified according to current EU directive.

**EU Risk (R) and Safety (S) Phrases:**

**EEC Risk (R) Phrases:** R21/22 Harmful in contact with skin and if swallowed.

**EEC Safety Phrases:** S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 After contact with skin, wash immediately with plenty of water. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**16. Other Information****National Fire Protection Association (NFPA) Ratings:**

Health: 3

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.

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