

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version: 2.1
Revision Date 09.03.2010

Print Date 09.03.2010

DENAGARD 10% PREMIX

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Substance No. : 000070002347
NAH Substance Code : A-20003 B
Trade name : DENAGARD 10% PREMIX
TIAMUTIN 10% PREMIX
Product name : TIAMULIN FUMARATE COATED, PREMIX 10%
Company : Novartis Animal Health Inc.
Schwarzwaldallee 215
CH - 4058 Basel
Switzerland

Telephone : +41616971111
Contact person : Phone (office hours) +41 61 697 30 65
E-mail address : msds.nah@novartis.com

Emergency information

Emergency telephone : **Phone (24 h) +41 61 696 33 33**
Emergency information : concerning transport see emergency phone number in the shipping documents
concerning storage see emergency phone number of local Novartis organization

2. HAZARDS IDENTIFICATION



Risk advice to man and the environment

Health Hazard : Irritating to eyes and respiratory system.
May cause sensitization by inhalation and skin contact.
Environmental hazard in case of accident (Spillage/Leakage) : Do not contaminate waters and sewers.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Use : Veterinary medicinal product, Antibiotic
Type of preparation : Premix feed additive

Hazardous components

Denomination	CAS-No.	Symbol(s)	R-phrases	Concentration (% w/w)
Tiamulin fumarate	55297-96-6	Xn	R36/37	10.00

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice : IN CASE OF SUSPECTED POISONING: Immediately call a physician.
Inhalation : Remove to fresh air. Consult a physician if any symptoms develop and persist.
Skin contact : Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.
Eye contact : Rinse eyes with clean water for several minutes and immediately call a physician.
Ingestion : Rinse mouth with water. If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

Notes to physician

Poisoning Symptoms : No information available.
Antidote : No specific antidote is known! Apply symptomatic therapy.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version: 2.1
Revision Date 09.03.2010

Print Date 09.03.2010

DENAGARD 10% PREMIX

5. FIRE-FIGHTING MEASURES

- | | | |
|--|---|---|
| Combustibility | : | yes |
| Suitable extinguishing media | : | Dry powder, foam, carbon dioxide (CO ₂) or water spray (do not use water jet). |
| Special protective equipment for fire-fighters | : | Use respirator to protect from fumes. |
| Further information | : | Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably. |
| Swiss Fire Prevention Code | : | F4 S |

6. ACCIDENTAL RELEASE MEASURES

- | | | |
|-------------------------|---|--|
| Methods for cleaning up | : | Refer to protective measures listed in sections 7 and 8.
Collect material in specially marked, tightly closing containers.
Dampen solid material carefully to prevent it being blown away.
Treat contaminated surfaces with water.
Put washing water in containers too, to avoid any contamination of surface and ground water, water supplies and drains. Hose down the area for a prolonged period. Heavily contaminated soil layers have to be dig out.
Spilled product cannot be used further and must be disposed of.
If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. |
| Additional advice | : | Do not contaminate waters and sewers. |

7. HANDLING AND STORAGE

Handling

- | | | |
|----------------------|---|---|
| Safe handling advice | : | Take precautionary measures against static discharges.
Avoid raising dust.
Remove all sources of ignition.
Avoid contact with skin, eyes and clothing.
Do not eat, drink or smoke while working.
In addition to the measures taken usually in the chemical works like dustproof filling and measuring equipment (including dust extraction), further personal protection measures may have to be implemented to avoid possible contact with the product. |
|----------------------|---|---|

Storage

- | | | |
|--------------------------|---|--|
| Advice on common storage | : | Keep away from food, drink and animal feedingstuffs.
Store the product in closed original containers. |
| Novartis storage class | : | 20.2 |
| Storage temperature: | : | min. 2 °C - max. 25 °C |
| Other data | : | Protect from direct sunlight. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Open handling

- | | | |
|--------------------------|---|---|
| Hand protection | : | Rubber gloves
Type: Chloroprene (Neoprene, CR) |
| Eye protection | : | Safety glasses (EN166) |
| Skin and body protection | : | Lightweight protective clothing |
| Hygiene measures | : | Shower or bathe at the end of working.
Wash hands before breaks and immediately after handling the product.
Thoroughly clean protective gear. |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version: 2.1
Revision Date 09.03.2010

Print Date 09.03.2010

DENAGARD 10% PREMIX

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: solid, powder
Colour	: white - cream
Odour	: slight
Minimum ignition energy	: > 30 - < 100 mJ Method: MIKE-3 Test temperature: 25 °C Remarks: with inductivity
Ignition temperature	: 320 °C Remarks: Ignition temperature of dust Method: BAM
Impact Sensitivity	: Mechanical sensitivity (shock) not shock sensitive Hit test: no detonation Method: Lütolf 5 kg at 80 cm
Dust explosion	: Minimum ignition energy: < 1 J Method: Hartmann tube : Ignition energy: 10,000 J Method: 20 l sphere St1
Thermal decomposition	: Exothermic reaction: no exothermic reaction up to 500 °C Method: Lütolf - Air open cup - dynamic - as is Heating rate: 2.5 °C/min Test temperature: 500 °C : Exothermic reaction: first exothermic reaction at 150 - 350 °C Method: Greuer - with airstream - as is Heating rate: 1.2 °C/min Test temperature: 350 °C Delta T temperature: 10 °C Size of vessel: 8 ml : Due to the thermic decomposition behaviour a self decomposition (deflagration) can be excluded.
Burning number	: 3: Local combustion or smouldering, with at most slight spreading. at 25 °C : 5: Burns like firework, or slow, steady burning with flame. at 100 °C

10. STABILITY AND REACTIVITY

Hazardous reactions	: Dust may form explosive mixture in air.
Chemical Stability	: Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 > 2,000 mg/kg Species: rat Remarks: Derived from the active ingredient(s)
Further information	: Irritating to eyes and respiratory system (human). Derived from the active ingredient(s) : Suspicion of sensitizing effects to skin and respiratory system (human). Derived from the active ingredient(s)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version: 2.1
Revision Date 09.03.2010

Print Date 09.03.2010

DENAGARD 10% PREMIX

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

- Toxicity to fish : LC50 ca. 52 mg/l
Species: *Oncorhynchus mykiss* (rainbow trout)
Remarks: Derived from the active ingredient(s)
- Toxicity to daphnia : IC50 ca. 770 mg/l
Species: *Daphnia magna* (water flea)
Remarks: Derived from the active ingredient(s)
- Toxicity to algae : Species: Algae
Remarks: No effect on maximum growth rate.
- Toxicity to soil organisms : LC50 > 1,000 mg/kg
Species: *Eisenia foetida* (earthworm)
Remarks: Derived from the active ingredient(s)

Behaviour in environmental compartments

Elimination information (persistence and degradability)

- Biodegradability : no data available

13. DISPOSAL CONSIDERATIONS

- Product : Refer to protective measures listed in sections 7 and 8. Collect material in specially marked, tightly closing containers. Dispose of in an incinerator approved for chemicals. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative.
- Contaminated packaging : Dispose of empty containers in an incinerator approved for chemicals. Damaged Containers: Place original containers in specially marked larger ones. Check possibilities of recycling large empty containers, drums and barrels.

14. TRANSPORT INFORMATION

- Transport Condition : Transport + intermediate storage ≤40°C

ADR/RID

- UN-Number : FREE
Class : Not classified as dangerous good

IMDG

- UN-Number : FREE
Class : Not classified as dangerous good

ICAO/IATA

- UN-Number : FREE
Class : Not classified as dangerous good

- Postal delivery - Switzerland : 1 allowed

15. REGULATORY INFORMATION

Labelling according to EC Directives

- Symbol(s) : Xn Harmful
- R-phrases(s) : R36/37 Irritating to eyes and respiratory system.
: R42/43 May cause sensitization by inhalation and skin contact.
- S-phrases(s) : S22 Do not breathe dust.
: S24/25 Avoid contact with skin and eyes.
: S36 Wear suitable protective clothing.

National legislation

- Weight limit (Switzerland - StFV) : 200,000 kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version: 2.1

Revision Date 09.03.2010

Print Date 09.03.2010

DENAGARD 10% PREMIX**16. OTHER INFORMATION****Text of R-phrases mentioned in Section 3**

R36/37 : Irritating to eyes and respiratory system.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
