Product:
 PEAM-1044
 Revised Date: 04/24/23

 MSDS ID:
 R1111
 Replaces Date: 04/11/22

# 1. General Information

Product Code: PEAM-1044 Trade Name(s): R1111

Product Type: Difunctional (Meth)Acrylate Oligomer

Recommended Use: Thermoset resin 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.

#### Other hazards which do not result in classification:

Possible sensitizer.

#### **GHS Classification:**

Acute toxicity, Oral (Category 4)
Acute toxicity, Dermal (Category 4)
Skin Irritation (Category 2)

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



Signal Word: Warning

H315: Causes skin irritation.H319 Causes serious eye irritationH335 May cause respiratory irritation

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

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

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

present and easy to do. Continue rinsing.

P304+P340: IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for

breathing.

P362 Take off contaminated clothing before reuse.

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P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

P332+P313: If skin irritation occurs: Get medical advice/attention.

#### **HMIS Classification:**

Health Hazard: 1
Flammability: 1
Physical Hazards: 1

**NFPA Rating:** 

Health Hazard: 1
Fire: 1
Reactivity Hazard: 1

#### **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

**Synonyms:** PEAM-1044

Polyester Acrylate Methacrylate Oligomer

COMPONENT CAS# CONCENTRATION

Fatty acids, C18-unsatd., dimers, hydrogenated, polymers with acrylic acid, methacrylic acid and tricyclodecanedimethanol 921214-61-1 100%

## 4. First Aid Measures

#### **GENERAL ADVICE:**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If swallowed:

Do not induce vomiting. Give person large amounts of water. Get immediate medical attention.

### In case of skin contact:

Wash area with soap and water. Consult a physician.

#### lf inhaled:

Remove person to fresh air. If breathing has stopped, perform artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

# In case of eye contact:

Flush with water for 15 minutes as a precaution.

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# Fire and Explosion Hazard Data

### Conditions of flammability:

Will burn.

## Suitable extinguishing media:

Use water spray, alcohol-resistant form, dry chemical of carbon dioxide.

### Special protective equipment for firefighters:

Wear self contained breathing apparatus fro fire fighting if necessary.

# **Hazardous combustion products:**

Hazardous combustion products formed under fire conditions. Nature of decomposition products not known.

# 6. Accidental Release Measures

#### **Personal Precautions:**

Wear personal protective equipment. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation.

# **Environmental precautions:**

Do not let product enter drains.

#### Methods and materials for containment and cleaning up:

Pick-up and arrange for disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

# 7. Handling and Storage

## Precautions for safe handling:

Avoid contact with skin eyes. Avoid formation of dust and aerosols. Keep container closed. Provide appropriate exhaust ventilation at places where dust is formed.

## Conditions for safe storage:

Store at +5°C or colder away from light and incompatible materials identified in the *Stability and Reactivity Section*.

# 8. Exposure Controls and Personal Protection Measures

Contains no substances with occupational exposure limit values

## Personal protective equipment:

#### Respiratory protection:

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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#### Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good manufacturing practices. Wash and dry hands.

### Eye protection:

Safety glasses with side shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

# Skin and body protection:

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# 9. Physical / Chemical Characteristics

### Appearance:

Physical State: Viscous Liquid
Color: Dark amber to brown
Odor: None to slight
Odor threshold: no data available

## Other properties:

pH: no data available
Melting Point: no data available
Boiling Point: no data available

Flash Point: > 204°C (> 400°F) closed cup

Ignition temperature no data available
Autoignition temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Vapor Pressure: no data available

Specific Gravity (H<sub>2</sub>O=1): 1.02 g/cc Solubility in water: Insoluble

n-Octanol/water partition no data available

coefficient:

Evaporation rate (BuAc=1): < 1

Avg. Molecular Weight: no data available

Percent volatile (weight): <0.1%

# 10. Reactivity Hazard Data

#### Chemical stability:

Stable under recommended storage conditions.

# Conditions to avoid:

Elevated temperatures in the presence of initiators and loss or inhibitors.

#### Materials to avoid:

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.

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## Possibility of hazardous reactions:

May generate significant heat if cured in bulk.

# 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:

Causes skin irritation.

#### Serious eye damage/eye irritation:

Causes serious eye irritation.

#### Respiratory or skin sensitization:

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

## Germ cell mutagenicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) does not contain mutation data for components in this material.

#### 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.

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:

The Registry of Toxic Effects of Chemical Substances (RTECS) does not contain reproductive data for components in this material.

# **Teratogenicity:**

No data available

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

May cause respiratory irritation.

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

No effects known.

# **Aspiration hazard**

No effects known.

#### 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

# 12. Ecological Information

# **Toxicity:**

No data available

## Persistence and degradability:

No data available

## **Bioaccumulation potential:**

No data available

# Mobility in soil:

No data available

#### PBT and vPvP assessment:

No data available

#### Other adverse effects:

No data available

# 13. Disposal Considerations

#### Product:

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal srervice to dispose of this material.

# Contaminated packaging:

Dispose of as unused product.

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# 14. Transport Information

DOT (US):

Not dangerous goods

IMDG:

Not dangerous goods

IATA:

Not dangerous goods

# 15. Regulatory Information

#### **TSCA Status:**

Listed

#### **OSHA Hazards:**

Harmful by ingestion. Harmful by skin absorption. Irritant.

# **SARA 302 Components:**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards:

Acute health hazard

## **CALIFORNIA PROPOSITION 65:**

This product does not contain any chemicals that are known to the State of California to cause cancer, birth defects or other reproductive harm.

# 16. Other Information

The opinions expressed herein are those of qualified experts within Designer Molecules Inc. We believe that the information contained herein is current, as of the date of this Safety Data Sheet. Because the use of this information and of these opinions, and the conditions of use of this product, are not within the control of Designer Molecules Inc., it is the user's legal obligation to determine the conditions of safe use of this product.

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