

# SAFETY DATA SHEET

Issue Date 28-Apr-2023

Revision Date 01-May-2023

Version 1

	1. IDENTIFICATIO	N	
Product identifier			
Product Name	Tuffbond 312-1A		
Other means of identification			
Product Code	MS-312-1A		
Synonyms	None		
Recommended use of the chemi	cal and restrictions on use_		
Recommended Use	Epoxy Adhesive.		
Uses advised against	None known		
Details of the supplier of the safe	ety 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 IDENTIFI	CATION	
<u>Classification</u>			
OSHA Regulatory Status This chemical is considered hazard	lous by the 2012 OSHA Hazard Commu	nication Standard (29 CFR 1910.1200)	
Skin corrosion/irritation		Category 2	
Serious eve damage/eve irritation		Category 2	

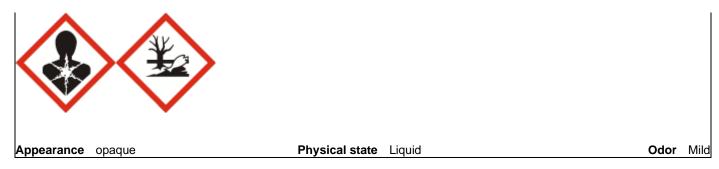
okin concolori/integion	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 2
Reproductive toxicity	Category 2

### Label elements

**Emergency Overview** 

# Danger

Hazard statements Causes skin irritation Causes serious eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction Suspected of causing cancer Suspected of damaging fertility or the unborn child



#### **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Wear protective gloves

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention 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 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

#### **Precautionary Statements - Storage**

Store locked up

#### **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 expert percentage (concentration) of composition has been withheld as a trade second			

The exact percentage (concentration) of composition has been withheld as a trade secret.

# 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 physiciana		

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 monoxide. 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.	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions		
Environmental precautions	Do not allow into any sewer, on the ground or into any body of water. 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	Store in a closed container until ready for disposal.	

7. HANDLING AND STORAGE			
Precautions for safe handling			
Advice on safe handling	Avoid contact with skin, eyes or clothi after handling. Ensure adequate vent		
Conditions for safe storage, includ	ing any incompatibilities		
Storage Conditions	Keep at temperatures between 46°F	and 82°F (8°C and 28°C).	
Incompatible materials	Acids. Bases. Amines. Oxidizing ager	nts.	
8. EX	POSURE CONTROLS/PERSON	NAL PROTECTION	
Control parameters			
Exposure Guidelines	This product, as supplied, does not co exposure limits established by the reg		
Appropriate engineering controls	exposure innits established by the rec	non specific regulatory bo	ules.
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	e clothing.	
Respiratory protection	If exposure limits are exceeded or irri- respiratory protection should be worn required for high airborne contaminar provided in accordance with current lo	. Positive-pressure supplie t concentrations. Respirat	ed air respirators may be
General Hygiene Considerations	Handle in accordance with good indu	strial hygiene and safety p	ractice.
	9. PHYSICAL AND CHEMICAL	PROPERTIES	
Information on basic physical and	chemical properties		
Physical state Appearance Color	Liquid opaque Amber	Odor Odor threshold	Mild 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	Values Does not apply Not applicable > 149 °C / 300 °F > 93.3 °C / 200 °F Not applicable Not applicable Not applicable 0.03 hPa @ 77 °C / 171 °F Not applicable 1.21	Remarks• MethodDiluentNot applicableNot applicableNot applicableDiluentDiluentNot applicableNot applicable	

Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties Other Information	Insoluble Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable	Not applicable Dibutentplicable Dibutentplicable Dibutentplicable Dibutentplicable Dibutentplicable
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**

Inhalation	Not applicable.
Eye contact	No known effect.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.

#### 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	
Reproductive toxicity	None known.
STOT - single exposure	No known effects under normal use conditions.
STOT - repeated exposure	None under normal use conditions.
Aspiration hazard	Not applicable.

### Numerical measures of toxicity - Product Information

# The following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)11,552.30 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

None known

# **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	Not regulated
UN/ID no.	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing Group	Not regulated
Special Provisions	Not regulated
Description	Not regulated
IATA UN/ID no. Proper shipping name Hazard Class Packing Group Special Provisions	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy Resin) 9 III A97, A158, A197

#### Description

# Limited Quantities: 5L, 30 kg gross weight

#### IMDG

UN/ID no.	UN 3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A Epoxy Resin)
Hazard Class	9
Packing Group	III
EmS-No.	F-A, S-F
Special Provisions	274, 335, 969
Description	Limited quantities: 5 L, 30 kg gross weight

# **15. REGULATORY INFORMATION**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	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 (	)	Instability 0	Physical and Chemical Properties Not applicable
HMIS	Health hazards 0	Flammability (	)	Physical hazards	
Prepared By Issue Date Revision Date Revision Note Not applicable <u>Disclaimer</u>	SDS coord 28-Apr-202 01-May-202	23			

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