



# Safety Data Sheet

Issuing Date 03-Feb-2016

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Revision Number 1

## 1. IDENTIFICATION

**Product Identifier****Product name** Magnobond 2014**Other means of identification****Product Code(s)** 2014**UN-No** 3082**Synonyms** Magnolia 2014**Recommended use of the chemical and restrictions on use****Recommended Use** This product contains epoxy constituents that have an average molecular weight of less than or equal to 700.**Uses advised against** No information available**Details of the supplier of the safety data sheet****Manufacturer Address**Magnolia Advanced Materials  
4360 NE Expressway  
Atlanta, GA 30340**Email Address**

SDS@magnolia-adv-mat.com

**Emergency telephone number****Company Phone Number****Emergency telephone number**

(770) 451-2777

INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

Account 79439

## 2. HAZARDS IDENTIFICATION

**Classification****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

**Appearance** Clear to light yellow**Physical state** Liquid**Odor** Slight ethereal**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  
 Wear protective gloves/eye protection/face protection

**Precautionary Statements - Response**

Specific treatment (see 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

**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

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable

**Mixture****Synonyms**

Magnolia 2014.

**Formula**

Not Applicable-Mixture

| Chemical Name         | CAS-No      | Weight % | Trade secret |
|-----------------------|-------------|----------|--------------|
| Epoxy resin           | Proprietary | 65-95    | *            |
| Aliphatic epoxy resin | Proprietary | 5-35     | *            |

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

### 4. FIRST AID MEASURES

**Description of first aid measures****General advice**

Remove from exposure, lie down. If symptoms persist, call a physician. Do not get in eyes, on skin, or on clothing. MAY CAUSE ALLERGIC SKIN REACTION.

**Eye contact**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.

|                                           |                                                                                                                                                |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician. |
| <b>Inhalation</b>                         | Remove from exposure, lie down. If symptoms persist, call a physician.                                                                         |
| <b>Ingestion</b>                          | Induce vomiting, but only if victim is fully conscious. Drink 1 or 2 glasses of water. Get medical advice/attention.                           |
| <b>Self-protection of the first aider</b> | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.                               |

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects** 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**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Specific hazards arising from the chemical**

No information available.

**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** Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

**Other Information** Ventilate the area.

**Environmental precautions**

**Environmental precautions** Do not allow material to contaminate ground water system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Dike for later disposal; do not apply water unless directed to do so.

**Methods for cleaning up** Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**Conditions for safe storage, including any incompatibilities**

|                              |                                                                                                                |
|------------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Storage Conditions</b>    | Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place. |
| <b>Incompatible Products</b> | Strong oxidizing agents. Amines. Acids. Bases.                                                                 |

**8. Exposure Controls/Personal Protection****Control parameters**

|                        |                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure Limits</b> | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Appropriate engineering controls**

|                             |                                                            |
|-----------------------------|------------------------------------------------------------|
| <b>Engineering Controls</b> | Ensure adequate ventilation, especially in confined areas. |
|-----------------------------|------------------------------------------------------------|

**Individual protection measures, such as personal protective equipment**

|                                       |                                                                                                                                                                          |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face protection</b>            | Safety glasses with side-shields.                                                                                                                                        |
| <b>Skin and body protection</b>       | Protective gloves.                                                                                                                                                       |
| <b>Respiratory protection</b>         | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| <b>General Hygiene Considerations</b> | Wash hands before breaks and after work.                                                                                                                                 |

**9. PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

|                                               |                               |                          |                          |
|-----------------------------------------------|-------------------------------|--------------------------|--------------------------|
| <b>Physical state</b>                         | Liquid                        | <b>Odor</b>              | Slight ethereal          |
| <b>Appearance</b>                             | Clear to light yellow         | <b>Odor threshold</b>    | No information available |
| <b>Color</b>                                  | No information available      |                          |                          |
| <b>Property</b>                               | <b>Values</b>                 | <b>Remarks/ • Method</b> |                          |
| <b>PH</b>                                     | No information available      |                          |                          |
| <b>Melting point / freezing point</b>         | No information available      |                          |                          |
| <b>Boiling Point/Range</b>                    | 260 °C / 500 °F               |                          |                          |
| <b>Flash point</b>                            | Approximately 248 °C / 478 °F |                          |                          |
| <b>Evaporation Rate</b>                       | No information available      |                          |                          |
| <b>Flammability (solid, gas)</b>              | No information available      |                          |                          |
| <b>Flammability Limit in Air</b>              |                               |                          |                          |
| <b>Upper Flammability Limit</b>               | No information available      |                          |                          |
| <b>Lower Flammability Limit</b>               | No information available      |                          |                          |
| <b>Vapor pressure</b>                         | No information available      |                          |                          |
| <b>Vapor density</b>                          | No information available      |                          |                          |
| <b>Relative Density</b>                       | 1.15                          |                          |                          |
| <b>Water solubility</b>                       | Negligible                    |                          |                          |
| <b>Solubility in other solvents</b>           | No information available      |                          |                          |
| <b>Partition coefficient: n-octanol/water</b> | No information available      |                          |                          |
| <b>Autoignition temperature</b>               | No information available      |                          |                          |
| <b>Decomposition temperature</b>              | No information available      |                          |                          |
| <b>Kinematic viscosity</b>                    | No information available      |                          |                          |
| <b>Dynamic viscosity</b>                      | No information available      |                          |                          |
| <b>Explosive properties</b>                   | No information available      |                          |                          |
| <b>Oxidizing properties</b>                   | No information available      |                          |                          |

**Other Information**

|                  |                          |
|------------------|--------------------------|
| Softening point  | No information available |
| Molecular weight | No information available |
| VOC Content      | Negligible               |
| Density          | No information available |
| Bulk density     | No information available |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under normal conditions.

### Possibility of hazardous reactions

None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

Strong oxidizing agents. Amines. Acids. Bases.

### Hazardous decomposition products

Carbon oxides. Phenols. Hydrocarbons.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

|                            |                                              |
|----------------------------|----------------------------------------------|
| <b>Product Information</b> | The product has not been tested              |
| <b>Inhalation</b>          | There is no data available for this product. |
| <b>Eye contact</b>         | There is no data available for this product. |
| <b>Skin contact</b>        | There is no data available for this product. |
| <b>Ingestion</b>           | There is no data available for this product. |

### Component Information

| Chemical Name         | LD50 Oral             | LD50 Dermal | LC50 Inhalation |
|-----------------------|-----------------------|-------------|-----------------|
| Epoxy resin           | = 11400 mg/kg ( Rat ) | -           | -               |
| Aliphatic epoxy resin | = 17100 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

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Sensitization</b>            | No information available. |
| <b>MUTAGENIC EFFECTS</b>        | No information available. |
| <b>Carcinogenicity</b>          | No information available. |
| <b>Reproductive toxicity</b>    | No information available. |
| <b>STOT - single exposure</b>   | No information available. |
| <b>STOT - repeated exposure</b> | No information available. |
| <b>Chronic toxicity</b>         | No information available. |
| <b>Aspiration hazard</b>        | 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) 12,085.00 mg/kg

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life with long lasting effects

17 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

### Persistence and degradability

Based on components product is expected to be poorly eliminated from water and poorly biodegradable.

### Bioaccumulation/Accumulation

No information available.

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste Disposal Method** Dispose of in accordance with local regulations.

**Contaminated packaging** Do not reuse container.

## 14. TRANSPORT INFORMATION

### DOT

UN-No

Not regulated

3082

### IATA

UN-No

Proper shipping name

Hazard Class

Packing group

3082

Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

9

III

### IMDG/IMO

UN-No

Proper shipping name

Hazard Class

Packing group

EmS No.

Marine pollutant

3082

Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)

9

III

F-A, S-F

This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

### ADR

Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA

Complies

DSL/NDL

Complies

|                      |          |
|----------------------|----------|
| <b>EINECS/ELINCS</b> | Complies |
| <b>ENCS</b>          | Complies |
| <b>IECSC</b>         | Complies |
| <b>KECL</b>          | Complies |
| <b>PICCS</b>         | Complies |
| <b>AICS</b>          | Complies |

**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

### **U.S. 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**

|                                          |    |
|------------------------------------------|----|
| <b>Acute health hazard</b>               | No |
| <b>Chronic Health Hazard</b>             | No |
| <b>Fire hazard</b>                       | No |
| <b>Sudden release of pressure hazard</b> | No |
| <b>Reactive Hazard</b>                   | No |

#### **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

### **U.S. State Regulations**

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals:

Ethylbenzene 100-41-4 Benzene 71-43-2 Ethylene oxide 75-21-8 **WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

### **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**

|                      |                                                                               |                       |                           |                                        |
|----------------------|-------------------------------------------------------------------------------|-----------------------|---------------------------|----------------------------------------|
| <b>NFPA</b>          | <b>Health hazard</b> 2                                                        | <b>Flammability</b> 1 | <b>Instability</b> 0      | <b>Physical and Chemical Hazards</b> - |
| <b>HMIS</b>          | <b>Health hazard</b> 0                                                        | <b>Flammability</b> 0 | <b>Physical hazards</b> 0 | <b>Personal precautions</b> X          |
| <b>Prepared by</b>   | Magnolia Advanced Materials, Inc.<br>4360 NE Expressway.<br>Atlanta, GA 30340 |                       |                           |                                        |
| <b>Issuing Date</b>  | 03-Feb-2016                                                                   |                       |                           |                                        |
| <b>Revision date</b> | 24-May-2015                                                                   |                       |                           |                                        |

**Revision note**

No information available

**Disclaimer**

The information provided in this 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