

# SAFETY DATA SHEET

Issue Date 08-Jun-2015

Revision Date 27-Oct-2015

Version 1

1. IDENTIFICATION		
Product identifier		
Product Name	Tuffbond 65891A	
Other means of identification		
Product Code	MS-65891A	
UN/ID no.	None	
Synonyms	None	
Recommended use of the chemic	al and restrictions on use	
Recommended Use	Epoxy Adhesive.	
Uses advised against	None known	
Details of the supplier of the safe	ty 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**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

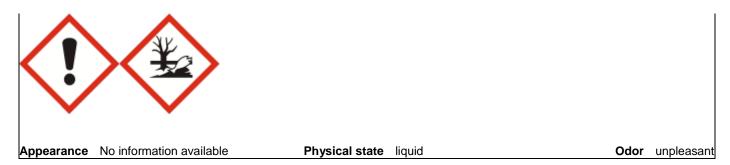
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

## Label elements

**Emergency Overview** 

## Warning

Hazard statements Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction Toxic to aquatic life with long lasting effects



#### 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

Not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
Epoxy Resin / Bisphenyl A epoxy resin	25068-38-6	60 - 100	*
*The exact percentage (concentration) of composition has been withheld as a trade secret			

he 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

No information available.

#### Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

### **5. FIRE-FIGHTING MEASURES**

## Suitable extinguishing media

Use CO2, dry chemical, or foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Irritating organic vapors.

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	Do not allow into any sewer, on the ground or into any body of water. Collect spillage.
Methods and material for containm	ent and cleaning up
Methods for containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
	7. HANDLING AND STORAGE
Precautions for safe handling	
Advice on safe handling	Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly 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 None.

## 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, suc	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 No information available Blue	Odor Odor threshold	unpleasant No information available
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 Explosive properties Oxidizing properties	ValuesDoes not applyNo information available> 150 / 300 °F> 93 °C / 200 °FNo information availableNo information availableNo information availableNo information available> 50 mm at 80°FNo information available1.17slightly solubleNo information availableNo information available0 information available0 information availableNo information available	<u>Remarks • Method</u>	
Softening point	No information available		

Molecular weight VOC Content (%) Density Bulk density No information available 0.2 % No information available No information available

**10. STABILITY AND REACTIVITY** 

Reactivity No data available

#### **Chemical stability**

Stable under recommended storage conditions. Possibility of Hazardous Reactions None under normal processing. Conditions to avoid Incompatible materials. Incompatible materials None. Hazardous Decomposition Products None.

## **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

Product Information	No data available
Inhalation	No known effect based on information supplied.
Eye contact	Irritating to eyes.
Skin contact	May cause skin irritation and/or dermatitis.
Ingestion	Ingestion may cause irritation to mucous membranes.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Epoxy Resin /Bisphenyl A epoxy resin 25068-38-6	= 11400 mg/kg (Rat)	-	-

## Information on toxicological effects

Symptoms

No information available.

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

Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.ATEmix (oral)12,667.00

## **12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

Persistence and degradability No information available.

# **Bioaccumulation**

No information available.

Other adverse effects

No information available

## **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 Reportable Quantity (RQ)	Not regulated None Not regulated None None None
Special Provisions	None
IATA UN/ID no. Proper shipping name Hazard Class Packing Group Special Provisions	Not regulated None Not regulated None None
IMDG UN/ID no. Proper shipping name Hazard Class Packing Group Special Provisions Marine pollutant	Regulated None Not regulated None None Not applicable
<u>RID</u> UN/ID no. Proper shipping name Hazard Class Packing Group Special Provisions	Not regulated None Not regulated None None

#### ADR

DR_	Not regulated
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Classification code	None
Special Provisions	None

## **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 0	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 0	Flammability 0	Physical hazards 0	Personal protection X
Prepared By Issue Date Revision Date Revision Note	SDS coor 08-Jun-20 27-Oct-20	15		
No information available				

Disclaimer

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



# SAFETY DATA SHEET

Issue Date 08-Jun-2015

Revision Date 07-Dec-2015

Version 1

1. IDENTIFICATION		
Product identifier		
	<b>_</b>	
Product Name	Tuffbond 65891B	
Other means of identification		
Product Code	MS-65891B	
UN/ID no.	None	
Synonyms	None	
Recommended use of the chemic	al and restrictions on use	
Recommended Use	Hardener.	
Uses advised against	None known	
Details of the supplier of the safe	ty data sheet	
Manufacturer Address		
Hernon Manufacturing Inc.		
121 Tech Drive		
Sanford, FL 32771		
800-527-0004		
000 021 0001		
Emergency telephone number		
Company Phone Number	407-322-4000	
Emergency Telephone	Chemtel 800-255-3924	

## 2. HAZARDS IDENTIFICATION

**Classification** 

#### **OSHA Regulatory Status**

This chemical is not 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 May cause an allergic skin reaction Causes serious eye irritation



Appearance Yellow

Physical state Liquid

Odor Unpleasant

### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray Wash hands thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

## Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Moderate eye irritant Moderate skin irritant May cause sensitization by skin contact

#### Other Information

Not applicable

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical Name	CAS No.	Weight-%	Trade Secret
Polyamide Resin	68410-23-1	60 - 100	*
*The event percentage (concentration) of composition has been withhold as a trade source			

\*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	No information available.	

#### Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

#### Suitable extinguishing media

Use CO2, dry chemical, or foam.

Unsuitable extinguishing media No information available.

#### Specific hazards arising from the chemical

Ammonia gas may be liberated at high temperatures. In case of incomplete combustion and increased formation of oxides of nitrogen (NOx) is to be expected. Incomplete combustion may form carbon monoxide. May generate ammonia gas. May generate toxic nitrogen oxide gases. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.

Hazardous combustion products Carbon oxides. Nitrogen oxides (NOx). Ammonia. Irritating organic vapors.

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. Collect spillage. See Section 12 for additional ecological information.	
Methods and material for containment and cleaning up		
Methods for containment	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.	
Methods for cleaning up	Remove all sources of ignition. Scrape up as much material as possible. Clean residue with soap and water. 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 clothing. Avoid breathing vapors or mists. Wash thoroughly 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

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters	
Exposure Guidelines	This product, as supplied, does not contain any hazardous materials with occupational
Appropriate engineering controls	exposure limits established by the region specific regulatory bodies.
Engineering Controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	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. Wear protective butyl rubber gloves.
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 No information available Yellow	Odor Odor threshol
Property pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air	<u>Values</u> Does not apply No information available > 150 / 300 °F > 93 °C / 200 °F No information available No information available	<u>Remarks</u> ∙ M
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	No information available No information available > 50 mm at 80°F No information available 0.97 Soluble in water No information available No information available No information available No information available No information available No information available No information available	
Other Information		

old

Unpleasant No information available

Method

Softening point Molecular weight VOC Content (%) Density Bulk density No information available No information available 7.3%; 70.81 g/L No information available No information available

## **10. STABILITY AND REACTIVITY**

## Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions. Possibility of Hazardous Reactions None under normal processing. Conditions to avoid Incompatible materials. Incompatible materials Strong oxidizing agents. Hazardous Decomposition Products None.

## **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

#### Product Information

Inhalation	No data available.
Eye contact	Irritating to eyes.
Skin contact	Irritating to skin.
Ingestion	No data available.

#### Information on toxicological effects

Symptoms

No information available.

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

No information available.
No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

## **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

No

## Persistence and degradability

No information available.

## **Bioaccumulation**

No information available.

#### Other adverse effects

No information available

### **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.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
1474	
IATAUN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
Opecial i Tovisions	NULE
IMDG	
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
Marine pollutant	Not applicable
RID	
UN/ID no.	None
Proper shipping name	Not regulated
Hazard Class	None
Packing Group	None
Special Provisions	None
ADR	
UN/ID no.	None
Proper shipping name	Not regulated

Hazard Class	None
Packing Group	None
Special Provisions	None

## **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 0	Instability 0	Physical and Chemical Properties -
HMIS	Health hazards 2	Flammability 1	Physical hazards 0	Personal protection X
Prepared By Issue Date Revision Date	SDS coord 08-Jun-20 07-Dec-20	15		
Revision Note No information available				

**Disclaimer** 

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**End of Safety Data Sheet**