

# SAFETY DATA SHEET

Issue Date 08-Jun-2015 Revision Date 23-May-2016 Version 1

# 1. IDENTIFICATION

Product identifier

Product Name Tuffbond 394

Other means of identification

Product Code MS-394
UN/ID no. None
Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Epoxy Adhesive. Uses advised against Epoxy And Epoxy Adhesive. 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**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Chronic aquatic toxicity	Category 2
Flammable liquids	Category 4

### 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
Combustible liquid

\_\_\_\_\_



Appearance No information available Physical state liquid Odor unpleasant

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

Wash face, hands and any exposed skin thoroughly after handling

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace

Keep away from flames and hot surfaces. - No smoking

Wear protective gloves/eye protection/face protection

Avoid release to the environment

### **Precautionary Statements - Response**

Specific treatment (see supplemental first aid instructions on this label)

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 water and soap

Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical advice/attention

In case of fire: Use CO2, dry chemical, or foam to extinguish

Collect spillage

### **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)

Not applicable

#### Other Information

Not applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### <u>Substance</u>

Chemical Name	CAS No.	Weight-%	Trade Secret
Epoxy Resin / Bisphenyl A epoxy resin	25068-38-6	70-90	*
Amine adduct with epoxy resin	461-58-5	10-20	*

<sup>\*</sup>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 Do not use a solid water stream as it may scatter and spread fire.

# Specific hazards arising from the chemical

No information available.

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.

**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** 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

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 Store refrigerated.

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, such 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. Use rubber or plastic 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 Liquid

AppearanceNo information availableOdorUnpleasant

Color Amber Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH Does not apply

Melting point / freezing pointNo information availableBoiling point / boiling range> 149 °C / 300 °FFlash point> 93 °C / 200 °FEvaporation rateNo information available

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit:No information availableLower flammability limit:No information available

Vapor pressure <5 mm @80°F

Vapor density No information available

Relative density 1.1891
Water solubility slightly soluble

Solubility in other solvents
Partition coefficient
Autoignition temperature
No information available
No information available

Decomposition temperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive propertiesNo information availableOxidizing propertiesNo information available

**Other Information** 

Softening pointNo information availableMolecular weightNo information available

**VOC Content (%)** 0.51%

DensityNo information availableBulk densityNo 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

None known.

**Incompatible materials** 

None.

**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.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Epoxy Resin / Bisphenyl A epoxy	= 11400 mg/kg (Rat)	-	-
resin			
25068-38-6			
Amine adduct with epoxy resin	> 20000 mg/kg (Rat)	-	-
461-58-5			

# Information on toxicological effects

**Symptoms** No information available.

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

SensitizationNo information available.Germ cell mutagenicityNo information available.CarcinogenicityNo information available.Reproductive toxicityNo information available.

STOT - single exposure
STOT - repeated exposure
Aspiration hazard
No information available.
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.

**ATEmix (oral)** 12,885.00 mg/kg

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

### 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** Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard ClassNonePacking GroupNoneSpecial ProvisionsNone

IATA Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard ClassNonePacking GroupNoneSpecial ProvisionsNone

<u>IMDG</u> Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard ClassNonePacking GroupNoneSpecial ProvisionsNone

RID Not regulated

UN/ID no. None

Proper shipping name Not regulated Hazard Class None Packing Group None Special Provisions None

ADR Not regulated

UN/ID no. None

Proper shipping name Not regulated

Hazard ClassNonePacking GroupNoneSpecial ProvisionsNone

# 15. REGULATORY INFORMATION

### **International Inventories**

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

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 hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

#### **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

NFPA Health hazards 0 Flammability 0 Instability 0 Physical and Chemical

Properties -

**HMIS** Health hazards 2\* Flammability 1 Physical hazards 1 Personal protection X

Prepared By SDS coordinator Issue Date 08-Jun-2015 Revision Date SDS coordinator 23-May-2016

**Revision Note** 

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**