Product: MM-290 MSDS ID: R1134 Revised Date: 04/11/22 Replaces Date: 01/01/19

# 1. General Information

Product Code: Trade Name(s): Product Type: Recommended Use: Restrictions:	R1134 MM-290 Acrylate Ester Reactive diluent 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:** Respiratory sensitizer, Irritant

### **GHS Classification:**

Respiratory sensitizer (Category 1) Skin irritation (Category 2) Eye irritation (Category 2A) Skin sensitization (Category 1) Specific target organ toxicity – single exposure (Category 3)

### GHS Label Elements, including precautionary statements:



#### Signal Word: Danger

H315: Causes skin irritation.

- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335: May cause respiratory irritation.

P285:	In case of inadequate ventilation wear respiratory protection.
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.
P302 + P352	IF ON SKIN: Wash with soap and water.

Product: MM-290 MSDS ID: R1134

#### HMIS Classification:

Health Hazard:	2
Flammability:	1
Physical Hazards:	2

#### POTENTIAL HEALTH EFFECTS:

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

## 3. Composition Information

COMPONENT	CAS#	CONCENTRATION
Isobornylcyclohexylacrylate	903876-45-9	> 95%

## 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):** > 300°F, (closed cup)

**EXTINGUISHER METHOD:** Water, 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:

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.

Product: MM-290 **MSDS ID: R1134** 

#### **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.

#### Handling and Storage 7.

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.
- Store at 5°C away from incompatible materials identified in the Stability and Reactivity STORAGE: Section.

#### 8. Exposure Controls and Personal Protection Measures

#### **EXPOSURE LIMITS:**

None established by OSHA, ACGIH or UCC

#### **PERSONAL PROTECTION:**

- Respiratory: 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. If a respirator is used, a NIOSH/MSHA approved respirator with organic vapor/dust-mist fume filters represents the minimum level of respiratory protection. Solvent impermeable gloves. Hands:
- Chemical safety goggles. Eves:
- Chemical-resistant clothing. Skin:

### **OTHER PROTECTIVE EQUIPMENT:**

Wear disposable protective clothing to facilitate recovery of any materials spilled.

#### **ENGINEERING CONTROLS:**

Ventilation:

Local Exhaust:

Fume hood at point of generation with sufficient exhaust to remove material from breathing zone.

# 9. Physical / Chemical Characteristics

#### **APPEARANCE:**

Physical State: Liquid Color: Odor:

Amber/Tan Bitter odor

#### **OTHER PROPERTIES:**

**Boiling Point:** Melting Point: pH: Density (g/CC): Vapor Pressure (mmHg): Vapor Density (air=1): Volatile Organic Compounds: Not determined. Not determined. Not currently available 0.98 Not determined Not determined  $\approx 0\%$ 

Product: MM-290 **MSDS ID: R1134** 

Solubility in water: Not determined Evaporation rate: Not determined Percent volatile (weight): ≈ 0% Not determined Decomposition Temperature:

# 10. Reactivity Hazard Data

STABILITY: CONDITIONS TO AVOID: INCOMPATIBLE MATERIALS:	Stable Elevated temperatures in the presence of initiators 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.	

#### **Toxicological Information** 11.

Toxicological testing has not been performed on this product.

CARCINOGEN STATUS:	CAS # 903876-45-9: not listed by ACGIH, IARC, NTP or CA Prop 65
EPIDEMIOLOGY:	No information found
TERATOGENICITY:	No information found
<b>REPRODUCTIVE EFFECTS:</b>	No information found
MUTAGENICITY:	No information found
NEUROTOXICITY:	No information found

## 12. Ecological Information

POTENTIAL EFFECT ON ENVIRONMENT: **MOBILITY:** POTENTIAL TO BIOACCUMULATE: **AQUATIC TOXICITY:** 

Unknown Insoluble Unknown None established

#### **Disposal Considerations** 13.

### WASTE DISPOSAL METHOD:

Disposal should be in accordance with local, state of

national legislation.

Empty containers may contain product residue, follow

# **EMPTY CONTAINER WARNINGS:**

MSDS and label warnings even after they have been emptied.

#### 14. Transport Information

Not a hazardous material for transportation.

### **US DOT REGULATIONS:**

Proper Shipping Name: Not regulated NON-BULK 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.	
	<b>Component</b> None	CAS Number
SARA 313 TOXIC CHEMICALS:	<b>Component</b> None	CAS Number
TSCA INVENTORY STATUS:	All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency	

EPA will issue a Significant New Use Rule (SNUR) for this substance under TSCA section 5(a)(2). Applicable to this material will be the restrictions stated in 40 CFR 721.85 (a)(1), (b)(1) and (c)(1) and 40 CFR 721.90 (a)(1), (b)(1) and (c)(1).

The SNUR will require submission of a Significant New Use Notification (SNUN) to EPA 90 days before any predictable or purposeful release containing the product into surface water or any disposal of the manufacturing, process or use stream of the product other than by incineration (including cleaning releases and transport containers). Corresponding recordkeeping at 40 CFR 721.125(a), (b), (c), (j) and (k) will also be required. Contact Designer Molecules, Inc. representatives for further information.

#### R Phrases:

S Phrases:

R 36, 38, 43 R 36/37/38 Irritating to eyes, respiratory system and skin S 26, 28 (soap and water), 36

Toxic Substances Control Acts (TSCA) inventory.

# **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. 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.