



SAFETY DATA SHEET
TIA™ 12.5%
(tiamulin hydrogen fumarate) liquid concentrate

1. IDENTIFICATION

Product Name TIA™ 12.5% (tiamulin hydrogen fumarate) liquid concentrate

Recommended use of the chemical and restrictions on use

Identified uses For treatment of lung infections in swine

Restrictions on Use Federal (USA) law restricts this drug to use by or on the order of a licensed veterinarian.

Company Identification Virbac AH, Inc.
P.O. Box 162059
Fort Worth, Texas 76161

Customer Information Number (800) 338-3659

Emergency Telephone Number

CHEMTREC Number (800) 424-9300

Other Emergency Number: Human Toll-free 833-224-2009
Animal Toll-free 833-224-2013

Issue Date October 27, 2021

Supersedes Date March 9, 2020

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARD IDENTIFICATION

Hazard Classification
This product is classified as not hazardous in accordance with the Globally Harmonized System of Classification and Labelling (GHS).

Label Elements
Hazard Symbols
None
Signal Word: None

Hazard Statements
None

Precautionary Statements

Prevention

None

Response

None

Storage

None

Disposal

None

Other Hazards

None

Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	<1%
Acute dermal toxicity	10 - 20%
Acute inhalation toxicity	10 - 20%
Acute aquatic toxicity	10 - 20%



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:

This product is a mixture.

Component Name	CAS Number	Concentration
Tiamulin	55297-96-6	12.5%
Ethanol	64-17-5	5 - 15%

4. FIRST - AID MEASURES

Description of necessary first-aid measures

Eyes

Immediately flood the eye with plenty of water, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

If irritation develops wash skin thoroughly with soap and water. Obtain medical attention if redness or soreness persists.

Ingestion

Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation

Remove person to fresh air. Seek medical attention if symptoms persist.

Most important symptoms/effects, acute and delayed

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed

Notes to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Extinguishing Media

Use extinguishing media appropriate for surrounding materials.

Unusual Fire and Explosion Hazards

Can release hazardous vapors during a fire.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing.



6. ACCIDENTAL RELEASE MEASURES

Environmental Precautions

Prevent the material from entering drains or watercourses.

Methods and materials for containment and cleaning up

Wipe up and transfer into suitable containers for recovery or disposal. Prevent the material from entering drains or watercourses.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear appropriate protective clothing.

Conditions for safe storage

Store in original container. Store away from children and pets.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Ethyl Alcohol

ACGIH: 1000 ppm 15-min STEL

OSHA: PEL 1000ppm (1900 mg/m³) 8h TWA

Appropriate engineering controls

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Individual protection measures

Respiratory Protection

Not required under normal conditions of use.

Skin Protection

Gloves

Eye/Face Protection

Safety glasses

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State

Liquid

Color

Translucent pale yellow

Odor

Slight alcohol

Odor Threshold

No data available

pH

No data available

Density

No data available

Boiling Range/Point (°C/F)

No data available

Melting Point (°C/F)

No data available



9. PHYSICAL AND CHEMICAL PROPERTIES

Flash Point (PMCC) (°C/F)	Not flammable
Vapor Pressure	No data available
Evaporation Rate (BuAc=1)	No data available
Solubility in Water	Soluble
Vapor Density (Air = 1)	No data available
VOC	No data available
Partition coefficient (n-octanol/water)	Not applicable
Viscosity	Not applicable
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Upper explosive limit	No data available
Lower explosive limit	No data available
Flammability (solid, gas)	No data available

10. STABILITY AND REACTIVITY

Reactivity

Data is not available.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Heat - high temperatures

Incompatible Materials

Strong oxidizers

Hazardous Decomposition Products

Oxides of carbon

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Tiamulin

Oral LD50 (rat, f) 1830 mg/kg

Oral LD50 (rat, m) >2000 mg/kg

Ethanol

Oral LD50 (rat) 7060 mg/kg

Inhalation LC50 (rat) 117 mg/l

Specific Target Organ Toxicity (STOT) – single exposure

No relevant studies identified.



11. TOXICOLOGICAL INFORMATION

Specific Target Organ Toxicity (STOT) – repeat exposure

No relevant studies identified.

Serious Eye damage/Irritation

Ethanol: Causes severe eye irritation ($\geq 50\%$ solution).

Skin Corrosion/Irritation

No relevant studies identified.

Respiratory or Skin Sensitization

Tiamulin: In a patch study in humans, topical administration of a 0.05% formulation did not cause skin irritation or sensitisation.

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity

Tiamulin: Was found not genotoxic in laboratory studies.

Reproductive Toxicity

No relevant studies identified.

Aspiration Hazard

Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No relevant studies identified.

Mobility in soil

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bioaccumulative Potential

No relevant studies identified.

Other adverse effects

No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with all applicable local and national regulations.



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14. TRANSPORT INFORMATION

Contact supplier for transport information.

15. REGULATORY INFORMATION

United States TSCA Inventory

This product is excluded from the US EPA Toxic Substance Control Act and is regulated under the Food, Drug and Cosmetic Act.

SARA Title III Sect. 311/312 Categorization

None

SARA Title III Sect. 313

This product contains a chemical that is listed in Section 313 at or above de minimis concentrations. The following listed chemicals are present: None

16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists

BOD: Biological Oxygen Demand

CAS#: Chemical Abstracts Service Number

ECHA: European Chemicals Agency

FIFRA: Federal Insecticide, Fungicide and Rodenticide Act

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

Revision Date: October 27, 2021

Replaces: March 9, 2020

Changes made: Name Change and Disclaimer updated

Information Source and References

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.



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16. OTHER INFORMATION

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