

Safety Data Sheet

Section 1: Product & Company Identification

Product Name:	Caspofungin acetate
Product #:	C-2609
Synonyms:	L-743,872; MK 0991
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
Caspofungin acetate	179463-17-3	605-859-0	≥98

Section 3: Hazards Identification

Symbols



HMIS Rating

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
3	*	0	0

NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard
3	0	0

Section 4: First Aid Measures

General Overview:	N/A
Inhalation:	Supply fresh air; consult a doctor in case of complaints.
Skin:	Generally, the product does not irritate the skin.

Eyes:	Rinse opened eyes for several minutes under running water. Then consult a doctor.
Ingestion:	If symptoms persist, consult a doctor.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures

Flammability of the product:	Product is not flammable.
Extinguishing Media:	Use firefighting measures that suit the environment. A solid water stream may be inefficient.
Hazardous thermal (de)composition products:	No data available
Special Fire Fighting Procedures:	No special measures required.
Flash Point:	No data available

Section 6: Accidental Release Measures

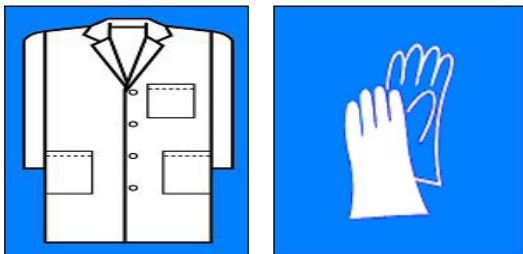

Personal Precautions:	Wear protective equipment. Keep unprotected persons away.
Environmental Precautions:	Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.
Methods for Clean-up:	Use neutralizing agent. Dispose of contaminated material as waste according to Section 13.

SECTION 7: Handling & Storage

Storage:	No special requirements. Recommended storage temperature: -20°C
Handling:	Thorough dedusting.

SECTION 8: Exposure controls / Personal Protection

Respiratory Protection:	 <p>Not required</p>
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Skin and Body:	 <p>Protective gloves and lab coat.</p>
Eyes:	 <p>Tightly sealed goggles.</p>
Ventilation/Engineering Measures:	Ensure adequate ventilation.
Hygiene:	Follow standard good industrial hygiene practices.
Other:	Contains no substances with occupational exposure limit values.

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	Crystalline. Characteristic odor.
Formula	$C_{52}H_{88}N_{10}O_{15} \cdot 2C_2H_4O_2$
Molecular Wt.	1213.4
Melting Pt.	No data available
Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	DMF (20 mg/mL); DMSO (25 mg/mL); Ethanol (20 mg/mL); PBS [pH 7.2] (3 mg/ml)
Flash Point:	No data available
Autoignition Temp:	No data available

SECTION 10: Stability and Reactivity

Stability:	No decomposition if used according to specifications.
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Hazardous decomposition products:	Carbon oxides, nitrogen oxides
Materials to Avoid:	Strong oxidizing agents
Conditions to avoid:	No data available

SECTION 11: Toxicological Information

RTECS#:	N/A
ACUTE Toxicity:	<p>Primary irritant effect:</p> <ul style="list-style-type: none"> · on the skin: No irritant effect. · on the eye: Strong irritant with the danger of severe eye injury. · Sensitization: No sensitizing effects known.
CHRONIC Toxicity:	N/A
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.</p> <p>AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>

SECTION 12: Ecological Information

Ecotoxicity:	Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available

General Notes:	No data available
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SECTION 13: Disposal Considerations

Residue Waste or Unused product:	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
Contaminated Packaging:	Disposal must be made according to official regulations.

SECTION 14: Transportation Information

UN ID#:	UN3077
ADR / RID (LAND):	
DOT regulations:	<p>Environmentally hazardous substance, solid, n.o.s. (Caspofungin (acetate)) Class: 9 Miscellaneous dangerous substances and articles Label: 9 Packing Group: III</p> <p>Quantity Limitations: On passenger aircraft/rail: 400 kg On cargo aircraft only: 400 kg</p>
IMDG/IMO (SEA):	<p>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Caspofungin (acetate)) Class: 9 Miscellaneous dangerous substances and articles Label: 9 Packing Group: III</p> <p>Limited Quantities (LQ): 5 kg Excepted Quantities (EQ): Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g</p>
IATA/DGR (AIR):	<p>Environmentally hazardous substance, solid, n.o.s. (Caspofungin (acetate)) Class: 9 Miscellaneous dangerous substances and articles Label: 9 Packing Group: III</p> <p>Remarks: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.</p>
Special Provisions:	<p>Warning: Miscellaneous dangerous substances and articles</p> <p>Hazard identification number (Kemler code): 90 EMS Number: F-A,S-F Stowage Category: A</p>

	Stowage Code: SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9.
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SECTION 15: Regulatory Information

Health Phrases:	Danger! H318 Causes serious eye damage. H362 May cause harm to breast-fed children. H410 Very toxic to aquatic life with long lasting effects.
Risk Phrases:	P201 Obtain special instructions before use. P260 Do not breathe dusts or mists. P263 Avoid contact during pregnancy/while nursing. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear eye protection / face protection.
Safety Phrases:	P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a poison center/doctor. P308+P313 IF exposed or concerned: Get medical advice/attention. P391 Collect spillage. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
EU Regulations:	N/A
US Regulations:	TSCA: Not listed California Proposition 65: No products were found
U.S. Federal Regulations:	SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. SARA 313 toxic chemicals notification and release reporting: No products were found. Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA:
WHMIS (Canada):	N/A

SECTION 16: Other Information



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