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1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tuffbond® 309 **Product Type: Epoxy Adhesive**

Company: **Contact Information:** Hernon Manufacturing, Inc. Telephone: 407-322-4000

> 121 Tech Drive Emergency Telephone: 800-255-3924

Sanford, FL 32771 Web Site: www.hernon.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS: Physical state: Paste HEALTH: 2* Color: Black FLAMMABILITY: Odor: Slight amine

PHYSICAL HAZARD: 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**

Ingredients	%	ACGIH TLV	OSHA PEL	<u>OTHER</u>
Polyamide Hardener	50-70	None	None	None
Epoxy resin	30-40	None	None	None
Silica, fumed, treated	1-5	3mg/m³ TWA Respirable particles	None	None
Carbon Black	0.1-1	3 mg/m³	3 mg/m³	3 mg/m³



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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 ventalation may be required if concentrations exceed exposure limits



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Paste
Color: Black

Odor:Slight amineVapor Pressure:< 5 mm at 80°F</th>Vapor Density:Not available

Solubility in Water: Slight
Specific Gravity: 1.20

Boiling Point:More than 300°FVolatile Organic Compound ContentNot availableEvaporation Rate(Ether = 1)Not availablepH: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

Literature Referenced Target Organ Carcinogen Status Ingredients: and Other Health Effects NTP IARC **OSHA** Polyamide Hardener No data NO NO NO **IRR** NO NO NO **Epoxy resin** NTO Silica, fumed, treated NO NO NO **Carbon Black RES** 2B NO NO

Abbreviations:

IRR Irritant RES Respiratory NTO No Target Organs 2B Suspect carcinogen

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



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14. TRANSPORTATION INFORMATION

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

Proper Shipping Name Unrestricted

Hazard Class or Division:NoneIdentification NumberNonePacking group:None

International Air Transportation (ICAO/IATA):

Proper Shipping Name: Unrestricted

Hazard Class or Division:NoneIdentification NumberNonePacking group:None

WaterTransportation (IMO/IMDG):

Proper Shipping Name: Unrestricted

Hazard Class or Division:NoneIdentification NumberNonePacking group:NoneMarine 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.