# **MATERIAL SAFETY DATA SHEET**



Date Prepared: 02/20/2003

Date Reviewed: 02/20/2003

# MYCAMINE (MICAFUNGIN SODIUM) FOR INJECTION

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Micafungin General Use: Antifungal

# MANUFACTURED FOR EMERGENCY TELEPHONE NUMBER

Astellas Pharma US, Inc. (800) 727-7003

3 Parkway North

Deerfield, IL 60015-2538

(847) 317-8800

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component: Citric Acid CAS Registry #: 77-92-9

UN Number:

OSHA NE mg/m3 OSHA PEL: NE ppm

STEL: NE mg/m3 STEL: NE ppm

Percent of NG Product: NG

Component: CAS Registry #: 63-42-3

UN Number: NG

UN Number: NO

OSHA NE mg/m3 OSHA PEL: NE ppm

**ACGIH ACGIH** NE NE mg/m3 ppm TLV: TLV: STEL: **NE** mg/m3 STEL: NE ppm Percent of NG Note: NG Product:

Component: Micafungin Sodium CAS Registry #: 208538-73-2

UN Number: NG

Chemical (-) - Sodium 5-[1S, 2S) - 2 - [(3S, 6S, 9S, 11R, 15S, 18S, 20R, 21R, 24S, 25S,

Name: 26S,) -18 -3- [(R) - 2 - carbamoyl- 1 - hydroxyethyl] - 11, 20, 21, 25 -

tetrahydroxy - 15 - [(R)-1- hydroxyethyl] - 26-methyl- 2,5,8,14,17,23 - hexaoxo - 18- [4 - [5-(4-pentyloxyphenyl) isoxazol - 3 - yl] benzoylamino] -1,4,7,13,16,22,

- hexaazatricyclo [ 22.3.0.0 9,13] heptacos-6-yl] - 1,2-dihydroxyethyl]-2-

hydroxyphenyl sulfate

**OSHA** NE mg/m3 OSHA PEL: NE ppm PEL: **ACGIH ACGIH** NE mg/m3 NE ppm TLV: TLV: STEL: **NE** mg/m3 STEL: NE ppm Percent of NG Note: 50mg Product:

Component: CAS Registry #: 1310-73-2

UN Number: NG

**OSHA** mg/m3 OSHA PEL: NE ppm PEL: **ACGIH ACGIH** 2 mg/m3 NE ppm TLV: TLV: 2 STEL: mg/m3 STEL: NE ppm Percent of

Product: NG Note: NG

#### 3. HAZARD IDENTIFICATION

PRIMARY ROUTES OF EXPOSURE - Inhalation, Eye/Skin Absorption and Ingestion.

COMPONENT CAS No.	NTP	IARC	OSHA	COMMENT
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Citric Acid	77-92-9	NO	NO	NO	NA
Lactose	63-42-3	No Data	No Data	No Data	NA
Micafungin Sodium	208538-73-2	No Data	No Data	No Data	
Sodium Hydroxide	1310-73-2	No Data	No Data	No Data	Sodium hydroxide is considered an eye irritant.

# 4. EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move person to fresh air immediately. Give artificial respiration and Cardiopulmonary Resuscitation (CPR) if required. Seek medical attention.

Ingestion: Flush mouth out with woater immediately. Seek medical attention.

Skin Contact: Remove contaminated clothing immediately. Flush area with water for at least 15 minutes. Seek medical attention.

Eye Contact: Immediately flush with water for at least 15 minutes. If irritation persists, seek medical attention.

For Adverse Drug Reaction Information: phone: (847) 317-1276; fax: (847)-317-1241; email:safety@fujisawa.com

#### 5. FIRE FIGHTING MEASURES

Fire and Explosion Data:

Product Closed Cup Flash NA

Flammability: Pt.:

Autoignition: NA Open Cup Flash Pt.: NA

Flammability Limits: NA

Products of Combustion: NA

Fire Hazards in the

Presence of Various None

Subtances:

Explosion Hazards in the - Risk of explosion of the product in presence of mechanical impact:

Presense of Various NA - Risk of explosion of the product in presence of static discharge:

Substances: NA

Firefighting Media and

Instructions:

NG

Firefighting Equipment: Water

Protective Clothing (fire): USe extinguishing media suitable for surrounding materials

Special Remarks on Fire

Hazards:

None

#### 6. ACCIDENTAL RELEASE MEASURES

Clean up: Wear recommended personal protective equipment. Use absorbent towels or booms to clean up spills. Wipe surfaces clean and wash with soap and water.

#### 7. HANDLING AND STORAGE

When handling pharmaceutical products, avoid all contact and inhalation of dust, fumes, mist,and/or vapors associated with the product.

Store product at room temperature 20 to 25C(68-77 F)

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **ENGINEERING CONTROLS:**

Under indicated use, general room ventilation is usually satisfactory. Use local exhaust ventilation when necessary.

# PERSONAL PROTECTION:

Respirators: With satisfactory ventilation, repiratory protection not usually required.

Eyes: Safety glasses or goggles recommended.

Gloves: Disposable latex (or other appropriate) gloves

Clothing: Disposable garments if direct skin contact is anticipated.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance, other characteristics: Lyophilized powder

Boiling Point: NA Vapor Density: NA

Melting Point: No clean point Percent Volatiles: NA

Freezing Point: NG pH: 5-6

Vapor Pressure: NA Molecular Weight: 1292.27

Note: None Solubility: More than 200mg/mL

Color: White to Odor: None noted

yellowish

Specific NG

Gravity: NG LogK: NE

None

# 10. STABILITY AND REACTIVITY

Stability: Stable

Conditions/Materials to

Avoid:

Hazardous Polymerization: Will not occur

#### 11. TOXICOLOGY INFORMATION

INGREDIENT NAME	TEST	RESULT	ROUTE	SPECIES
Micafungin Sodium	LD50	125mg/kg	IV	Male rats
Micafungin Sodium	LD50	250mg/kg	IV	Female rats
Micafungin Sodium	LD50	>200mg/kg	IV	Male and Female dogs

#### SIGNS & SYMPTOMS OF OVEREXPOSURE MAY INCLUDE:

This product is intended for therapeutic use only when prescribed by a physician. Potential adverse reactions from prescribed doses and overdoses are described in the package insert, these may include:nausea, headache, diarrhea, pruritits and bilirubinemia. Occupational exposure has not been fully investigated.

# MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY **EXPOSURE:**

Pre-existing skin and respiratory conditions.

IMMEDIATE EFFECTS: Eye, skin and repiratory irritation may occur.

#### 12. ECOLOGICAL INFORMATION

INGREDIENT NAME	SPECIES	PERIOD	RESULT		
** Not Available **					

BOD and COD: NA

Not available Biodegradable/OECD: Mobility: Not available

Products of Degradation: The product itself and its products of degradation are not toxic

Toxicity of the Products of

Not available

Biodegradation:

Special Remarks on the

Not available Products of Biodegradation:

#### 13. WASTE DISPOSAL

Waste Disposal: Waste product should be incinerated in accordance with all federal, state and local regulations

# 14. TRANSPORT INFORMATION

REGULATORY INFORMATION	UN Number	Proper Shipping	Class		
United States (DOT)	Not regulated				
PACKING GROUP:		LABEL:			
ADDITIONAL INFORMATION:					
Canada (TDG)	Not regulated				
PACKING GROUP:		LABEL:			
ADDITIONAL INFORMATION:					
Mexico (NOM-004- SCT2-1994)	Not regulated				
PACKING GROUP:		LABEL:			
ADDITIONAL INFORMATION:					

#### 15. REGULATORY INFORMATION

HCS

Not controlled under HCS (US)

Classification:

TSCA 8(b) inventory: All components listed Clean Water Act (CWA) 307: No products were found Clean Water Act (CWA) 311: Sodium Hydroxide Clean Air Act (CAA)112 accidential release prevention: No products were found Clean Air Act (CAA) 112 flammable substances: No products were found Clean Air Act (CAA) 112 toxic substances: No products were found SARA 302/304/311/312

U.S. Federal Regulations:

(CAA) 112 toxic substances: No products were found SARA 302/304/311/312 extremely hazardous substances- No products found SARA 302/304 emergency planning and notification: no products were found SARA 302/304/311/312 hazardous chemicals: No products were found SARA 311/312 MSDS

distribution- chemical inventory-hazard identification: No products were found

**SARA 313:** 

Form R -

Reporting No products were found

Requirements:

Supplier

No products were found

Notification:

Pennsylvania RTK: Sodium hydroxide: (environmental hazard, generic environmental hazard) Massachusetts RTK: Sodium hydroxide New Jersey:

Not controlled under WHMIS (Canada) CEPA DSL: All components listed

State Regulations:

Sodium hydroxide California prop 65: No products were found

WHMIS

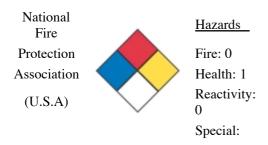
(Canada):

Classification of

the Degree of Risk No hazardous ingredient

(Mexico):

#### 16. OTHER INFORMATION



Label Requirements:

Follow good industrial hygiene practice

References:

Abbreviations:

ACGIH: American Conference Of Governmental Industrial Hygienists

HEPA: High-Efficiency Particulate Air

IARC: International Agency for Research on Cancer

NA: Not Applicable NE: Not Established NG: Not Given

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissable Exposure Limit

PPM: Parts Per Million QS: Quantity Sufficient

RCRA: Resource Conservation and Recovery Act

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value