SAFETY DATA SHEET

1. IDENTIFICATION
   1.1. Product Name
   1.2. Catalog Number
   1.3. Uses and restrictions
   1.4. Manufacturer/Supplier
   1.5. In Case of Emergency

2. HAZARDS IDENTIFICATION
   2.1. Classification
   2.2. Signal Word
   2.3. Symbol
   2.4. Hazard Statement(s)
   2.5. Precautionary Statement(s)
   2.6. Hazards not otherwise classified (HNOC) or not covered by GHS

3. COMPOSITION/INFORMATION ON INGREDIENTS
   3.1. Chemical Name
   3.2. Synonyms

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3. Chemical Formula
C₂₂H₃₄O₇
C₂₂H₃₄O₇

3.4. Molecular Weight
410.50 g/mol

3.5. CAS Number
66575-29-9

4. FIRST AID MEASURES

4.1. First Aid Instructions

- General Advice
  Move out of exposure area. Consult a physician.

- Eyes
  Check for and remove contact lenses immediately and flush thoroughly with water for at least 15 minutes. Call a physician.

- Skin
  Immediately flush skin with copious amounts of water. Remove contaminated clothing and shoes and wash before use. Contact a physician.

- Ingestion
  If swallowed, wash mouth out with water provided person is conscious. Do not induce vomiting. Loosen tight clothing. Contact a physician.

- Inhalation
  If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician.

- Puncture Wounds
  Wash thoroughly with soap and water. Allow wound to bleed freely. Contact a physician.

4.2. Most Important Symptoms/effects, acute and immediate
Described in section 2.

4.3. Indications of immediate medical attention and special treatment needed
No data available.

5. FIRE FIGHTING MEASURES

5.1. Suitable extinguishing media.
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Specific hazards arising from the chemical
Carbon oxides

5.3. Special protective equipment and precautions for fire-fighters
Wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment, and emergency procedures
Use personal protective equipment (see section 8). Avoid direct contact with skin or eyes and prevent inhalation of dust. Ensure adequate ventilation.

6.2. Environmental Precautions
Do not let product enter drains.

6.3. Methods and materials for containment and clean up
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
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7. HANDLING AND STORAGE

7.1 Precautions for safe handling
- Avoid inhalation, contact with eyes, skin, and clothing.
- Avoid prolonged or repeated exposure.
- Provide appropriate exhaust ventilation at places where dust is formed.
- For other precautions see section 2.5.

7.2 Conditions for safe storage, including any incompatibilities
Keep tightly closed. Store at 4°C protected from light. Following reconstitution, store aliquots at -20°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
No known occupational exposure limits values.

8.2 Appropriate engineering controls
Safety shower and eye bath. Mechanical exhaust required.

8.3 Protection measures and Personal Protective Equipment
Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling.

- Respiratory Protection
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) particle respirator. For higher protection use type OV/AG/P99 (US) or type ABEK-P2 (EN 143) respirator cartridges.

- Eye Protection
Chemical safety goggles.

- Skin Protection
Protective gloves and lab coat. Use nitrile rubber gloves with a minimum thickness of 0.11 mm.

9. PHYSICAL/CHEMICAL PROPERTIES

9.1 Appearance
White crystalline powder

9.2 Odor
No data available.

9.3 Odor Threshold
No data available.

9.4 pH
No data available.

9.5 Melting point/freezing point
223-227°C (433-441°F)

9.6 Initial boiling point and boiling range
No data available.

9.7 Flash point
No data available.

9.8 Evaporation rate
No data available.

9.9 Flammability (solid, gas);
No data available.

9.10 Upper/lower flammability or explosive limits
No data available.

9.11 Vapor pressure
No data available.

9.12 Vapor density
No data available.

9.13 Relative density
No data available.
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9.14. Solubility(ies) 100 mM in Dimethylsulfoxide
9.15. Partition coefficient: n-octanol/water No data available.
9.17. Decomposition temperature No data available.
9.18. Viscosity No data available.

10. STABILITY/REACTIVITY
10.1. Reactivity No data available.
10.2. Chemical Stability This product is stable under recommended storage conditions.
10.3. Possibility of hazardous reactions No data available.
10.4. Conditions to Avoid No data available.
10.5. Incompatible materials Strong oxidizing agents.
10.6. Hazardous decomposition products No data available.

11. TOXICOLOGICAL INFORMATION
11.1. Toxicological effects No data available.
   • Acute toxicity
     • LD50 Oral – Rat – 2,550 mg/kg
     • Inhalation: No data available
     • Dermal: No data available
   • Skin corrosion/irritation No data available.
   • Serious eye damage/eye irritation No data available.
   • Respiratory or skin sensitization No data available.
   • Germ cell mutagenicity No data available.
   • Carcinogenicity
     • IARC: No components of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen.
     • ACGIH: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
     • NTP: No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen.
     • OSHA: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen.
   • Reproductive Toxicity No data available.
   • Specific target organ toxicity - single exposure No data available.
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- Specific target organ toxicity - repeated exposure: May cause damage to organs through prolonged or repeated exposure.
- Aspiration hazard: No data available.

11.2. Symptoms related to the physical, chemical and toxicological characteristics:

11.3. Effects of Short-Term Exposure: No data available.
11.4. Effects of Long-Term Exposure: No data available.
11.5. Numerical measures of toxicity: No data available.
11.6. Other Information: None.

12. ECOLOGICAL INFORMATION

12.1. Toxicity: No data available.
12.2. Persistence and degradability: No data available.
12.3. Bioaccumulative potential: No data available.
12.4. Mobility in soil: No data available.
12.5. Results of PBT and vPvB assessment: None.
12.6. Other adverse effects: None.

13. DISPOSAL CONSIDERATIONS

13.1. Disposal Method: Waste must be disposed of in accordance with federal, state, and local environmental control regulations.
13.2. Personal safety: Refer to section 8.

14. TRANSPORT INFORMATION

This product is considered non-hazardous for transport.

15. REGULATORY INFORMATION

U.S. Federal Regulations

- SARA 313 components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.
- SARA 302 components: Does not contain any components subject to reporting.
- SARA 311/312 Hazards: Acute Health Hazard, Chronic health hazard.
- Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see CFR 61): Does not contain any components subject to reporting.
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U.S. State Regulations

- California Proposition 65
  Does not contain any components subject to reporting.
- Massachusetts Right To Know Components
  Does not contain any components subject to reporting.
- Pennsylvania Right To Know Components
  Does not contain any components subject to reporting.
- New Jersey Right To Know Components
  Does not contain any components subject to reporting.

WHMIS Hazard Class

Not controlled under WHMIS (Canada).

16. OTHER INFORMATION

Notice

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Stemgent, Inc. shall not be held liable for any damage resulting from handling or from contact with the product. See Stemgent, Inc. website for terms and conditions of sale.

Preparation Date

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Prepared by

Quality Control

END OF SAFETY DATA SHEET