

EPICENTRE Biotechnologies
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Emergency Tel: 608-258-3080 or 800-284-8474 8:00 AM-4:30 PM Central Time
MATERIAL SAFETY DATA SHEET
Effective: 08/2010

Section 1: Chemical Identification

Product: Brefeldin A; 1,6,7,8,9,11a, 12, 13,14,14 α -Decahydro-1,13-dihydroxy-6-methyl-4H-cyclopent[*f*]oxacyclotridecin-4-one; Catalog numbers B901MG, B920MG, and B905MG

Section 2: Composition and Information on Hazardous Ingredients

<u>Component</u>	<u>%</u>	<u>CAS No</u>	<u>Formula</u>	<u>Molecular Mass</u>
Brefeldin A	100	20350-15-6	C ₁₆ H ₂₄ O ₄	280.37

Synonyms: Ascotoxin; cyanein; nectrolide, synergisidin, decumbin; or BFA.

Section 3: Hazards Identification

Label precautionary statements: Toxic (USA) Harmful (EU Harmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing.

Section 4: First Aid Measures

Medical conditions aggravated by exposure: Unknown

Emergency and first aid information:

Ingestion: Wash mouth with water and seek medical advice immediately. Do not induce vomiting.

Inhalation: Remove to fresh air. Call a physician if breathing becomes difficult.

Contact: Flush with copious amounts of water for at least 15 minutes. Consult a physician if persistent rash develops. Do not wear contact lenses when handling material.

Section 5: Fire Fighting Measures

Unusual Fire and Explosion Hazards: Emits toxic fumes under fire conditions.

Extinguishing Media: Water, CO₂, Dry chemicals

Fire fighting Procedures: Wear self-contained breathing apparatus and protective clothing to protect skin and eyes.

Section 6: Accidental Release Measures

Spills: Wear appropriate protective clothing and use appropriate equipment. Sweep up and place in a bag and hold for waste disposal. Avoid contact with skin and eyes.

Disposal: Dispose of material in accordance with appropriate federal, state and local laws. Dispose by dissolving or mixing in a solvent and ship to a chemical incineration facility.

Handling and Storage: Wear appropriate NIOSH/MSHA approved respirator, chemical resistant gloves, safety goggles and other protective clothing as needed.

Section 7: Handling and Storage

Respiratory protection: Use appropriate respiratory protection approved by NIOSH/MSHA.

Ventilation: Mechanical (general) or local exhaust as needed. Avoid raising dust.

Personal Protective Equipment: Protective, chemical resistant gloves, safety glasses or goggles, and lab coat are recommended. Access to safety shower and eye wash. Avoid contact with eyes, skin and clothes. Wash thoroughly after handling.

Work/Hygienic practices: Mechanical (general) or local exhaust as needed. Avoid raising dust.

Section 8: Exposure Controls/Personal Protection

Wear appropriate government approved respirator, chemical resistant gloves, safety goggles, and other protective clothing. Mechanical exhaust is required.

Section 9: Physical and Chemical Properties

Appearance and odor: white, odorless crystals
UV Max in Ethanol: 215 nm (log ϵ 4.06)
Solubility in Ethanol and Methanol: 10 mg/ml

Melting Pt: 204-205°C
Solubility in Propylene glycol: 1 mg/ml
Solubility in DMSO: 20 mg/ml

Section 10: Stability and Reactivity

Stability: Stable
Incompatibility: N/A
Hazardous decomposition products: carbon dioxide, carbon monoxide
Hazardous polymerization: will not occur

Section 11: Toxicological Information

Acute Effects: Harmful if swallowed, inhaled or absorbed through skin. May cause cyanosis. Can cause gastrointestinal disturbances.

Irritation Data: May caused eye and skin irritation.

Toxicity Data: Intraperitoneal mouse: LD50: 250 mg/kg

RTECS #: GY8410000

4H-cyclopent(F)oxacyclotridecin-4-one,1,6,7,8,9,11A- β ,12,13,14,14a- α -decahydro-1- β -13- α -dihydroxy-6- β -methyl

Section 12: Ecological Information

No data available.

Section 13: Disposal Considerations

Dispose material and container in accordance with appropriate federal, state and local laws and regulations. Recover and recycle if possible. Processed material may require different disposal methods.

Section 14: Transport Information

No special considerations are known.

Section 15: Regulatory Information

European Union: Substance not yet fully tested. Harmful.

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Harmful by inhalation, in contact with skin and if swallowed. Wear suitable protective clothing.

Section 16: Other Information

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