

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tuffbond [®] 307	Product Type: Epoxy Adhesive
Company : Hernon Manufacturing, Inc. 121 Tech Drive Sanford, FL 32771	Contact Information: Telephone: 407-322-4000 Emergency Telephone: 800-255-3924 Web Site: www.hernon.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Paste
 Color: Tan
 Odor: Slight amine

HMIS:
 HEALTH: 2*
 FLAMMABILITY: 1
 PHYSICAL HAZARD: 1
 Personal Protection: See Section 8

WARNING: HARMFUL IF INHALED.
 MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Primary Routes of Entry: Skin, inhalation, eyes

Signs and Symptoms of Exposure:

Inhalation: This material does not normally present an inhalation hazard, however, in applications where vapors (caused by high temperatures) or mists (caused by mixing) are created, breathing may cause a mild burning sensation in the nose, throat and lungs.

Eye Contact: May cause temporary discomfort or irritation to the eye. Contact with hot material can cause thermal burns which may result in permanent damage or blindness.

Skin Contact: May be slightly irritating to the skin. Repeated skin contact may result in an allergic skin reaction causing itching, burning, redness, and swelling. Contact with hot matter can cause thermal burns which may result in permanent damage.

Ingestion: Not expected to be a relevant route of exposure.

Existing Conditions Aggravated by Exposure: Eye, skin, and respiratory disorders.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Polyamide Hardener	60-80	None	None	None
Epoxy resin	30-40	None	None	None
Silica, fumed	1-5	6 mg/m ³ TWA	10 mg/m ³ TWA	3 mg/m ³ TWA respirable dust

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin Contact: Wash with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if symptoms occur.
Eye Contact: Flush with water for at least 15 minutes. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash Point (TCC): > 200°F
Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting Procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Water may be used to cool closed containers. High pressure stream will spread fire.
Hazardous Combustion Products: Irritating organic vapors
Unusual Fire or Explosion Hazards: None
Flammable/Explosive Limits – lower %: NA
Flammable/Explosive Limits – upper %: NA

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear proper protective equipment
Measures for Environmental Protection: Do not allow entry into drains or surface waters
Clean-up Measures: Soak up with an inert absorbent. Store in partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Use only with adequate ventilation.
Storage: Keep refrigerated

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye/Face Protection: Safety glasses or goggles with side shields
Skin Protection: Use rubber or plastic gloves, and protective clothing as necessary
Respiratory Protection: Use NIOSH approved respirator if there is a potential to exceed exposure limits
Engineering Controls: Forced ventilation may be required if concentrations exceed exposure limits

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Paste
Color: Tan
Odor: Slight amine
Vapor Pressure: < 5 mm at 80°F
Vapor Density: Not available
Solubility in Water: Slight
Specific Gravity: 1.20
Boiling Point: More than 300°F
Volatile Organic Compound Content Not available
Evaporation Rate (Ether = 1) Not available
pH: Does not apply

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: None
Incompatibility: Strong acids, bases, amines, mercaptanes, moisture

11. TOXICOLOGICAL INFORMATION

Ingredients:	Literature Referenced Target Organ and Other Health Effects	Carcinogen Status		
		NTP	IARC	OSHA
Polyamide Hardener	No data	NO	NO	NO
Epoxy resin	IRR	NO	NO	NO
Silica, fumed	NTO	NO	NO	NO

Abbreviations:

IRR Irritant **NTO** No Target Organs

12. ECOLOGICAL INFORMATION

Ecological Information: Not available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Dispose of according to Federal, State and Local regulations.
EPA Hazardous Waste Number: Not an RCRA hazardous waste

14. TRANSPORTATION INFORMATION

U.S. Dept. of Transportation Ground (49 CFR):

Proper Shipping Name Unrestricted
Hazard Class or Division: None
Identification Number None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper Shipping Name: Unrestricted
Hazard Class or Division: None
Identification Number None
Packing group: None

Water Transportation (IMO/IMDG):

Proper Shipping Name: Unrestricted
Hazard Class or Division: None
Identification Number None
Packing group: None
Marine pollutant: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory

CERCLA/SARA 313: This product contains the following chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): None

California Proposition 65: This product contains trace quantities of a chemical (or chemicals) known to the state of California to cause cancer, birth defects, and/or other reproductive harm.

16. OTHER INFORMATION

Prepared By: Jerry Litteral
Title: Director - Quality & Development

DISCLAIMER: Some of the information presented is from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.