



Safety Data Sheet:

3-O-alpha-mycarosylerythronolide B

Section 1: Identification

Product Name: 3-O-alpha-mycarosylerythronolide B

Chemical Name/Synonyms: MEB

Company: Fermalogic, Inc. 4222 N. Ravenswood Ave. Suite 208, Chicago, IL 60613

Recommended Use: 3-O-alpha-mycarosylerythronolide B is a non-toxic natural product useful for drug discovery research, particularly antibiotic drug discovery.

In emergency call 911.

For information about this SDS, use this phone#: 312 888 1129

Section 2: Hazard(s) Identification



Hazard Classification: non-hazardous

Signal Word(s): Warning

Hazard Statements: Possible skin and eye irritant

Pictograms: see above

Precautionary Statements: Potentially harmful if swallowed

Description of other hazards: A toxicological analysis of this compound has not been completed, however it is most closely related to the commonly used antibiotic erythromycin. Therefore use appropriate caution to prevent opportunities for direct contact with skin or eyes and avoid inhalation. Compound is non-hazardous and non-flammable and non-toxic.

Section 3: Composition/ Information on Ingredients

Chemical Name	Synonym	CAS#	Conc.
3-O-alpha-mycarosylerythronolide B	MEB	There is no CAS number for this compound; The PubChem CID is 441108	solid powder

Section 4: First-Aid Measures

After skin contact: Flush skin with water for 15 minutes, remove contaminated clothing.
After eye contact: Flush eyes with water, while lifting upper and lower eyelids.
After inhalation: Remove from exposure and move to fresh air.
After swallowing: Do not induce vomiting. Rinse mouth and drink two cupfuls of water.

Section 5: Fire-Fighting Measures

Suitable extinguishing agents: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Special protective equipment for firefighters: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6: Accidental Release Measures

Personal precautions: Use proper personal protective equipment as indicated in Section 8.

Measures for cleaning/collecting: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal.

Section 7: Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Store at 2-8° C, in a well closed container. Protect from light.

Section 8: Exposure Controls/Personal Protection

General protective and hygienic measures: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

Breathing equipment: Wear a NIOSH/MSHA or European Standard EN 149 approved full-face piece airline respirator in the positive pressure mode with emergency escape provisions.

Protection of hands: Wear appropriate protective gloves and clothing to prevent skin exposure.

Eye protection: Wear safety glasses and chemical goggles if splashing is possible.

Section 9: Physical and Chemical Properties

Form: Crystalline powder

Odor: Odorless

Odor threshold: —

pH: not available

Melting point/melting range: not available

Boiling point/boiling range: not available

Flash point: not available

Evaporation rate: not available

Flammability: non-flammable

Upper/lower flammability or explosive limits: not explosive

Auto ignition temperature: not available

Danger of explosion: no danger

Vapor pressure: not available

Vapor density: not available

Relative density: not available

Solubility in/Miscibility with water: highly insoluble in water

Section 10: Stability and Reactivity

Reactivity: none known

Chemical stability: Stable under normal temperatures and pressures.

Conditions to avoid: high temperatures, and light.

Incompatible materials: not available

Hazardous decomposition products: no unusual decomposition products expected

Section 11: Toxicological Information

Acute toxicity: No information available.

Potential routes of exposure/potential health effects No information available.

Skin: No information available.

Eye: No information available.

Inhalation: No information available.

Ingestion: No information available.

Carcinogenic effects: No information available.

Mutagenic effects: No information available.

Reproductive toxicity: No information available.

Sensitization: No information available.

Target organs: No information available.

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: —

Mobility: —

Biodegradation: —

Bioaccumulation: —

Section 13: Disposal Considerations (non-mandatory)

Section 14: Transport Information (non-mandatory)

DOT regulations:

- **Hazard class:**
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:**
- **Maritime transport IMDG:**

Air transport ICAO-TI and IATA-DGR:

- **ICAO/IATA Class:**

Section 15: Regulatory Information (non-mandatory)

US Federal Regulations

SARA Section 355 (extremely hazardous substances):

SARA Section 313 (specific toxic chemical listings):

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs):

TSCA (Toxic Substances Control Act):

Section 16: Other Information

SDS date of preparation/update: 15 June 2020

JMW Fernallogic