Designer Molecules, Inc. Safety Data Sheet

Product: A-675-100% MSDS ID: R1251 Revised Date: 04/24/23 Replaces Date: 09/01/22

1. General Information

Product Code: Trade Name(s): Product Type: Recommended Use: Restrictions:	R1251 A-675-100% PMGDM – 100% 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:	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 H319 H335	Causes skin irritation Causes serious eye irritation May cause respiratory irritation
	Precautionary stateme P261 P305+P351+P338	nt(s) Avoid breathing dust/mist/vapors/spray IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
HMIS	Classification Health Flammability Physical	= 1 = 1 = 0

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NFPA Classification

Health	= 1	
Fire	= 1	
Reactivity	= 0	
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: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:

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	EXPC	SURE LIMITS	
	ACGIH	<u>OSHA</u>	MFG Working
			<u>Standard</u>
Modified methacrylate resin	not established	not established	not established
PERSONAL PROTECTION:			
Respiratory:			SHA's 29 CFR 1910.134 and
			ard EN 149 must be followed
			pirator use. If a respirator is
		•••••••	with organic vapor/dust-mist
	fume filters represents the		espiratory protection.
Hands:	Solvent impermeable gl		
Eyes:	Chemical safety goggles		
Skin:	Chemical-resistant cloth	ing.	
OTHER PROTECTIVE EQUIPMENT:			
Wear disposable protective clothing to facilitate recovery of any materials spilled.			
ENGINEERING CONTROLS	:		
Ventilation:			
Local Exhaus			
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: Color: Odor: Viscous liquid Colorless to light green No detectable odor Product: A-675-100% MSDS ID: R1251

OTHER PROPERTIES:

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

10. Reactivity Hazard Data

STABILITY: CONDITIONS TO AVOID: INCOMPATIBLE MATERIALS: HAZARDOUS DECOMPOSITION PRO	Stable under recommended storage conditions Elevated temperatures in the presence of initiators 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 POLYMERIZATION:	Acrid smoke-fumes/carbon monoxide/carbon dioxide and perhaps other toxic vapors may be released during a fire involving this product. 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.

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
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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. 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 MSDS and label warnings even after they have been emptied.

EMPTY CONTAINER WARNINGS:

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 None	CAS Number	
TSCA INVENTORY STATUS:	Listed.		
SARA 313 TOXIC CHEMICALS:	Component None	CAS Number	Concentration
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.