



FFE-200 Fairing & Bonding Epoxy Activator Safety Data Sheet

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1. Identification

Product Name:	FFE-200 Fairing & Bonding Epoxy Activator
Synonyms:	N/A
CAS Number:	Mixture
Product Use:	Marine Deck Fairing/Bonding
Manufacturer/Supplier:	Teakdecking Systems, Inc.
Address:	7061 15 th 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 2b		
Skin Irritant - Category 2		
Skin Sensitization – Category 1		

GHS Label:



GHS Hazard Statements:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H320 Causes eye irritation.

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+P313 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 %
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	500-191-5	40%
Fatty Acids, C18-Unsat., Dimers, Polymers w/ 3,3'-[oxybis (2,1-Ethanediyoxy)] Bis (1-Propanamine)	68541-13-9	16%
Benzyl Alcohol	100-51-6	4%
Tertiary Amine	90-72-2	4%
m-xylylenediamine	1477-55-0	5%
Triethylenetetramine	112-24-3	3%

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 immediate medical attention.

Skin: Itching or burning of the skin. Flush immediately with plenty of water and remove contaminated clothing and shoes. 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. Do not induce vomiting unless directed by medical personnel.

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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. Thermal decomposition products may include oxides of carbon, oxides of nitrogen, or ammonia gases.

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.

8. Exposure Controls / Personal Protection

Exposure Limits: Not Established

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

Appearance:	Gray thixotropic paste
Odor:	Mild ammonia odor
pH:	Alkaline
Melting Point:	No Data
Boiling Point:	>177°C (>350°F)
Flashpoint:	117°C (243°F)
Autoignition Temperature:	No Data
Lower Flammability Limit:	No Data
Upper Flammability Limit:	No Data
Vapor Pressure:	3.0 mm Hg @ 20°C
Vapor Density (Air=1):	No Data
Specific Gravity:	1.02
% Solubility in Water:	Slight
Pour Point:	N/A
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Viscosity:	Thixotropic

10. Stability and Reactivity

Chemical Stability: Stable

Incompatibility (Materials to Avoid): Strong acids, mineral acids (i.e. sulfuric, phosphoric, etc.), alkalis (i.e. sodium or potassium hydroxide, etc.), organic acids (i.e. acetic acid, citric acid, etc.), reducing agents (i.e. hydrides, sulfites, etc.), oxidizing agents (i.e. perchlorates, nitrates, etc.), reactive metals (i.e. sodium, calcium, zinc, etc.), amines, nitrites, materials reactive with hydroxyl compounds, and sodium or 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): Oxides of nitrogen, ammonia, nitric acid, aldehydes, carbon dioxide, and carbon monoxide.

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): Contact with the skin may cause dryness (defatting), itching, and/or rash. Contact with the eyes or skin causes moderate eye and skin irritation, redness, and discomfort which is transient. 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).

Medical Conditions Generally Aggravated By Exposure:

Allergies

Eye disease

Skin disorders

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

Target Organ Effects: N/A

Chronic Effects: N/A

Acute Toxicity Values:

Oral LD₅₀ (Rat) = 1230 mg/kg

Dermal LD₅₀ (Rabbit) = 805 mg/kg

Inhalation LC₅₀ (Rat) = No Data

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

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): 05995500-(H2353U)

International Regulations

Canadian Environmental Protection Act: All of the components of this product are included on the Canadian Domestic Substances List (DSL).

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), Benzyl Alcohol

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: None

16. Other Information

National Fire Protection Association (NFPA) Ratings:

Health: 2

Flammability: 0

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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