

Safety Data Sheet

Corresponding to EC Directive 93/112/EC

Date of issue: 04-APR-2007

Replaces version of: 19-DEC-2005

DENAGARD 45% 450019 (KUNDL)



1. Identification of the substance/preparation and of the company

Product name DENAGARD 45%
Company name Sandoz GmbH
Biochemiestrasse 10
A-6250 Kundl / Tirol
AUSTRIA

Emergency phone number +43 5338 200 0, E-Mail: sds.support@novartis.com

2. Hazards identification



Irritating to eyes and respiratory system. May cause sensitization by inhalation and skin contact.

3. Composition / information on ingredients

Chemical characterisation of the substance / preparation:

Chemical Name TIAMUTIN 45% WATERSOLUBLE GRANULES AD US. VET.

Contains:

Chemical Name	Contains:	CAS Number	EINECS / ELINCS Number	EC Label	Risk Phrases
TIAMULIN HYDROGENFUMARATE	45 %	55297-96-6	2595816	Xn	R36/37, R42/43

For TLV values of declared components, see section 8, Exposure controls / Personal

4. First aid measures

Eye Contact Immediately rinse eyes with running water and seek medical advice.
Skin Contact After contact with skin, wash immediately with plenty of water and soap.
Inhalation Take patient immediately to factory medical centre or call for an ambulance.
Ingestion If swallowed, wash mouth with plenty of water. Take patient to physician/factory medical centre or call for an ambulance.

5. Fire fighting measures

Suitable Extinguishing Media all
Extinguishing media, not to be used no restrictions
Dangerous Combustion Products carbon monoxide, carbon dioxide, sulfur dioxide, nitrogen oxides
Special protective equipment for firefighters Wear self contained breathing apparatus.

6. Accidental release measures

Personal precautions Avoid contact with skin, eyes and clothing.
Environmental Must not be released into sewers, drains or wells.

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precautions

Methods for cleaning Transfer large quantities into a container, rinse the rest with plenty of water.

7. Handling and storage

Preventive Precautions (fire/explosion) Take precautionary measures against static discharges. Avoid formation of dust. Keep away from sources of ignition.

Maximum Storage Temperature (safety) 25 °C

Storage and Handling Precautions Keep dry. Warehouse must be continuously well ventilated. Store in a dark place

8. Exposure controls / Personal protection

Industrial Hygiene Avoid contact with skin., After finishing work wash hands and face with water and soap

Open Handling

Respiration	: Full face mask (EN136)
Eye	: tightly fitting safety goggles (EN166)
Hand	: Butyl rubber gloves (EN374)
Additional protection	: Disposable dust-proof suit (EN465, type 4) worn over long underwear

9. Physical and chemical properties

Physical state solid

Colour white yellowish

Odour weakly to very weakly

Autoignition Temperature: 330 °C
Method: BAM (fluidized dust)

pH 3 - 4 (70 g/l, 20 °C)

Solubility (Aqueous Solvents) Water: soluble (Temperature: 20 °C)

10. Stability and reactivity

Isoperibolic Decomposition Stable up to: 130 °C
Method: long duration test open cup (16h)
Exothermal decomposition may occur with delay (autocatalysis)

Dynamic Decomposition

Exothermie: 160 °C (air closed + stl steel)
Decomposition: > 330 J/g
Exothermie: 125 °C (air bubbled)
Decomposition: 330 J/g
Exothermie: 160 °C (Air open cup)
Decomposition: 30 J/g
Exothermie: 100 °C (Steel gold plated, closed (high pressure))
Decomposition: 12 J/g
Method: Dynamic scanning calorimetry (DSC)

Combustibility Test

Standard conditions: 3 = local burning or glowing showing very little tendency to spread (Temperature: 20 °C)
Standard conditions: 3 = local burning or glowing showing very little tendency to spread (Temperature: 100 °C)

Dust Explosion Positive Minimum Ignition Energy: 30 - 100 mJ

Deflagration No suspicion, due to decomposition test

Drop-Weight Test Negative

11. Toxicological information

Acute Toxicity LD50 oral: 2230 mg/kg

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Irritation Species: rat
LD50 oral: 710 mg/kg
Species: mouse
Eyes (Species: human) Yes
respiratory system (Species: human) Yes

Sensitisation respiratory system (Species: human) Suspicion
Skin (Species: human) Suspicion

12. Ecological information

Ecotoxicity Summary Avoid release into soil, rivers or drains.

13. Disposal considerations

Disposal Requirements May be incinerated if local official regulations are observed.

14. Transport information

Regulatory	Class	UN-No	PG	Label	Tremcards Code	LQ
RID/ADR:	not restricted	0				

15. Regulatory information

EC Label

assessment: Labelling according to EC Directives:

Xn harmful

R36/37: Irritating to eyes and respiratory system.

R42/43: May cause sensitization by inhalation and skin contact.

S22: Do not breathe dust.

S24/25: Avoid contact with skin and eyes.

S36/37: Wear suitable protective clothing and gloves.

16. Other information

Recipient Novartis Animal Health
Basel
Switzerland

Changes since the previous version in chapter 9. Physical and chemical properties
10. Stability and reactivity

Product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with legal regulations. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.