Corporate Address: Building C25-C28, No. 218 Xinghu Road, Suzhou Industrial Park, Suzhou, Jiangsu, China Zip: 215123

Tel: 0086-512-62620988 Fax: 0086-512-62551799



Chemical Material Safety Data Sheet

Chemical Name: Caspofungin acetate

Part 1 Chemical and Manufacturer Introduction

Chemical Name (Chinese) 醋酸卡泊芬净

<u>Trivial name</u> N/A

Caspofungin;(3S,6S,9S,11R,15S,18S,20R,21S,24S,25S)-21-(2-Aminoethylamin

o)-3-[3-amino-1(R)-hydroxypropyl]-6-[1(S),2(S)-dihydroxy-2-(4-hydroxypheny

<u>Chemical Name (English)</u> l)ethyl]-18-(10,12-dimethyltetradecanamido)-11,20,25-trihydroxy-15-[1(R)-hyd

roxyethyl]-1,4,7,13,16,22-hexaazatricyclo[22.3.0.0(9,13)]heptacosane-2,5,8,14,

17,23-hexaone diacetate

BrightGene Bio-Medical Technology Co., Ltd.

Tel:86-512-80980988

Part 2 Component information

Company Identification

<u>Item</u>	<u>Name</u>	Content.	<u>CAS No.</u>	<u>Molecularformula</u>	<u>Molecular</u> <u>Weight</u>
Major component	Caspofungin	≥98	179463-17-3	$C_{52}H_{88}N_{10}O_{15}^{-2}(C_2 H_4O_2)$	1213.42
Impurities	N/A	N/A	N/A	N/A	N/A

Part 3 Hazards Description

Hazards class N/A

Exposure pathway Skin contact, eye contact, inhalation, ingestion

May have a stimulating effect on the eyes, skin, mucous membranes and upper Health effect

respiratory tract

Environment hazards Harmful to the environment, pollute water and soil

Hazards from combustion and

explosion

Eye contact

N/A

Part 4 First Aid Measures

Skin contact Wash with soap and water. Get medical attention if irritation develops.

In case of contact, immediately flush eyes with plenty of water for at least 15

minutes. Get medical attention immediately.

If inhaled, remove to fresh air. If not breathing, give CPR (cardiopulmonary

<u>Inhalation</u> resuscitation). If breathing is difficult, give oxygen. Get medical attention

immediately.

Do NOT induce vomiting unless directed to do so by medical personnel. Never give

<u>Ingestion</u> anything by mouth to an unconscious person. Get medical attention if symptoms

appear.

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Part 5 Firefighting

<u>Hazardous characteristics</u> N/A

Hazardous combustion product Carbon oxides, nitrogen oxides (NOx)

<u>Extinguish Method and media</u> Water vapor, dry chemical, or carbon dioxide

Note Fire fighters should wear positive pressure self-contained breathing apparatus

(SCBA) and full turnout gear.

Part 6 Leakage emergency disposal

Immediately contact emergency personnel. Keep unnecessary personnel away.If

emergency personnel are unavailable vacuum or carefully scoop up spilled materials

and place in an appropriate container for disposal. Avoid creating dusty conditions

and prevent wind dispersal. Minimize contact of spilled material with soils to

prevent runoff to surface waterways.

Part 7 Operation and Storage

Leakage emergency disposal

Note on operation Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid

contact of spilled material and runoff with soil and surface waterways.

Notes on storage Store in a tight container at -70°C. Keep container in well-ventilated area.

Part 8 Labor Protection

Maximum allowable concentration N/A

Monitoring Mothod N/A

None required with normal handling of finished product. Minimize open handling.

Process control

Containment technologies suitable for controlling compounds are required to control

at source and to prevent migration of the powders to uncontrolled areas (e.g.,

open-face containment devices).

<u>Respiration protection</u> If ventilation is not available a respirator should be worn

Eye protection Wear safety goggles when handling a chemical substance in the laboratory.

Body protection Wear appropriate protective clothing to minimize contact with skin.

Hand protection Wear protective clothing and gloves.

Work site prohibit smoking, eating and drinking. After work, take a shower.

Maintain good health habits.

Part 9 Physical and Chemical Characteristics

Annagranaa

<u>Appearance</u>	white to ou wi	ne to on white powder		
<u>рН</u>	N/A	Critical Temp.($^{\circ}$ C)	N/A	
Melting Point ($^{\circ}$ C)	153	Critical Pressure(MPa)	N/A	
Boiling Point ($^{\circ}$)	1408.1	Ignition Temp.($^{\circ}$ C)	N/A	

White to off white newder

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N/A

 $\underline{Flash\ point(^{\circ}C)} \qquad \qquad 805 \qquad \underline{density.(g/cm^3)} \qquad \qquad N/A$

<u>Vapor density related to ai</u> N/A <u>Logarithm of dispensing coefficient in</u>

Octanol/Water

Saturated vapor pressure (kPa) N/A Upper explosive limit(V/V) N/A

<u>Combustion heat(kJ/mol)</u> N/A <u>Low explosive limit(V/V)</u> N/A

Solubility Easily soluble in cold water.

<u>Main application</u> Therapy for the treatment of other invasive or intolerant to mycosis

<u>Others</u> N/A

Part 10 Stability and Reactivity

<u>Stability</u> Stable under ordinary conditions

Material to avoid N/A

<u>Condition to avoid</u> Please keep it away from direct light, and wet

Polymerization N/A

Decomposition products N/A

Part 11 Toxicological Data

Acute toxicity N/A

Subacute and chronic toxicity N/A

<u>Irritation</u> N/A

Sensitization N/A

Mutagenicity N/A

<u>Teratogenicity</u> N/A

<u>Carcinogenicity</u> N/A

<u>Others</u> N/A

Part 12 Ecological information Data

Ecological toxicological N/A

Biodegration N/A

Abiotic degradation N/A

Bio-concentration/Bio-accumulation N/A

<u>Others</u> N/A

Part 13 Disposal considerations

Waste description N/A

<u>Disposal method</u> The predisposal should refer to the relevant state and local laws and

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regulations. Proposed disposal by incineration

<u>Notes</u> N/A

Part 14 Transportation

<u>Code</u> General Goods

<u>UN Code</u> N/A

<u>Package mark</u> N/A

<u>Kinds of package</u> N/A

Packing method Aluminum bag

Caution during transportation N/A

Part 15 Regulatory reference

Chemical Dangerous Goods Safety Management Regulations (December 1, 2011)

Implementation of the Regulations of the safety management of dangerous

chemicals (of labor [1992] No. 677)

Regulatory reference Safe use of chemicals in the workplace regulations (Ministry of Labor [1996] No.

423) and other laws and regulations

Commonly used classification and marking of hazardous chemicals (GB

13690-92)

Part 16 Other information

<u>Reference literature</u> N/A

Effective date of previous version N/A

<u>Update date</u> 2016.03.28

<u>Dept. fill in</u> EHS

<u>Data Review</u> N/A

Revision information N/A

Others N/A

Note: MSDS information should be updated every five years.