

Designer Molecules, Inc.

Safety Data Sheet

Product: CS-783
MSDS ID: R1366

Revised Date: 01/01/19
Replaces Date: 01/29/18

1. General Information

Product Code: R1366
Trade Name(s): CS-783
Product Type: Modified Cyclosiloxane
Recommended Use: Adhesion promoter
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:

Harmful by ingestion, harmful by skin absorption, irritant

Target Organ

Eyes, Skin

GHS Classification:

Skin irritation (Category 2)
Eye irritation (Category 2A)

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.

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.
P270: Do not eat, drink or smoke when using this product.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P280c: Wear protective gloves/protective clothing.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P363: Wash contaminated clothing before reuse.
P280d: Wear protective gloves.
P332+P313: If skin irritation occurs: Get medical advice/attention.

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HMIS Classification:

Health Hazard: 2
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
Cyclosiloxanes, 3-[2-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propenyl]propyl Me, 3-[3-hydroxy-3-[(2-methyl-1-oxo-2-propenyl)oxy]propenyl]propyl Me, Me 3-(oxiranylmethoxy)propyl	921214-21-3	> 99%

4. First Aid Measures

SWALLOWING: Do not induce vomiting. Give person large amounts of water. 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): > 400°F, (closed cup)

EXTINGUISHER METHOD: Water, 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:

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.

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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 5°C away from incompatible materials identified in the *Stability and Reactivity Section*.

8. Exposure Controls and Personal Protection Measures

COMPONENT	EXPOSURE LIMITS		
	<u>ACGIH</u>	<u>OSHA</u>	<u>MFG Working Standard</u>

Contains no substances over 0.1% with occupational exposure limits

RESPIRATORY PROTECTION (SPECIFY TYPE): Respiratory protection is generally not necessary while working with this material. However, if operating conditions create high vapor or mist concentration, use off an approved respirator is recommended.

VENTILATION REQUIREMENTS: Use in a well ventilated area. Local exhaust.

EYE PROTECTION REQUIREMENTS: Wear safety glasses with side shields.

GLOVE REQUIREMENTS: Solvent impermeable gloves.

WASH REQUIREMENTS: Wash before eating, drinking or using toilet facilities.

CLOTHING REQUIREMENTS: Appropriate protective clothing and equipment is recommended to minimize skin contact with this substance

9. Physical / Chemical Characteristics

APPEARANCE:

Physical State:	Liquid
Color:	Light yellow
Odor:	Musty odor

OTHER PROPERTIES:

Boiling Point:	Not determined.
Melting Point:	Not determined.
pH:	Not currently available

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Density (g/CC):	1.11
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:	Stable
CONDITIONS TO AVOID:	Elevated temperatures in the presence of initiators
INCOMPATIBLE MATERIALS:	Incompatible with strong oxidizing, strong reducers, free radical initiators, inert gases, oxygen scavengers.
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 Information

Acute Toxicity:

Oral LD50

No data available

Inhalation LC50

No data available

Dermal LD50

No data available

Other information on acute toxicity

No data available

Skin Corrosion/irritation:

No data available

Serious eye damage/eye irritation:

No data available

Respiratory or skin sensitization:

Prolonged or repeated exposure may cause allergic reactions in certain individuals.

Germ cell mutagenicity:

No data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity:

No data available

Teratogenicity:

No data available

Specific target organ toxicity – single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity – repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard

No data available

Potential health affects:

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	Harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure:

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Synergistic effects:

No data available

Additional Information:

RETCS: Not available

CARCINOGEN STATUS:	CAS # 921214-21-3: not listed by ACGIH, IARC, NTP or CA Prop 65
EPIDEMIOLOGY:	No information found
TERATOGENICITY:	No information found
REPRODUCTIVE EFFECTS:	No information found
MUTAGENICITY:	No information found
NEUROTOXICITY:	No information found

12. Ecological Information

POTENTIAL EFFECT ON ENVIRONMENT:	Unknown
MOBILITY:	Insoluble
POTENTIAL TO BIOACCUMULATE:	Unknown
AQUATIC TOXICITY:	None established

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13. Disposal Considerations

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

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.

Component	CAS Number	Concentration (wt. %)
None		

TSCA INVENTORY STATUS: Listed

Component	CAS Number	Concentration (wt. %)
None		

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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.