

MATERIAL SAFETY DATA SHEET

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SECTION 1 - PRODUCT IDENTIFICATION AND HAZARDOUS COMPONENTS

PRODUCT: Nystatin, USP

SYNONYMS: Mycostatin, Fungicidin, Diastatin

MOLECULAR FORMULA: $C_{47}H_{75}NO_{17}$

CHEMICAL FAMILY: Polyene antifungal antibiotic

<u>INGREDIENT (CAS #)</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
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Nystatin (1400-61-9)	100	N/A	N/A
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SECTION 2 - PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT: N/A

VAPOR PRESSURE: N/A

MELTING POINT: 160°C (Decomposes)

VAPOR DENSITY: Negligible

SPECIFIC GRAVITY: N/A
(WATER = 1)

EVAPORATION RATE: N/A
(BUTYL ACETATE = 1)

WATER SOLUBILITY: 4.0 mg/ml

WATER REACTIVE: No

APPEARANCE AND ODOR: Yellow to light tan, hygroscopic powder with an odor suggestive of cereals.

SECTION 3 - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD): N/A AUTOIGNITION TEMPERATURE: N/A

FLAMMABLE LIMITS: LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: Water spray, dry chemical, carbon dioxide, or foam as appropriate for surrounding fire and materials.

SPECIAL FIRE FIGHTING PROCEDURES: As with all fires, evacuate all personnel to a safe area. Firefighters should use self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: As with any organic compound, this material is assumed to combustible in dust form and will produce toxic carbon monoxide and dioxide gases when heated to decomposition.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY: Stable (X) Unstable ()

INCOMPATIBILITY (MATERIALS TO AVOID): Avoid exposure to heat and moisture.

HAZARDOUS DECOMPOSITION PRODUCTS: As with any organic compound, when heated to decomposition this material will emit toxic carbon monoxide and dioxide gases.

HAZARDOUS POLYMERIZATION: May Occur () Will Not Occur (X)

SECTION 5 - HEALTH HAZARD DATA

TOXICITY: No toxicity data established for this material.

CARCINOGEN LISTED BY: NTP Yes () No (X)
IARC Yes () No (X)
OSHA Yes () No (X)
Other Yes () No (X)

ROUTES OF ENTRY: Inhalation, ingestion.

HEALTH HAZARDS:

ACUTE: Eye, skin, and/or respiratory tract irritation.

CHRONIC: Possible hypersensitization.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Possible allergic reaction to dust if inhaled, ingested, or in contact with skin.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: Hypersensitivity to the material.

EMERGENCY FIRST AID PROCEDURES: Remove from exposure and remove contaminated clothing. Persons developing serious allergic reactions must receive immediate medical attention. Upon eye or skin contact, flush the affected area with large amounts of water.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

RESPIRATORY PROTECTION: Wear an approved dust mask or respirator.

PROTECTIVE GLOVES: Rubber.

EYE PROTECTION: Safety goggles.

VENTILATION: Local ventilation recommended.

OTHER PROTECTIVE EQUIPMENT: Appropriate laboratory apparel.

HYGIENIC WORK PRACTICES: Wash clothing before reuse. Wash thoroughly after working with this material. Avoid wearing contact lenses when working with chemicals due to the possibility of increased severity of eye injury.

SECTION 7 - HANDLING AND STORAGE PRECAUTIONS

HANDLING PRECAUTIONS: Decomposes upon exposure to heat, light, and oxygen.

STORAGE PRECAUTIONS: **Keep refrigerated (2-8°C)** in tight, light resistant containers.

OTHER PRECAUTIONS: Avoid contact with eyes, skin or clothing. Avoid breathing the dust. Wash clothes before reuse. Wash thoroughly after handling. Do not eat, drink or smoke near this material.

SECTION 8 - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF SPILL OR DISCHARGE: Wear an approved respirator and rubber gloves. Vacuum or sweep up spillage and place in a tight container for disposal. Avoid contact with dust. Ventilate area and wash spill site with water. Wash clothing and protective equipment before reuse.

WASTE DISPOSAL METHOD: Landfill or incinerate according to all local, state, federal, and environmental regulations.

SECTION 9 - DISCLAIMER

The information contained in this Material Safety Data Sheet has been compiled from reliable sources and is believed to be correct as of the date issued. It is the responsibility of the user to determine the appropriateness and applicability to their situation. Paddock Laboratories, Inc. disclaims any expressed or implied warranty as to the accuracy of the above information and shall not be held liable for any direct, incidental, or consequential damages from use or reliance on the above information.

DEFINITIONS OF ABBREVIATIONS USED:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Service

IARC: Internal Agency for Research on Cancer

IDLH: Immediately Dangerous to Life or Health level

LC50: Median Lethal Concentration

LD50: Median Lethal Dose

N/A: Not available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value