

Designer Molecules, Inc.

Safety Data Sheet

Product: EC-392
MSDS ID: R1148

Revised Date: 01/02/25
Replaces Date: 04/24/23

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 is 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: CO₂, 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 ₂ O=1):	1.086
Vapor Pressure:	Not determined
Vapor Density (Air-1):	Heavier than air.
Solubility in water:	Not determined
Evaporation rate (BuAc=1):	<1
Avg. Molecular Weight:	392.5
Molecular formula:	C ₂₅ H ₂₈ O ₄
Percent volatile (weight):	Not determined
Percent volatile (volume):	Not determined
Volatile organic content:	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
REPRODUCTIVE EFFECTS:	No information found
MUTAGENICITY:	No information found
NEUROTOXICITY:	No information found
ECOTOXICITY:	No data available.
ENVIRONMENTAL:	No data available.
PHYSICAL:	No data available.

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12. Ecological Information

ELIMINATION (persistence 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

BULK 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: 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>
Flammability:	<u>1</u>
Reactivity:	<u>0</u>
Personal Protection:	<u>B</u>

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.