

SECTION 1 Identification**1.1. GHS Product identifier**

Product form : Mixture
Product name : Tiamulin Soluble Powder

1.2. Other means of identification

Other means of identification : Registered product - DIN 02324407

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Oral veterinary powder
Restrictions on use : For veterinary use only

1.4. Supplier's details

Bio Agri Mix LP
P.O. Box 399
Mitchell, ON, N0K 1N0
Canada
T 519-348-9865

1.5. Emergency phone number

Emergency number : CANUTEC: 1-613-996-6666 (transport)

SECTION 2 Hazard identification**2.1. Classification of the substance or mixture****Classification (GHS CA)**

Acute toxicity (oral), Category 4
Combustible dust

Harmful if swallowed.
May form combustible dust concentrations in air.

2.2. GHS label elements, including precautionary statements**GHS CA labelling**

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Warning

Hazard statements (GHS CA) : May form combustible dust concentrations in air
Harmful if swallowed

Precautionary statements (GHS CA) : Wash hands, forearms and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
IF SWALLOWED: Call a POISON CENTER or a doctor if you feel unwell.
Rinse mouth.
Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

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According to SOR/2015-17, Hazardous Products Regulations (HPR) (amended 2022)

Supplementary information : Exempt - Registered product - (DIN 02324407).

This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II).

This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%
Tiamulin hydrogen fumarate	Acetic acid, [[2-(diethylamino)ethyl]thio]-, (3aS,4R,5S,6S,8R,9S,9aR,10R)-6-ethenyldecahydro-5-hydroxy-4,6,9,10-tetramethyl-1-oxo-3a,9-propano-3aH-cyclopentacycloocten-8-yl ester, (2E)-2-butenedioate (1:1) (salt) / Tiamulin fumarate	CAS-No.: 55297-96-6	30 - 60*

*Contains fixed concentration

Comments : CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with the amended HPR as of December 2022.

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash skin with plenty of water. Obtain medical attention if irritation persists.
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation persists.
First-aid measures after ingestion	: If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth. Do not induce vomiting. If vomiting occurs have person lean forward. Never give anything by mouth to an unconscious person.
First-aid measures general	: Call a poison center or a doctor if you feel unwell. If you feel unwell, seek medical advice (show the label where possible). Medical personnel should be made aware of substance(s) involved and take measures for self protection. Show this safety data sheet to the doctor in attendance. Avoid contact with skin and eyes. Keep out of the reach of children.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation : Prolonged inhalation may be harmful.

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According to SOR/2015-17, Hazardous Products Regulations (HPR) (amended 2022)

Symptoms/effects after skin contact	: Prolonged or repeated contact may dry skin and cause irritation.
Symptoms/effects after eye contact	: Direct contact with eyes may cause temporary irritation.
Symptoms/effects after ingestion	: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Symptoms may be delayed. Treat symptomatically.
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SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Treat for surrounding material.
Unsuitable extinguishing media	: Do not use a water jet since it may cause the fire to spread.

5.2. Specific hazards arising from the chemical

Fire hazard	: May form combustible dust concentrations in air. During fire, gases hazardous to health may be formed. In case of fire or explosion do not breathe fumes.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: May include and are not limited to: oxides of carbon. Nitrogen oxides. Sulphur oxides.

5.3. Special protective actions for fire-fighters

Firefighting instructions	: In case of fire: stop leak if safe to do so. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: In the event of a significant spillage : Notify authorities if product enters sewers or public waters. Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Environmental precautions	: Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment	: Stop leaks if it can be done without personal risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica gel). Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Clean contaminated surfaces with an excess of water. Minimise generation of dust.
Other information	: This material and its container must be disposed of in a safe way, and as per local legislation.

For further information refer to section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid dust formation. Avoid contact with skin and eyes. Avoid breathing dust, fume. Do not taste or swallow. Ensure good ventilation of the work station. Wear personal protective equipment. Handle and open container with care.
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Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep out of reach of children. Store tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).
Packaging materials	: Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection:

Wear protective gloves. Confirm with a reputable supplier first.

Eye protection:

Wear safety glasses with side shields (or goggles).

Skin and body protection:

Wear suitable protective clothing. As required by employer code.

Respiratory protection:

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Powder.
Colour	: White
Odour	: Characteristic
Odour threshold	: No data available
pH	: 3.1 – 5.5
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable

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Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.
Explosive limits	: Not applicable
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Avoid dust formation. Heat. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: May include and are not limited to: oxides of carbon. Nitrogen oxides. Sulphur oxides.

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Tiamulin Soluble Powder	
ATE CA (oral)	1868.889 mg/kg bodyweight
Unknown acute toxicity (GHS CA)	Not applicable.

Tiamulin hydrogen fumarate (55297-96-6)	
ATE CA (oral)	841 mg/kg

Skin corrosion/irritation	: Not classified pH: 3.1 – 5.5
Serious eye damage/irritation	: Not classified pH: 3.1 – 5.5
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Likely routes of exposure	: Skin and eyes contact. Ingestion. Inhalation.
Symptoms/effects after inhalation	: Prolonged inhalation may be harmful.

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According to SOR/2015-17, Hazardous Products Regulations (HPR) (amended 2022)

Symptoms/effects after skin contact	: Prolonged or repeated contact may dry skin and cause irritation.
Symptoms/effects after eye contact	: Direct contact with eyes may cause temporary irritation.
Symptoms/effects after ingestion	: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

SECTION 12 Ecological information

12.1. Toxicity

Ecology - general	: See below for route-specific details.
Unknown hazards to the aquatic environment (GHS CA)	: Contains 55 % of components with unknown hazards to the aquatic environment
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

12.2. Persistence and degradability

Tiamulin Soluble Powder	
Persistence and degradability	Rapidly degradable
Tiamulin hydrogen fumarate (55297-96-6)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone	: Not classified
Fluorinated greenhouse gases	: No

SECTION 13 Disposal considerations

Waste treatment methods	: Dispose of the material collected according to regulations.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling, disposal or collection.

SECTION 14 Transport information

In accordance with TDG

TDG	
14.1. UN Number	Not applicable
14.2. UN Proper Shipping Name	Not applicable

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According to SOR/2015-17, Hazardous Products Regulations (HPR) (amended 2022)

TDG	
14.3. Transport hazard class(es)	
	Not applicable
14.4. Packing group, if applicable	
	Not applicable
14.5. Environmental hazards	
	Not applicable
No supplementary information available	

14.6. Special precautions for user

TDG
Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable

SECTION 15 Regulatory information

All components of this product are present on DSL

SECTION 16 Other Information

Issue date : 12/04/2025

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According to SOR/2015-17, Hazardous Products Regulations (HPR) (amended 2022)

Other information

: For an updated SDS, please contact the supplier or manufacturer listed on the first page of the document.

Exempt - Registered product - (DIN 02324407).

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VETERINARY USE ONLY

CAUTIONS: For use in the drinking water of swine only. This drug should not be administered to sows during 4 weeks after service. If no response is obtained within 5 days, re-establish the diagnosis. Failure of response may be related to the presence of non-susceptible organisms or other complicating disease conditions.

WARNINGS: Treated animals must not be slaughtered for use in food for at least 3 days after the latest treatment with this drug. Direct contact with skin or mucous membranes during mixing may cause irritation. When handling the product, avoid inhalation, oral exposure and direct contact with skin or eyes. Keep out of reach of children.

ADVERSE REACTIONS: Overdoses of tiamulin have sometimes produced transitory salivation, vomiting and an apparent calming effect on pigs. In rare cases, redness of the skin, primarily over the ham and underline, has been observed during medication. If signs of toxicity or redness of the skin occurs, promptly discontinue use of medicated water and provide fresh clean water for drinking.

STORAGE: Store in a dry place between 15 and 30°C.

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