

Designer Molecules, Inc.

Safety Data Sheet

Product: A-6225
MSDS ID: A6225

Revised Date: 12/08/23
Replaces Date: 04/24/23

1. General Information

Product Code: A6225
Trade Name(s): A-6225
Product Type: Modified Siloxane
Recommended Use: Antibleed Additive
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:

GHS Classification:

Skin irritation (Category 3)
Eye irritation (Category 2B)
Acute toxicity, inhalation (Category 5)

GHS Label Elements, including precautionary statements:



Warning

H320: Causes eye irritation.
H316: May causes mild skin irritation.
H333: May be harmful if inhaled.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.
P337+P313: If eye irritation persists: Get medical advice/attention.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362: Take off contaminated clothing and wash before reuse.

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POTENTIAL HEALTH EFFECTS: EFFECTS OF SINGLE ACUTE OVEREXPOSURE:

- INHALATION:** Short-term harmful health effects are not expected from vapor generated at ambient temperature. Vapors and/or aerosols that may be formed at elevated temperatures may be irritating to eyes and respiratory tract. Avoid breathing vapors or mists.
- EYE CONTACT:** May cause eye irritation. Contact with eyes causes redness and discomfort that is transient.
- SKIN CONTACT:** Brief contact may cause slight irritation with itching and local redness. Repeated and/or prolonged contact may cause skin sensitization.
- SKIN ABSORPTION:** No evidence of harmful effects from available information.
- SWALLOWING:** Ingestion may cause abdominal discomfort, nausea, vomiting, and diarrhea.

3. Composition Information

Synonyms: A6225
Modified siloxane

| COMPONENT | CAS# | CONCENTRATION |
|--|--------------|---------------|
| Siloxanes and Silicones, di-Me, Bu group- and 3-[2-(3-mercapto-1-oxopropoxy)ethoxy]propyl group-terminated | 2247074-15-1 | > 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): > 153°C (307°F), (closed cup)

EXTINGUISHER METHOD: CO₂, 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:

Promptly absorb spill. Remove sources of ignition. 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 room temperature away from incompatible materials identified in the *Stability and Reactivity 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.

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.

9. Physical / Chemical Characteristics

APPEARANCE:

| | |
|-----------------|---------------------------------|
| Physical State: | Liquid, low viscosity |
| Color: | Colorless |
| Odor: | Slight rotten egg (thiol) smell |

OTHER PROPERTIES:

| | |
|-----------------|----------------|
| Boiling Point: | Not determined |
| Melting Point: | Not determined |
| pH: | Not determined |
| Density (g/CC): | 0.98 g/cc |

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|-----------------------------|----------------|
| Vapor Pressure (mmHg): | Not determined |
| Vapor Density (air=1): | Not determined |
| Volatile Organic Compounds: | ≈ 0% |
| Solubility in water: | Not determined |
| Evaporation rate: | Not determined |
| Percent volatile (weight): | ≈ 1% |
| Decomposition Temperature: | Not determined |

10. Reactivity Hazard Data

| | |
|--|--|
| STABILITY: | Stable |
| CONDITIONS TO AVOID: | Elevated temperatures |
| INCOMPATIBLE MATERIALS: | Incompatible with strong oxidizing, strong reducers. |
| HAZARDOUS DECOMPOSITION PRODUCTS: | Acrid smoke-fumes, organic acid vapors, silicon dioxide, 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. |

11. Toxicological Information

Toxicological testing has not been performed on this product.

| | |
|------------------------------|--|
| CARCINOGEN STATUS: | Not listed by ACGIH, IARC, NTP or CA Prop 65 |
| EPIDEMIOLOGY: | No information found |
| TERATOGENICITY: | No information found |
| REPRODUCTIVE EFFECTS: | No information found |
| MUTAGENICITY: | No information found |
| NEUROTOXICITY: | No information found |

12. Ecological Information

| | |
|---|------------------|
| POTENTIAL EFFECT ON ENVIRONMENT: | Unknown |
| MOBILITY: | Insoluble |
| POTENTIAL TO BIOACCUMULATE: | Unknown |
| AQUATIC TOXICITY: | None established |

13. Disposal Considerations

| | |
|----------------------------------|---|
| WASTE DISPOSAL METHOD: | Disposal should be in accordance with local, state or national legislation. |
| 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 |

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IMDG:

Not dangerous goods

IATA:

Not dangerous goods

15. Regulatory Information

TSCA Status:

Not listed nor exempted from listing. This material is for R&D use by trained individuals.

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 MSDS. 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.