

# SAFETY DATA SHEET

Issue Date 30-Jun-2015

Revision Date 01-May-2023

Version 3

	1. IDENTIFICATION			
Product identifier				
Product Name	Tuffbond 304A			
Other means of identification				
Product Code	MS-304A			
Synonyms	None			
Recommended use of the chemica	and restrictions on use_			
Recommended Use	Epoxy Adhesive.			
Uses advised against	None known			
Details of the supplier of the safety	data sheet_			
Manufacturer Address				
Hernon Manufacturing Inc.				
121 Tech Drive				
Sanford, FL 32771				
800-527-0004				
Emergency telephone number				
Company Phone Number	407-322-4000			
Emergency Telephone	Chemtel 800-255-3924			
	2. HAZARDS IDENTIFICATION			
Classification				
OSHA Regulatory Status	OSHA Regulatory Status			

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

# Label elements

**Emergency Overview** 

# Warning

Hazard statements Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction



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Appearance	opaque	Physical	state	Liauid	Odor	Unple	easan
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## **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse If skin irritation or rash occurs: Get medical advice/attention

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

# Hazards not otherwise classified (HNOC)

Not applicable

#### Other Information

Toxic to aquatic life with long lasting effects.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Substance

Chemical Name	CAS No.	Weight-%	Trade Secret	
BISPHENOL A EPOXY RESIN	25068-38-6	60 - 100	*	
*The exact percentage (concentration) of composition has been withheld as a trade secret				

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# 4. FIRST AID MEASURES

#### **Description of first aid measures**

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.		
Skin contact	Wash with soap and water. Flush skin with water for several minutes. Remove contaminated clothing and shoes. If irritation develops, seek medical attention. Wash clothing before reuse.		
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.		
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.		
Most important symptoms and effects, both acute and delayed			
Symptoms	None known.		
Indication of any immediate medical attention and special treatment needed			
Note to physicians	Treat symptomatically.		

# **5. FIRE-FIGHTING MEASURES**

# Suitable extinguishing media

Carbon dioxide (CO2). Extinguishing powder. Water spray (fog).

Unsuitable extinguishing media Water jet.

#### Specific hazards arising from the chemical

None in particular.

Hazardous combustion products Carbon dioxide (CO2). Nitrogen oxides (NOx).

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures **Personal precautions** Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Environmental precautions **Environmental precautions** See section 12 for additional ecological information. Methods and material for containment and cleaning up Methods for containment Prevent further leakage or spillage if safe to do so. Methods for cleaning up Soak up with inert absorbent material. Store in a closed container until ready for disposal. 7. HANDLING AND STORAGE Precautions for safe handling Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly Advice on safe handling after handling. Ensure adequate ventilation, especially in confined areas. Conditions for safe storage, including any incompatibilities **Storage Conditions** Keep at temperatures between 7 and 29 °C. Incompatible materials Acids. Bases. Amines. Oxidizing agents. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	Wear protective gloves and protective clothing.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on basic physical and chemical properties

Physical state Appearance Color	Liquid opaque Black	Odor Odor threshold	Unpleasant Not applicable
Property pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density Relative density Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties	ValuesNot applicable> 260 °C / 500 °F> 252 °C / 486 °FNot applicableNot applicableNot applicableNot applicable0.03 hPa @ $77^{\circ}C / 171^{\circ}F$ Not applicable1.17InsolubleNot applicableNot applicableNot applicable0.03 hPa @ $77^{\circ}C / 171^{\circ}F$ Not applicableNot applicable	<u>Remarks • Method</u>	
Other Information Softening point Molecular weight VOC Content (%) Density Bulk density	Not applicable Not applicable Not applicable Not applicable Not applicable		

# **10. STABILITY AND REACTIVITY**

# Reactivity Not applicable

#### **Chemical stability**

Stable under recommended storage conditions.

#### **Possibility of Hazardous Reactions**

None under normal processing.

#### **Conditions to avoid**

Incompatible materials.

#### Incompatible materials

Acids. Bases. Amines. Oxidizing agents.

## **Hazardous Decomposition Products**

Carbon monoxide. Carbon dioxide (CO2).

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Product Information	None
Inhalation	No known effect based on information supplied.
Eye contact	No known effect based on information supplied.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
BISPHENOL A EPOXY RESIN 25068-38-6	= 11400 mg/kg (Rat)	Not applicable	Not applicable

# Information on toxicological effects

Symptoms

# See Section 11: TOXICOLOGICAL INFORMATION.

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization None known. Germ cell mutagenicity None known. Carcinogenicity Not applicable **Reproductive toxicity** Not applicable Not applicable STOT - single exposure STOT - repeated exposure Not applicable Not applicable Aspiration hazard

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document . ATEmix (oral)

11,400.00 mg/kg

# **12. ECOLOGICAL INFORMATION**

## Ecotoxicity

Toxic to aquatic life with long lasting effects.

# Persistence and degradability

None known.

# Bioaccumulation

None known.

# Other adverse effects

Not applicable

# **13. DISPOSAL CONSIDERATIONS**

# Waste treatment methods

**Disposal of wastes** 

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** 

Do not reuse container.

# **14. TRANSPORT INFORMATION**

DOT UN/ID no. Proper shipping name Hazard Class Packing Group Special Provisions Description	Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated Not regulated
IATA UN/ID no. Proper shipping name Hazard Class Packing Group Special Provisions Description	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy Resin) 9 III A97, A158, A197 Limited Quantities: 5 L, 30 kg gross weight
IMDG UN/ID no. Proper shipping name Hazard Class Packing Group EmS-No. Special Provisions Marine pollutant Description	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy Resin) 9 III F-A, S-F 274, 335, 969 Yes Limited Quantities: 5 L, 30 kg gross weight

# **15. REGULATORY INFORMATION**

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International Inventories
TSCA
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Complies

DSL/NDSL EINECS/ELINCS	Complies Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

All ingredients are on the inventory or are exempt from listing.

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances **PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

## **U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

# **16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<u>NFPA</u>	Health hazards 0	Flammability	0	Instability 0	Physical and Chemical Properties Not applicable
<u>HMIS</u>	Health hazards 0	Flammability	0	Physical hazards 0	Personal protection X
Issue Date	30-Jun-2015				

# Revision Date Revision Note Not applicable Disclaimer

01-May-2023

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**