

01/2012

1. PRODUCT AND COMPANY IDENTIFICATION

121 Tech Drive

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

Emergency Telephone: 800-255-3924

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

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Liquid HEALTH: 2*
Color: Black FLAMMABILITY: 1

Odor: Unpleasant PHYSICAL HAZARD: 0

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.

2. COMPOSITION / INFORMATION ON INGREDIENTS

 Ingredients
 %
 ACGIH TLV
 OSHA PEL
 OTHER

 Epoxy resin
 60-100
 None
 None
 None

 Carbon black
 < 0.1</td>
 3.5 mg/m³ TWA
 3.5 mg/m³ TWA
 3.5 mg/m³ TWA



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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: Store between 46° and 85°F unless otherwise labeled to preserve shelf life.

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



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Black

Odor: Unpleasant

Vapor Pressure:> 50 mm at 80°FVapor Density:Not available

Solubility in Water: Slight
Specific Gravity: 1.17

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: None

11. TOXICOLOGICAL INFORMATION

Literature Referenced Target Organ Carcinogen Status

Ingredients:and Other Health EffectsNTPIARCOSHAEpoxy resinIRRNONONOCarbon blackRESNO2BNO

Abbreviations:

IRR Irritant RES Respiratory 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:

Identification Number

None

Packing group:

None

International Air Transportation (ICAO/IATA):

Proper Shipping Name: Unrestricted

Hazard Class or Division:NoneIdentification NumberNonePacking group:None

Water Transportation (IMO/IMDG):

Proper Shipping Name: Unrestricted

Hazard Class or Division:

Identification Number

None

Packing group:

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 - Carbon black

16. OTHER INFORMATION

Prepared By: C. Alt

Title: Manager - 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.



01/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Tuffbond® 304B Product Type: Hardener

Company: Hernon Manufacturing, Inc. Contact Information: 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

Physical state: Liquid 2*
Color: Yellow FLAMMABILITY: 1
Odor: Unpleasant PHYSICAL HAZARD: 0

Personal Protection: See Section 8

HMIS:

WARNING: CORROSIVE LIQUID.

MAY BE IRRITATING TO EYES AND SKIN.

MAY BE HARMFUL IF SWALLOWED

Primary Routes of Entry: Skin, inhalation, ingestion

Signs and Symptoms of Exposure:

Inhalation: Mist or vapor can cause irritation of respiratory tract and burns to mucous

membranes. Possible allergic reaction.

Eye Contact: May cause severe irritation and burns.

Skin Contact: May cause severe irritation and burns. Possible allergic reaction.

Ingestion: May cause gastrointestinal tract irritation, nausea, vomiting, diarrhea and

possible ulcerations to mucous membranes.

Existing Conditions Aggravated by Exposure: Skin, eye, and lung

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients%ACGIH TLVOSHA PELOTHERMercaptan Terminated Polymer80-100None EstablishedNone EstablishedNone EstablishedSubstituted Aminophenol10-20None EstablishedNone EstablishedNone Established



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4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Give large amounts of water followed by milk if

available. If vomiting should occur spontaneously, keep airway clear. Get

medical attention. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.

Skin Contact:Wash immediately with plenty of water. Remove contaminated clothing and footwear. Wash clothing before reuse. Discard footwear that has been

contaminated on the inner surfaces. Seek immediate medical attention.

Eye Contact: Immediately flush with plenty of water for at least 20 minutes holding eyelids

apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Get medical attention

immediately.

5. FIRE FIGHTING MEASURES

Flash Point (TCC): > 200°F

Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical, or water fog

Special Firefighting Procedures: Cool exposed containers with water spray. Wear self-contained breathing

apparatus and full protective clothing, such as turn-out gear.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide, nitrogen oxides.

Unusual Fire or Explosion Hazards: Corrosive liquid
Flammable/Explosive Limits – lower %: Not determined
Flammable/Explosive Limits – upper %: Not determined

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 absorbent material and place in labeled containers for recovery or

disposal. Wear adequate personal protective clothing and equipment.

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: Store in cool, dry, well ventilated areas away from heat and sunlight. Isolate

from substances which may release corrosive, toxic or flammable compounds on reaction to this product. Do not store near epoxy resins. Protect containers

from damage.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye/Face Protection: Safety glasses or goggles with side shields

Skin Protection:

Use appropriate chemical resistant 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: Liquid

Color: Yellow

Odor:UnpleasantVapor Pressure:Not available

Vapor Density:

Solubility in Water:

Low

Specific Gravity: 1.13

Boiling Point: More than 300°F

Volatile Organic Compound Content 7.3%

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 expected

Incompatibility: Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Literature Referenced Target Organ Carcinogen Status

Ingredients:and Other Health EffectsNTPIARCOSHAPolymercaptanNo dataNONONO

PolymercaptanNo dataNO NO NOSubstituted AminophenolIRRNO NO NO

Abbreviations:

IRR Irritant

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 AMINES, LIQUID, CORROSIVE, N.O.S. (tris-2,4,6-(dimethylamino-

methyl)phenol)

Hazard Class or Division: 8

Identification Number UN2735

Packing group:

International Air Transportation (ICAO/IATA):

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (tris-2,4,6-(dimethylamino-

methyl)phenol)

Hazard Class or Division: 8

Identification Number UN2735

Packing group:

WaterTransportation (IMO/IMDG):

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (tris-2,4,6-(dimethylamino-

methyl)phenol)

Hazard Class or Division: 8

Identification Number UN2735

Packing group:

15. REGULATORY INFORMATION

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Title: Manager - Quality & Development

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