Product: A-675-100% Revised Date: 09/01/22 MSDS ID: R1251 Replaces Date: 01/01/19

### 1. General Information

Product Code: R1251
Trade Name(s): A-675-100%
Product Type: PMGDM – 100%
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: Irritant

**GHS Classification** Skin Irritation (Category 2)

Eye Irritation (Category 2a)

Specific target organ toxicity - single exposure (Category 3)

#### **GHS Label Elements, including precautionary statements**



Pictogram

Signal word WARNING

Hazard statement(s)

H315 Causes skin irritation
H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary statement(s)

P261 Avoid breathing dust/mist/vapors/spray

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

**HMIS Classification** 

 $\begin{array}{lll} \mbox{Health} & = & 1 \\ \mbox{Flammability} & = & 1 \\ \mbox{Physical} & = & 0 \\ \end{array}$ 

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NFPA Classification

**POTENTIAL HEALTH EFFECTS:** 

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

**Eyes:** Causes eye irritation.

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

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

### 3. Composition Information

COMPONENT	CAS#	CONCENTRATION
Pyromellitic dianhydride glycerol dimethacrylate adduct Glycerol Dimethacrylate	148019-46-9 1830-78-0	> 90% < 2%

### 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):** > 84°C (183°F), (closed cup) **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:**

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:

Wear personal protective equipment (clothing and gloves) when handling spilled materials. Promptly absorb spill. Remove sources of ignition.

#### PERSONAL PRECAUTIONS:

Wear suitable protective equipment.

#### **ENVIRONMENTAL PRECAUTIONS:**

Cover drains to prevent entry into waterways.

## 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

ACGIH OSHA MFG Working Standard

Modified methacrylate resin not established not established not established

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.

Hands: Solvent impermeable gloves. Eyes: Chemical safety goggles. Skin: Chemical-resistant clothing.

#### 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.

#### **EXPOSURE LIMITS:**

None established by OSHA, ACGIH or UCC

## 9. Physical / Chemical Characteristics

**APPEARANCE:** 

Physical State: Viscous liquid

Color: Colorless to light green
Odor: No detectable odor

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**OTHER PROPERTIES:** 

Boiling Point: Not determined Melting Point: Not determined pH: Not determined Density (g/CC): Not determined Vapor Pressure (mmHq): Not determined Vapor Density (air=1): Not determined Solubility in water: Not determined Evaporation rate: Not determined Percent volatile (weight): Not determined

## 10. Reactivity Hazard Data

**STABILITY:** Stable under recommended storage conditions **CONDITIONS TO AVOID:** Elevated temperatures in the presence of initiators

INCOMPATIBLE MATERIALS: Can react with strong oxidizing agents, strong Lewis or mineral

acid, free radical initiators, inert gasses, oxygen scavengers 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: May occur.

## 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 OF SKIN SENSTIZATION:** No data available

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 probable, possible or confirmed human carcinogen by ACGIH.

NTP: 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 NTP.

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OSHA: 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 OSHA.

REPRODUCTIVE TOXICITY: No data available

TERATOGENICITY: No data available

SPECIFIC TARGET ORGAN TOXICITY - Single Exposure (Globally Harmonized System)

Inhalation – May cause respiratory irritation.

SPECIFIC TARGET ORGAN TOXICITY - Repeated Exposure (Globally Harmonized System)

No data available.

**ASPIRATION HAZARD** 

No data available.

**POTENTIAL HEALTH EFFECTS:** 

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

**SIGNS AND SYMPTOMS OF EXPOSURE:** 

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

**SYNERGISTIC EFFECTS:** 

No data available.

**ADDITIONAL INFORMATION:** 

**RETCS: Not available** 

## 12. Ecological Information

TOXICITY:
PERSISTANCE AND DEGRADABILITY:
BIOACCUMULATIVE POTENTIAL:
MOBILITY IN SOIL:
PBT AND vPvB ASSESSMENT:
OTHER ADVERSE EFFECTS:
No data available.

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.

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## 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

None

TSCA INVENTORY STATUS: Listed.

SARA 313 TOXIC CHEMICALS: Component CAS Number Concentration

None

R Phrases: R 21/22 Harmful in contact w/ skin and if swallowed

R 36/37/38 Irritating to eyes, respiratory system and skin

S Phrases: S 26, 28 (soap and water), 36 wear suitable protective clothing

#### 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.

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