Product:
 EC-392
 Revised Date: 02/23/22

 MSDS ID:
 R1148
 Replaces Date: 01/01/19

## 1. General Information

Product Code: R1148
Trade Name(s): EC-392
Product Type: Phenyl Ester
Recommended Use: Epoxy Curative
Restrictions: None identified

Company: Designer Molecules, Inc.

10080 Willow Creek Rd. San Diego, CA 92131

Telephone: 858-348-1122

Emergency phone number (spill, leak, fire, exposure or accident):

US Domestic (800) 535-5053 (INFOTRAC) Includes Canada and Mexico

International +1 (352) 323-3500 China Specific (86) 400-120-0761 Germany Specific (49) 0800-181-2924 Australia Specific (61) 1-300-366-961

## 2. Hazards Identification

### **EMERGENCY OVERVIEW:**

#### **OSHA Hazards:**

Skin sensitizer, Irritant

## **GHS Classification:**

Skin Irritation (Category 2) Eye Irritant (Category 2A) Skin Sensitization (Category 1)

Specific Target Organ Toxicity – single exposure (Category 3)

## GHS Label Elements, including precautionary statements:



Signal Word: Warning

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P280: Wear protective gloves.

P305+P338+P351 .....

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

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**HMIS Classification:** 

Health Hazard: 2
Flammability: 0
Physical Hazards: 0

**NFPA Rating:** 

Health Hazard: 2 Fire: 0 Reactivity Hazard: 0

**POTENTIAL HEALTH EFFECTS:** 

**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation.

**EYE CONTACT:** Causes eye irritation

**SKIN CONTACT:** May be harmful if absorbed through skin. Causes skin irritation.

**SWALLOWING:** May be harmful if swallowed.

# 3. Composition/Information On Ingredients

**Synonyms:** EC-392

Phenyl ester epoxy curative hybrid of Bisphenol A

COMPONENT CAS# CONCENTRATION

2,2'-Diallyl Bisphenol A Diacetate Ether 1071466-61-9 ~100 % (by GPC)

## 4. First Aid Measures

**SWALLOWING:** Do not induce vomiting. Wash out mouth with water provided the person if fully

conscious. Get immediate medical attention.

SKIN CONTACT: Wash area with soap and water. Remove contaminated clothing and shoes. Wash

or clean before reuse.

**INHALATION:** Remove person to fresh air. If breathing has stopped, perform artificial respiration. If

breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** Flush with water for 15 minutes. Get immediate medical attention.

### **NOTES TO PHYSICIAN:**

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

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## 5. Fire and Explosion Hazard Data

FLASH POINT (method): >392°F / >200°C, (closed cup)

**AUTOIGNITION:** Not determined

**EXTINGUISHER METHOD:** CO<sub>2</sub>, foam, dry chemical

**SPECIAL FIRE-FIGHTING PROCEDURES:** 

Fire fighters should wear NIOSH/MSHA approved pressure demand self-contained breathing apparatus. Decontaminate or discard any clothing that may contain chemical

residues.

#### **UNUSUAL FIRE AND EXPLOSION HAZARDS:**

None.

## 6. Accidental Release Measures

#### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Promptly absorb spill. Remove sources of ignition. Cover drains to prevent entry into waterways. Wear personal protective equipment (clothing and gloves) when handling spilled materials.

### **PERSONAL PRECAUTIONS:**

Wear suitable NIOSH-approved protective equipment.

#### **ENVIRONMENTAL PRECAUTIONS:**

May be toxic to aquatic life. Avoid runoff to waterways and sewers.

# 7. Handling and Storage

#### STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:

For small amounts, wipe off with damp sponge. For large amounts, absorb on sand or vermiculite. Wipe off and dispose of into proper waste disposal containers.

## **WASTE DISPOSAL METHODS:**

Dissolve or mix material with proper solvent and incinerate.

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Material is generally stable. Keep away from open flames. Store at room temperature out of direct sunlight.

### OTHER PRECAUTIONS AND/OR SPECIAL HAZARDS:

None.

# 8. Exposure Controls and Personal Protection Measures

### **ENGINEERING CONTROLS**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below permissible exposure limits.

## **EXPOSURE LIMITS**

Chemical Name	ACGIH	NIOSH	OSHA- Final PELs
CAS #: 1071466-61-9	none listed	none listed	none listed

## PERSONAL PROTECTIVE EQUIPMENT

## **RESPIRATORY PROTECTION (SPECIFY TYPE):**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

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#### SKIN:

Wear appropriate protective gloves and clothing to prevent skin exposure.

### **CLOTHING:**

Wear appropriate protective clothing to prevent skin exposure.

## **EYE PROTECTION:**

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN 166.

## 9. Physical / Chemical Characteristics

**APPEARANCE:** 

Physical State: Liquid
Color: Dark amber
Odor: No odor

**OTHER PROPERTIES:** 

Boiling Point: Not determined Melting Point: Not determined

Specific Gravity (H<sub>2</sub>O=1): 1.086

Vapor Pressure:

Vapor Density (Air-1):

Solubility in water:

Not determined

Heavier than air.

Not determined

Percent volatile (weight):

Percent volatile (volume):

Volatile organic content:

Not determined

Not determined

# 10. Reactivity Hazard Data

STABILITY: Stable

**CONDITIONS TO AVOID:** Open flames, high temperatures

**INCOMPATIBLE MATERIALS:** Strong acids or bases; strong oxidizing agents, free radical

initiators

**HAZARDOUS DECOMPOSITION PRODUCTS:** 

Carbon dioxide (CO2), carbon monoxide (CO)

HAZARDOUS POLYMERIZATION: Will not occur

**CONDITIONS TO AVOID:** Open flames; strong oxidizing agents

# 11. Toxicological Information

Toxicological testing has not been performed on this product.

**CARCINOGEN STATUS:** No information found **EPIDEMIOLOGY:** No information found TERATOGENICITY: No information found No information found REPRODUCTIVE EFFECTS: **MUTAGENICITY:** No information found No information found **NEUROTOXICITY:** No data available. **ECOTOXICITY: ENVIRONMENTAL:** No data available. PHYSICAL: No data available.

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# 12. Ecological Information

**ELIMINATION** (persistance and degradability):

Biodegradability: Not determined

**AQUATIC TOXICITY:** 

Acute toxicity to fish: Not determined

Acute toxicity to

plants: Not determined Microorganisms: Not determined.

## 13. Disposal Considerations

WASTE DISPOSAL METHOD: Disposal should be in accordance with local, state of

national legislation.

**EMPTY CONTAINER WARNINGS:** Empty containers may contain product residue, follow

MSDS and label warnings even after they have been emptied.

# 14. Transport Information

Not a hazardous material for transportation.

**US DOT REGULATIONS:** 

**NON-BULK** Proper Shipping Name: Not regulated Proper Shipping Name: Not regulated

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized safety officer. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

# 15. Regulatory Information

### **EU ADDITIONAL CLASSIFICATION:**

Symbol of Danger: Xi Indication of Danger: Irritation



Indication of Danger: Irritant R Phrases: 36/37/38

Risk Statements: Irritating to eyes, respiratory system and skin.

S Phrases: 26 - 36

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice. Wear suitable protective clothing.

**US CLASSIFICATION AND LABEL TEXT:** 

Indication of Danger: Irritant

Risk Statements: Irritating to eyes, respiratory system and skin.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice. Wear suitable protective clothing.

**CA PROPOSITION 65:** This material does not contain any chemicals known to the State of

California to cause cancer or reproductive defects.

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**TSCA INVENTORY STATUS:** Listed

TSCA 12(b) EXPORT NOTIFICATION: This material does not contain 12(b) regulated chemicals.

SARA 311/312 HAZARD CLASS: There are no known hazards associated with this material.

**EINECS IDENTIFICATION:** This material is not listed on EINECS.

**HMIS RATINGS:** Health: <u>2</u> <u>1</u> <u>0</u>

Flammability: Reactivity: Personal Protection: В

#### 16. Other Information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgments of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. While that data contained herein is factual, it should not be taken as warranty or representation for which the company assumes legal responsibility. It is offered solely for your consideration, investigation and verification. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

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