

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078917971

N/A

**TIAMUTIN 12.5 % SOLUTION**
**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING**
**Product information**

Substance No. : 000070002048  
NAH Substance Code : A-20002 A  
Trade name : DENAGARD Solution Buvable  
Trade name : TIAMUTIN 12.5 % SOLUTION  
Denomination : Tiamulin hydrogenfumarate 12.5% Solution

**Company** : Novartis Animal Health Inc.  
P.O. Box  
CH - 4002 Basel  
Switzerland

Telephone : +41616971111

Contact person : Phone (office hours) +41 61 697 30 65

**Emergency information**

Emergency telephone number : **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. COMPOSITION/INFORMATION ON INGREDIENTS**
**Chemical nature**

CAS-No. :  
Chemical Name :  
EINECS-No. :  
IUPAC Name :  
Formula :  
Use : Antibiotic  
Formulation type : Solution vet. use  
Active ingredient : CGA 283920 Tiamulin hydrogen fumarate

**Hazardous components**

Denomination	CAS-No.	Symbol(s)	R-phrases(s) Refer to section 16. for text.	Concentration (% w/w)
Tiamulin hydrogen fumarate	55297-96-6	Xn	R36/37, R42/43	12.20
Ethanol	64-17-5	F	R11	>= 5.00 - <= 10.00

**3. HAZARDS IDENTIFICATION**
**Risk advice to man and the environment**

Health hazards : May cause sensitization by inhalation and skin contact.  
Environmental hazard in case of accident (Spillage/Leakage) : Avoid release to the environment. Refer to special instructions/Safety data sheets.

**4. FIRST AID MEASURES**

General advice : If you feel unwell, seek medical advice (show the label where possible).  
Inhalation : Not a hazard under normal use conditions.  
Skin contact : Wash off immediately with soap and plenty of water.  
Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
Ingestion : If accidentally swallowed obtain immediate medical attention. Rinse mouth, ingest activated charcoal.  
**Notes to physician**  
Poisoning Symptoms : No information available.  
Antidote : No specific antidote is known! Apply symptomatic therapy.

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**5. FIRE-FIGHTING MEASURES**

- Combustibility : yes
- Suitable extinguishing media : Dry powder, foam, carbon dioxide (CO<sub>2</sub>) or water spray (do not use water jet).
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : 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 L

**6. ACCIDENTAL RELEASE MEASURES**

- Methods for cleaning up : Pay attention to protective clothing and safety measures.  
Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc.  
Collect material in specially marked, tightly closing containers.  
Dispose of in an incinerator approved for chemicals.  
Treat contaminated surfaces with water.  
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 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

**7. HANDLING AND STORAGE**
**Handling**

- Safe handling advice : Avoid contact with skin, eyes and clothing.  
Change contaminated clothing.  
Do not eat, drink or smoke while working.  
In addition to the measures taken usually in the chemical works like splash proof filling and measuring equipment (including vapour stripping) further personal protection measures may have to be implemented to avoid possible contact with the product.

**Storage**

- Novartis storage class : 21.1
- Max. Storage temperature: : < 25 °C
- Min. Storage temperature: : -10 °C
- Other data : Store the product in closed original containers.  
Protect from light.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**
**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : gloves
- Eye protection : safety glasses
- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Heavy duty cotton or synthetic fabric working clothes (e.g. overalls).  
lab coat
- Hygiene measures : Wash hands before breaks and at the end of workday.  
Shower or bathe at the end of working.  
Change clothing.

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Revision Date 23.06.2006

according to EC directive 93/112/EC

Print Date 26.06.2006

## TIAMUTIN 12.5 % SOLUTION

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	liquid, clear, aqueous solution
Colour	:	colourless - slightly yellowish
Odour	:	alcoholic
Density	:	ca. 1.2 g/ml
pH	:	3.7 - 4.3

### 10. STABILITY AND REACTIVITY

Chemical Stability	:	Stable under normal conditions.
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### 11. TOXICOLOGICAL INFORMATION

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

### 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity effects</b>		
Toxicity to fish	:	no data available
<b>Behaviour in environmental compartments</b>		
<b>Elimination information (persistence and degradability)</b>		
Biodegradability	:	no data available

### 13. DISPOSAL CONSIDERATIONS

Product	:	Pay attention to protective clothing and safety measures. 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.

### 14. TRANSPORT INFORMATION

<b>ADR/RID</b>		
UN-No	:	FREE
Class	:	Not classified as dangerous good
<b>IMDG</b>		
UN-No	:	FREE
Class	:	Not classified as dangerous good
<b>ICAO/IATA</b>		
UN-No	:	FREE
Class	:	Not classified as dangerous good
Transport Classification	:	1 (free)
PTT CH	:	

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## TIAMUTIN 12.5 % SOLUTION

### 15. REGULATORY INFORMATION

#### labelling according to EEC Directive

Hazardous components	:	tiamulin hydrogen fumarate
Symbol(s):	:	Xn Harmful
R-phrased(s)	:	R42/43 May cause sensitization by inhalation and skin contact.
S-phrased(s)	:	S24 Avoid contact with the skin. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

#### National legislation

Weight limit (Switzerland) as prescribed by accident regulations : 200,000 kg

### 16. OTHER INFORMATION

#### R-phrased(s) (Text of R-phrases from chapter 2. (Hazardous components))

R36/37	:	Irritating to eyes and respiratory system.
R42/43	:	May cause sensitization by inhalation and skin contact.
R11	:	Highly flammable.

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