

1. PRODUCT AND COMPANY IDENTI	FICATION				
Product Name: Tuffbond <sup>®</sup> 305A Company : Hernon Manufacturing, Inc. 121 Tech Drive Sanford, FL 32771	Product Type: Contact Informatior	: Telephone Emergene	Epoxy Adhesive Telephone: 407-322-4000 Emergency Telephone: 800-255-3924 Web Site: www.hernon.com		
2. HAZARDS IDENTIFICATION					
	EMERGENCY OVER	VIEW			
Physical state: Liquid Color: Clear Odor: Unpleasant			<b>HMIS:</b> HEALTH: FLAMMABILITY: PHYSICAL HAZARD: Personal Protection:	2* 1 0 See Section 8	
WARNING:	HARMFUL IF INHALEE MAY CAUSE EYE, SKI		PIRATORY TRACT I	RRITATION.	
Primary Routes of Entry:	Skin, inhalation, eyes	;			
Signs and Symptoms of Exposure:					
Inhalation:	applications where va	apors (caused	present an inhalation by high temperatures cause a mild burning s	) or mists (caused by	
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 respire	atory disorders	i.		
3. COMPOSITION / INFORMATION O	N INGREDIENTS				
Ingredients	<u>%</u> <u>A</u>	CGIH TLV	OSHA PEL	<u>OTHER</u>	
Epoxy resin	90-100	None	None	None	



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			
Special Filenghung Frocedures.	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 MEASURE	S			
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, PERSONA	AL 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 PROPERTI	ES			
Physical State:	Liquid			
Color:	Clear			
Odor:	Unpleasant			
Vapor Pressure:	Not available			
Vapor Density:	Not available			
Solubility in Water:	None			
Specific Gravity:	1.17			
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:	None			
11. TOXICOLOGICAL INFORMATION				
	Literature Referenced Target Organ	Car	cinogen	Status
Ingredients:	and Other Health Effects	NTP	IARC	OSHA
Epoxy resin	IRR	NO	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 regula	tions.		
EPA Hazardous Waste Number:	Not an RCRA hazardous waste			



14. TRANSPORTATION INFORMAT	ION
J.S. Dept. of Transportation Ground (49 C	FR):
Proper Shipping Name	Unrestricted
Hazard Class or Division:	None
Identification Number	None
Packing group:	None
nternational Air Transportation (ICAO/IAT	A):
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 Substance Control Act Inventory
CERCLA/SARA 313:	This product contains the following chemicals subject to the reportin requirements of section 313 of the Emergency Planning and Community Righ To-Know Act of 1986 (40 CFR 372): None
California Proposition 65:	This product contains trace quantities of a chemical (or chemicals) known the state of California to cause cancer, birth defects, and/or other reproductive harm – None
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.



1. PRODUCT AND COMPANY IDEN	TIFICATION		
Product Name: Tuffbond® 305B	Product Type:	Hardener	
<b>Company :</b> 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 OVERV	IEW	
Physical state: Liquid		HMIS: HEALTH: 2*	
Color: Yellow		FLAMMABILITY: 1	
Odor: Unpleasant		PHYSICAL HAZARD: 0	
		Personal Protection: See Section	n 8
WARNING:	CORROSIVE LIQUID.		
	MAY BE IRRITATING TO	O EYES AND SKIN.	
	MAY BE HARMFUL IF S		
Primary Routes of Entry:	Skin, inhalation, inges	tion	
Signs and Symptoms of Exposure:			
Inhalation:	Mist or vapor can ca	use irritation of respiratory tract and burns to	mucous
	membranes. Possible	allergic reaction.	
Eye Contact:	May cause severe irrit	ation and burns.	
Skin Contact:	May cause severe irrit	ation and burns. Possible allergic reaction.	
Ingestion:	May cause gastrointe possible ulcerations to	estinal tract irritation, nausea, vomiting, diarrh mucous membranes.	iea and
Existing Conditions Aggravated by Exposu	re: Skin, eye, and lung		
3. COMPOSITION / INFORMATION (			
3. COMPOSITION / INFORMATION (			
Ingredients	_%AC	GIH TLV OSHA PEL OTHE	R
Mercaptan Terminated Polymer		Established None Established None Established	
Substituted Aminophenol		Established None Established None Established	



Tuffbond<sup>®</sup> 305B

## 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 MEASURE	S		
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, PERSONA	L PROTECTION		
Eye/Face Protection:	Sofoty glospop or gogglop with side shields		
	Safety glasses or goggles with side shields		
Skin Protection:	Use appropriate chemical resistant gloves, and protective clothing as necessary		
	Use appropriate chemical resistant gloves, and protective clothing as		



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9. PHYSICAL AND CHEMICAL PROPE	RTIES				
Physical State:	Liquid				
Color:	Yellow				
Odor:	Unpleasant				
Vapor Pressure:	Not available				
Vapor Density:	Not available				
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	Car	cinogen	Status	
Ingredients:	and Other Health Effects	NTP	IARC	OSHA	
Polymercaptan	No data	NO	NO	NO	
Substituted Aminophenol	IRR	NO	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 Lo	cal regulations.			
EPA Hazardous Waste Number:	Not an RCRA hazardous waste				



## Tuffbond<sup>®</sup> 305B

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14.	TRANSPORTATION INFORMATION				
J.S. I	Dept. of Transportation Ground (49 CFR):				
	Proper Shipping Name	AMINES, LIQUID, methyl)phenol)	CORROSIVE,	N.O.S.	(tris-2,4,6-(dimethylamine
	Hazard Class or Division:	8			
	Identification Number	UN2735			
	Packing group:	111			
nterr	national Air Transportation (ICAO/IATA):				
	Proper Shipping Name:	AMINES, LIQUID, methyl)phenol)	CORROSIVE,	N.O.S.	(tris-2,4,6-(dimethylamine
	Hazard Class or Division:	8			
	Identification Number	UN2735			
	Packing group:	III			
Wate	r Transportation (IMO/IMDG):				
	Proper Shipping Name:	AMINES, LIQUID, methyl)phenol)	CORROSIVE,	N.O.S.	(tris-2,4,6-(dimethylamine
	Hazard Class or Division:	8			
	Identification Number	UN2735			
	Packing group:	Ш			
15.	REGULATORY INFORMATION				
Unite	d States Regulatory Information				
	TSCA 8 (b) Inventory Status:	All components are lis Control Act Inventory	ted or are exemp	t from listi	ng on the Toxic Substance
	CERCLA/SARA 313:		n 313 of the Emer		s subject to the reportin nning and Community Righ
16.	OTHER INFORMATION				
Prepa	ared By:	C. Alt			
Title:		Manager - Quality & D	evelopment		
obtain correc knowle any wa	<b>_AIMER:</b> Some of the information presented is from ed from sources which we believe are reliable. Ho tness. The conditions or methods of handling, sto edge. For this and other reasons, we do not assume ay connected with the handling, storage, use or disport t is used as a component in another product, this MS	wever, the information is pr prage, use and disposal of responsibility and expressly psal of the product. This MS	ovided without any the product are be disclaim liability for l DS was prepared ar	warranty, e yond our co loss, damag	xpress or implied, regarding i ontrol and may be beyond o le or expense arising out of or