



Safety Data Sheet

MANUFACTURER

CellMosaic, Inc.
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General Information

Trade Name: Biotin-Alprenolol Conjugate
Part No. Covered by this SDS: CM61002-1MG, CM61002-5MG CM61002-10MG.

Product Content

- 1) One 1.5 mL centrifuge tube containing purified and lyophilized 1 mg, or 5 mg, or 10 mg of Biotin-Alprenolol Conjugate.

Handling and Storage for Hazardous Chemicals

Handling Biotin-Alprenolol Conjugate: See Attached Supplement.

Transportation

DOT (US): Not dangerous goods.

IATA: Not dangerous goods.

IMDG: Not dangerous goods.

Supplemental information starts from next page.



Biotin-Alprenolol Conjugate

SECTION 1. Identification of the substance/mixtures and of the company/undertaking

1.1. Product identifiers

Product Name: Biotin-Alprenolol Conjugate

Product No.: CM61002

1.2. Detail of the supplier of the safety data sheet

Company: CellMosaic, Inc. 10A Roessler Road, Woburn, MA 01801, Phone: +1 781-463-0002

SECTION 2. Hazards Identification

2.1. Classification of the substance or mixture



GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302

2.2. GHS Label elements, including precautionary statements.

Signal Word: WARNING!

Hazard Statement(s):

H302 - Harmful if swallowed.

Precautionary Statement(s):

P264 - Wash skin thoroughly after handling.

P270 - Do not eat, drink, or smoke when using this product.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P330 - Rinse mouth.

P501 - Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS - None.

SECTION 3. Composition and Information on Ingredients

Substance Name: Biotin-Alprenolol Conjugate

Description: 1.5 mL centrifuge tube containing purified and lyophilized 1 mg, or 5 mg, or 10 mg of Biotin-Alprenolol Conjugate.

SECTION 4. First Aid Measures

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

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Skin Contact: Wash off with soap and plenty of water. Consult a physician.

Eye Contact: Flush eyes with water as a precaution.

SECTION 5. Fire Fighting Measures

5.1 Flammability

Products of Combustion: May decompose into irritating gases under fire conditions (nitrogen oxides, carbon monoxide, carbon dioxide, sulfur oxides).



Specific Fire Hazards: As in any fire, always wear self-contained breathing apparatus in pressure-demand (MSA/NIOSH approved or equivalent), and full protective gear. Use water spray to keep fire exposed containers cool. Approach fire from upwind to avoid hazardous vapors and toxic decomposition products.

Specific Explosion Hazards: No information available

Fire Fighting Media: Use water spray, or appropriate foam.

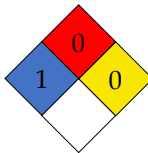
5.2 NFPA

Health Rating: 1

Flammability Rating: 0

Reactivity: 0

Specific Hazard: N/A



SECTION 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections: For disposal see section 13.

SECTION 7. Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 3.2.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place, preferably at -20 °C for stability.

SECTION 8. Exposure Controls/Personal Protection

Engineering Controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal Protective Equipment:

Eye/face 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 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 laboratory practices. Wash and dry hands.

Body Protection: Wear impervious protective clothing, including gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

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).

Control of environmental exposure: Do not let products enter drains.

SECTION 9. Physical and Chemical Properties

Physical State and Appearance: Off white solid or oil film.

Odor: No information available.

Solubility: Not very soluble in water, very soluble in DMSO and Methanol.

Specific Gravity: No information available.

pH: 6-7 when dissolved in water/DMSO.

Boiling Point: No information available.



Freezing/Melting Point: No information available.

Flash Point: No information available.

Vapor Density (Air=1): N/A

Vapor Pressure: N/A

Evaporation Rate (Butyl acetate =1): No information available.

Partition coefficient; n-octanol/water: No information available.

Autoignition Temperature: No information available.

Decomposition Temperature: No information available.

Viscosity: N/A.

Molecular Formula: C₂₇H₄₄N₄O₆S₂

Molecular Weight: 584.79 Da

SECTION 10. Stability and Reactivity

Stability: Stable under recommended storage conditions.

Hazardous Decomposition Products: No information available.

Hazardous Polymerization: No information available.

Incompatibilities with Various Substances: No information available.

Conditions to Avoid: No information available.

SECTION 11. Toxicological Information

Inhalation: No data available.

Injection: No data available.

Dermal: No data available.

Eye contact: 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: Not listed as a carcinogen by ACGIH, IARC, NTP, or OSHA.

Reproductive Toxicity: No data available.

Specific target organ toxicity – single exposure: No data available.

Specific target organ toxicity – repeated exposure: No data available.

Aspiration hazard: No information available.

Additional information: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12. Ecological Information

Environmental Fate: No information available.

Physical: No information available.

Environmental Toxicity: No information available.

SECTION 13. Disposal Considerations

Waste treatment methods:

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

SECTION 14. Transport Information

DOT (US): Not dangerous goods.

IATA: Not dangerous goods.

IMDG: Not dangerous goods.

**SECTION 15. Regulatory Information****SARA 302 Components:**

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

SARA 313 Components:

SARA 313: 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, Chronic Health Hazard.

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components: Biotin Alprenolol Conjugate.

New Jersey Right To Know Components: Biotin Alprenolol Conjugate.

California Prop. 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. Other Information

References: This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and WHMIS Controlled Products Regulation, Chemical Abstract databases, Superfund Amendments and Reauthorization Act (SARA) and other similar compound's SDS.

Other Special Considerations: Not available.

Created: Aug. 27, 2017

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Product Use: Laboratory Reagent

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Prepared by: CellMosaic, Inc. Health and Safe