



PACKHAUS ROCKMANN

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NATAMYCIN

MATERIAL SAFETY DATA SHEET

Date of issue: January 2019

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING	
Chemical product name	: Natamycin
Common chemical name	: Pimaricin
Synonyms	: 22-(3-Amino-3,6dideoxy-β-D-mannopyranosyl)oxy-1,3,26-trihydroxy12-methyl-10-oxo-6,11,28-trioxatricycol[22.3.1.0 ^{5,7}] octacosanoic acid trihydrate
Chemical formula	: C ₃₃ H ₄₇ NO ₁₃ • 3H ₂ O
Supplier	: PACKHAUS ROCKMANN GmbH Osttor 9 48324 Sendenhorst Germany
Emergency phone number	: Tel. +49-2526-939377 Fax +49-2526-939378
2. COMPOSITION /INFORMATION ON INGREDIENTS	
Substance/preparation	: 50% Natamycin Standardised with Lactose
Chemical name	: Pimaricin
CAS number	: 7681-83-8
EEC number	: 231683-5
%	: 50–60
3. HAZARD IDENTIFICATION	
Physical/chemical hazards	: Final dispersed particles are sensitive to dust explosion.
Environmental hazards	: The data available does not support any environmental hazard.
Human health hazards	: The data available does not support any adverse human health hazard. Dust may cause mechanical irritation.
Symptoms of (over) exposure	
Inhalation	: coughing
Eyes	: redness
Skin / Ingestion	: No specific effects and/or symptoms are known.



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4. FIRST AID MEASURES

General		:	Remove contaminated clothing. No specific first aid measures are required.
Inhalation	Effects	:	Dust may cause mechanical irritation.
	First aid	:	Remove victim to fresh air. Keep victim at rest. Consult a doctor in event of any complaints.
Skin contact	Effects	:	No specific effects and/or symptoms are known.
	First aid	:	Remove contaminated clothing. Wash off affected skin with plenty of water and soap. Consult a doctor in event of any complaints.
Eye contact	Effects	:	Not irritating. Dust may cause mechanical irritation.
	First aid	:	Wash out with plenty of water with the eyelid held wide open for at least 15 minutes. Consult a doctor.
Ingestion	Effects	:	No specific effects and/or symptoms are known.
	First aid	:	Wash out mouth with water. Consult a doctor in event of any complaints.
Protection of first-aid workers		:	In case of insufficient ventilation, wear suitable respiratory equipment

5. FIRE-FIGHTING MEASURES

Suitable fire extinguish media	:	Water, carbon dioxide snow (CO ₂), foam, dry chemical
Non-suitable media	:	None
Hazardous thermal	:	CO, CO ₂ , NO _x
Specific hazards	:	Finely dispersed Particles are sensitive to dust explosion. Dike fire control water for later disposal.
Protection of fire fighters	:	Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Use appropriate personal protection (see section 8). Prevent forming of dust clouds.
Environmental precautions	:	Does not allow to enter natural waters or soil. If the substance has contaminated surface water, inform the appropriate authorities.
Methods for cleaning up	:	Collect spilled material. Clean up affected area with water. Remove all kinds of dust layers. Prevent forming of dust clouds. Finely dispersed particles are sensitive to dust explosion.

7. HANDLING AND STORAGE

Handling	:	Wear suitable protective clothing. Ventilation recommended. Prevent forming of dust clouds. Take precautionary measures against static discharges.
Storage	:	Keep container tightly closed in a cool place. Keep away from direct sunlight. Keep only in the original container.
Suitable packaging materials	:	Polyethylene containers.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Avoid Exposure first of all by technical and/or organizational measures.

Engineering measures	:	Local exhaust recommended. Ventilate areas.
Hygienic measures	:	Use appropriate personal protection (see section 8)
Occupational exposure limits MAC (Germany)	:	No occupational exposure limits are known.
Other exposure limits	:	No occupational exposure limits are known.
Personal protective equipment		
Respiratory system	:	Dust mask, type P1
Skin and body	:	Working clothing
Hands	:	Gloves
Eyes	:	Safety goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Crystalline solid.
Colour	:	White-off-Crème
Odour	:	Neutral to slightly acid-like
Molecular weight	:	719.8 (trihydrate); 665.7 (anhydrous)
Melting point/range	:	280–300 °C (decomposition)
Bulk density	:	< 2700 ml/kg
pH	:	5.0–7.5 (1 g/l, suspension)
Solubility in water	:	Very slightly soluble.
Solubility in other ingredients	:	Methanol: 3.3 g/l.
Conductivity	:	$1.31 \times 10^{-13} \text{ Ohm}^{-1}/\text{m}$ (20 °C, 30 % rel. H ₂ O)
Flash point	:	Not applicable.
Auto-ignition temperature	:	150 °C
Explosion properties	:	Dust explosion class 1 (VDI 3673)
Min. ignition energy	:	1–3 mJ
Other properties	:	More detailed information on the physical and chemical properties can be requested from the supplier.

10. STABILITY AND REACTIVITY

Stability	:	Stable under storage conditions (see section 7).
Conditions to avoid	:	Prevent forming of dust clouds.
Materials to avoid	:	Not reactive.
Hazardous decomposition products	:	Heat: CO ₂ , NO _x
Hazardous polymerization	:	Will not occur.



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11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Oral	: LD ₅₀ oral rat: > 2730 mg/kg.
Dermal	: No acute toxicity even at high doses.
Inhalation	: Information not available.
Irritation	
Eye	: Rabbit: not irritating.
Skin	: Rabbit: not irritating.
Respiratory system	:
Other information	: The substance is not sensitizing.
Chronic toxicity	: TD _{low} oral rat: 34104 mg/kg/2Y-C
Carcinogenicity	: No evidence of carcinogenicity in experimental animals.
Mutagenicity	: Not mutagenic.

12. ECOLOGICAL INFORMATION

Persistence/degradability	: The substance is readily biodegradable.
Bioaccumulative potential	: Bioaccumulation in aquatic organisms is not expected.
Ecotoxicity	: Not toxic to fish

13. DISPOSAL CONSIDERATIONS

Please check the consequences of national regulations on this product yourself.

Product waste	: Combustion in incinerator.
Contaminated packaging	: Disposal according to the local legislation.
Danger(s)	: Finely dispersed particles are sensitive to dust explosion.

14. TRANSPORT INFORMATION

Land - Road/Railway	: This product is not classified according to ADR/RID.
Inland waterways	: This product is not classified according to ADN
Sea	: This product is not classified according to IMDG.
Air	: This product is not classified according to IATA.
National transport regulations	: No additional national transport regulations are known to the supplier.



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15. REGULATORY INFORMATION

Please check the consequences of national regulations on this product yourself.

EC Regulations

EC Classification	:	This product is not dangerous according to the EC (67/548/EEC-88/379/EEC) regulations.
Hazards symbol(s)	:	-
Risk phrases	:	-
Safety phrases	:	-
National regulations	:	No additional national regulations are known to the supplier.

16. OTHER INFORMATION

The information contained in this Material Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this preparation. The information in this sheet represent analytical specifications, for which please refer to our technical data sheet.

The format of this MSDS complies with the Directive 91/155/EEC as amended and ISO standard ISO 11014-1:1994 (E) and is Recommended by the Association of Manufacturers of Fermentation Enzyme Products "AMFEP".