Product: U-835 MSDS ID: R1102 Revised Date: 04/24/23 Replaces Date: 09/01/22

## 1. General Information

Product Code: Trade Name(s): Product Type: Recommended Use: Restrictions:	R1102 U-835 Acrylate/methacrylate functionalized urethane resin Thermoset resin None identified
Company:	Designer Molecules, Inc. 10080 Willow Creek Rd.
	San Diego, CA 92131
Telephone:	858-348-1122
Emergency phone num	ber (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

#### **GHS Classification:**

Acute toxicity, Oral (Category 4) Acute toxicity, Dermal (Category 4) Skin irritation (Category 2) Eye irritation (Category 2A) Specific target organ toxicity-single exposure (Category 3)

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



Signal Word: Warning

H302 + H312: Harmful if swallowed or in contact with skin.H315:Causes skin irritation.H319:Causes serious eye irritation.H335:May cause respiratory irritation.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P280: Wear protective gloves/protective clothing.

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
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 irritationSKIN CONTACT:Harmful if absorbed through skin. Causes skin irritation.SWALLOWING:Harmful if swallowed.

# 3. Composition Information

COMPONENT	CAS#	CONCENTRATION
Modified urethane resin	mixture	~ 100%

## 4. First Aid Measures

SWALLOWING:	Do not induce vomiting. Give person large amounts of water. Get immediate medical attention.	
SKIN CONTACT:		
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		

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, 204°C, (closed cup)EXTINGUISHER METHOD:Water spray, 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 5°C away from incompatible materials identified in the *Stability and Reactivity Section.*

# 8. Exposure Controls and Personal Protection Measures

COMPONENT	EX	EXPOSURE LIMITS		
	<u>ACGIH</u>	<u>OSHA</u>	MFG Working	
			Standard	
Modified urethane 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:
Color:
Odor:

Liquid Light yellow Musty odor

### **OTHER PROPERTIES:**

Boiling Point:	Not determined
Melting Point:	Not determined
pH:	Not determined
Density (g/CC):	0.99
Vapor Pressure (mmHg):	Not determined
Vapor Density (air=1):	Not determined
Volatile Organic Compounds:	< 0.1 %
Solubility in water:	Not determined
Evaporation rate:	Not determined
Percent volatile (weight):	< 0.1 %
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, free radical initiators, inert gasses, oxygen scavengers and strong mineral and organic bases, especially primary and secondary amines.
HAZARDOUS DECOMPOSITION PRO	
	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**

#### SWALLOWING:

Acute effects:	May cause nausea, abdominal pain, vomiting, headache, dizziness, shortness of				
	breath, weakness, leg cramps, restlessness, confusion, visual disturbances,				
	drowsiness, coma, and death. There may be a delay of up to forty-eight hours				
	before the onset of symptoms.				
Tast results.	Acute Toxicity: Toxicological testing has not been performed with this material				

**Test results:** <u>Acute Toxicity</u>: Toxicological testing has not been performed with this material. <u>Chronic Toxicity</u>: Toxicological testing has not been performed with this material.

#### SKIN ABSORPTION:

 Acute effects:
 No evidence of harmful effects.

 Test results:
 Acute Toxicity: Toxicological testing has not been performed with this material.

 Chronic Toxicity: Toxicological testing has not been performed with this material.

#### INHALATION:

Produ MSDS	ict: U-835 S ID: R1102			Revised Date: 04/24/23 Replaces Date: 09/01/22	
	Acute effects: Test results:	Short-term harmful health effects are not expected from vapor generated at ambient temperature. <u>Acute Toxicity</u> : Toxicological testing has not been performed with this material. <u>Chronic Toxicity</u> : Toxicological testing has not been performed with this material.			
SKIN	CONTACT:				
	Acute effects:	Causes moderate irritation. Causes local discomfort, redness, possibly slight swelling, and scaling. The effects of repeated exposure may cause sensitization			
	Test results:		on. ogical testing has not been perfo ological testing has not been pe		
EYE (	CONTACT:				
	Acute effects:	May cause irritation. Causes discomfort, pain, excessive blinking, tear production and, marked excessive redness and swelling of the conjunctivae. Corneal injury may occur. Corneal injury may be severe, extensive and, if not treated promptly,			
	Test results:	could result in permanent impairment. <u>Acute Toxicity</u> : Toxicological testing has not been performed with this material. <u>Chronic Toxicity</u> : Toxicological testing has not been performed with this material.			
SENS	SITIZATION:				
	Test results:	S: <u>Acute Toxicity</u> : Toxicological testing has not been performed with this material <u>Chronic Toxicity</u> : Toxicological testing has not been performed with this material			
мита	AGENICITY:				
	Genetic toxicity         (in vitro):       Acute Toxicity: Toxicological testing has not been performed with this material. Chronic Toxicity: Toxicological testing has not been performed with this material.				
12.	Ecological	Information			
POTENTIAL EFFECT ON ENVIRONMENT: MOBILITY:Do not allow to enter drains, sewers or watercourses. InsolublePOTENTIAL TO BIOACCUMULATE: AQUATIC TOXICITY:Unknown None established			ewers or watercourses.		
13.	Disposal C	onsiderations			
	TE DISPOSAL MI ational legislation.	ETHOD:	Disposal should be in accord	dance with local, state of	
ЕМОТ			Empty containors may contain	product residue follow	

## 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.		
	<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 Toxic Substances Control Act (TSCA) inventory.		
SARA 313 TOXIC CHEMICALS:	<b>Component</b> None	CAS Number	Concentration
R Phrases:	R 21/22 Harmful in contact w/ skin and if swallowed		
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

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.