Product: CS-697 MSDS ID: R1362 Revised Date: 01/02/25 Replaces Date: 04/24/23

### 1. General Information

Product Code: Trade Name(s): Product Type: Recommended Use: Restrictions:	R1362 CS-697 Epoxy Modified Siloxane Adhesion promoter None identified
Company:	Designer Molecules, Inc. 10080 Willow Creek Rd.
Telephone:	San Diego, CA 92131 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:**

Harmful by ingestion, Skin sensitizer, Irritant

#### **GHS Classification:**

Acute toxicity, Oral (Category 4) Skin irritation (Category 2) Eye irritation (Category 2A) Skin sensitization (Category 1) Reproductive toxicity (Category 2) Specific target organ toxicity – single exposure (Category 3)

### GHS Label Elements, including precautionary statements:



Signal Word: Warning

H302: Harmful if swallowed.

- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H361: Suspected of damaging fertility or unborn child.

P261:	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280:	Wear protective gloves.
P305 + P351 + P338	: 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
Chronic Health Hazard:	*
Flammability:	1
Physical Hazards:	0

#### **NFPA Rating:**

Health Hazard:	2
Fire:	1
Reactivity Hazard:	0

#### **POTENTIAL HEALTH EFFECTS:**

INHALATION:	May be harmful if inhaled. Causes respiratory tract irritation.
EYE CONTACT:	Causes eye irritation
SKIN CONTACT:	Harmful if absorbed through skin. Causes skin irritation.
SWALLOWING:	Harmful if swallowed.

### 3. Composition Information

COMPONENT	CAS#	CONCENTRATION
Epoxy Modified Siloxane	257284-60-9	> 90%
Toluene	108-88-3	< 0.1%

### 4. First Aid Measures

SWALLOWING:	Do not induce vomiting.	Give person large amounts of wa	ater. 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.

### 5. Fire and Explosion Hazard Data

FLASH POINT (method):> 392°F, (closed cup)EXTINGUISHER METHOD:Water, CO2, foam, dry chemicalSPECIAL 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:

Do not enter fire area without proper protection. See Section 10, Reactivity Data, for decomposition products possible. Fight fire from safe distance and protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Water may be ineffective in firefighting due to low solubility. Use water spray/fog for cooling. Pressure relief system may plug with solids, increasing risk of overpressure.

### 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 protective equipment.

#### ENVIRONMENTAL PRECAUTIONS:

This product is essentially insoluble in water. This material is resistant to rapid biodegradation. May be toxic to aquatic life. Avoid runoff to waterways and sewers.

### 7. Handling and Storage

HANDLING: Avoid contact with eyes.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling.

- **VENTILATION:** General (mechanical) room ventilation is expected to be satisfactory for use at room temperature. Special, local ventilation is recommended at points where vapors generated at high temperatures may be vented to the workplace air.
- **STORAGE:** Store at room temperature away from incompatible materials identified in the *Stability and Reactivity Section.*

# 8. Exposure Controls and Personal Protection Measures

COMPONENT	EXPOSURE LIMITS		
	ACGIH	OSHA	MFG Working
			Standard
Toluene	20 ppm TWA	300 ppm Ceiling 200 ppm TWA	
PERSONAL PROTECTION:			
Respiratory:	whenever workplace co	s or European Standard nditions warrant respirate approved respirator with	EN 149 must be followed or use. If a respirator is organic vapor/dust-mist
Hands:	Solvent impermeable glo	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Eyes:	Chemical safety goggles		
Skin:	Chemical-resistant clothi	ng.	
OTHER PROTECTIVE EQU	PMENT:	-	
	able protective clothing to	facilitate recovery of any	materials spilled.
ENGINEERING CONTROLS	:		
Ventilation:			
Local Exhau			
	Fume hood at point of generation with sufficient exhaust to remove material		nove material
from breat	hing zone.		
EXPOSURE LIMITS:			

#### **EXPOSURE LIMITS:**

None established by OSHA, ACGIH or UCC

### 9. Physical / Chemical Characteristics

#### **APPEARANCE:**

Physical State: Color: Odor: Liquid Clear to very light yellow Musty odor

### **OTHER PROPERTIES:**

Boiling Point:	Not determined
Melting Point:	Not determined
pH:	Not determined
Density (g/CC):	1.09
Vapor Pressure (mmHg):	Not determined
Vapor Density (air=1):	Not determined
Volatile Organic Compounds:	< 1%
Solubility in water:	Not determined
Evaporation rate:	Not determined
Percent volatile (weight):	< 1%
Decomposition Temperature:	Not determined

### 10. Reactivity Hazard Data

STABILITY: CONDITIONS TO AVOID: INCOMPATIBLE MATERIALS:	Stable Elevated temperatures in the presence of initiators Can react with strong oxidizing agents, strong lewis or mineral acid, and strong mineral and organic bases, especially primary and secondary amines.	
HAZARDOUS DECOMPOSITION PRODUCTS:		
	Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product.	
HAZARDOUS POLYMERIZATION:	Will not occur during normal storage and handling.	
11 Toxicological Informa	tion	

### 11. Toxicological Information

ROUTE OF ENTRY:Inhalation; Ingestion; Eye Contact; Skin ContactCARCINOGEN:There is no evidence that this product poses a carcinogenic risk under<br/>normal conditions of handling and use.

### PRODUCT TOXICOLOGY

**PRODUCT INFORMATION:** Low acute toxicity under normal handling and use.

ACUTE EFFECTS OF EXPOSURE: May cause irritation to eyes and respiratory system. High exposure may cause anesthesia and irregular heartbeat due to the heart's increased sensitivity to adrenaline

**CHRONIC EFFECTS OF EXPOSURE:** The toxicological properties of this product have not bee fully evaluated. Use of good industrial hygiene practices is required. Avoid direct contact with skin or eyes. Do not ingest or inhale.

TARGET ORGANS: Eyes, skin

POSSIBLE BIRTH DEFECT HAZARD: Yes

### COMPONENT ORAL TOXICITY

### NOTES ON ORAL TOXICITY

Toluene Oral LD50: Rat 636 mg/kg Ingestion may cause irritation of the gastrointestinal tract. Aspiration of the product into the lungs following ingestion may cause pulmonary injury leading to pneumonitis. May cause nausea, vomiting and diarrhea.

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Toluene

#### COMPONENT DERMAL TOXICITY

NOTES ON DERMAL TOXICITY

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Toluene Dermal LD50: Rabbit 12124 mg/kg Mild irritant to skin. May be absorbed through skin. Repeated or prolonged contact may cause defatting of the skin resulting in dryness, cracking and dermatitus.

### COMPONENT INHALATION TOXICITY

Inhalation LC50 (4hr.)

# NOTES ON INHALATION TOXICITY

Rat 49 g/m<sup>3</sup>, Mouse 400 ppm May cause irregular heartbeat. The vapor has anesthetic properties when inhaled at concentrations above the occupational exposure limit, it may cause respiratory irritation, headache, fatigue, dizziness and incoordination. Avoid breathing vapor or mists.

### 12. Ecological Information

POTENTIAL EFFECT ON ENVIRONMENT: MOBILITY: POTENTIAL TO BIOACCUMULATE: AQUATIC TOXICITY: Do not allow to enter drains, sewers or watercourses. Insoluble Unknown None established

# 13. Disposal Considerations

WASTE DISPOSAL METHOD:

Disposal should be in accordance with local, state of

national legislation.

Empty containers may contain product residue, follow ave been emptied.

EMPTY CONTAINER WARNINGS: Empty containers MSDS and label warnings even after they have been emptied.

# 14. Transport Information

Not a hazardous material for transportation.

### **US DOT REGULATIONS:**

NON-BULKProper Shipping Name: Not regulatedBULKProper 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

CALIFORNIA PROPOSITION 65:	This product contains the following chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm.		
	<b>Component</b> Toluene	CAS Number 108-88-3	
TSCA INVENTORY STATUS:	listing, on the United	is product are listed, c States Environmental P trol Act (TSCA) inventory	Protection Agency
SARA 313 TOXIC CHEMICALS:	<b>Component</b> Toluene	CAS Number 108-88-3	Concentration < 0.5%

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R Phrases:	R 36, 38, 43
S Phrases:	R 36/37/38 Irritating to eyes, respiratory system and skin S 26, 28 (soap and water), 36 wear suitable protective clothing

# **16. Other Information**

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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 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.