## **SAFETY DATA SHEETS**

## This SDS packet was issued with item:

078924306

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078924307 078924308 078924309 078945974



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Ivermax® 1% (Ivermectin) Sterile Solution Injection

#### **SECTION 1: Identification**

#### Product identifier

Product name: Ivermax® 1% (Ivermectin) Sterile Solution Injection

Product code: 10818680, 12463733, 18262184, 12378158

#### Recommended use of the product and restriction on use

Relevant identified uses: : Noromectin® (ivermectin) Injection is an injectable parasiticide for cattle and swine, that effectively treats and controls the following internal and external parasites that may impair the health of cattle and swine: gastrointestinal roundworms (including inhibited Ostertagia ostertagi in cattle), lungworms, grubs, sucking lice, and mange mites of cattle; and gastrointestinal roundworms, lungworms, lice, and mange mites of swine.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

#### Manufacturer or supplier details

Supplier:

**United States** 

Aspen Veterinary Resources Ltd 3155 W. Heartland Drive Liberty, MO 64068 1-800-792-1238

### Emergency telephone number:

**United States** 

CHEMTREC

Within USA and Canada: 1-800-424-9300 (24 hours)
Outside USA and Canada: +1-703-527-3887 (24 hours)

### SECTION 2: Hazard(s) identification

## GHS classification:

Eye irritation, category 2A
Flammable liquids, category 4
Reproductive toxicity, category 2
Specific target organ toxicity - repeated exposure, category 2
Acute toxicity (oral), category 4

#### Label elements

#### Hazard pictograms:





Signal word: Warning

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#### Hazard statements:

H227 Combustible liquid

H319 Causes serious eye irritation

H361 Suspected of damaging fertility or the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

H302 Harmful if swallowed

#### Precautionary statements:

P264 Wash hands thoroughly after handling

P280 Wear protective gloves/protective clothing/eye protection/face protection

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

P201 Obtain special instructions before use

P202 Do not handle until all safety precautions have been read and understood

P260 Do not breathe dust/fume/gas/mist/vapors/spray

P270 Do not eat, drink or smoke when using this product

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists: Get medical advice/attention

P370+P378 In case of fire: Use agents recommended in section 5 to extinguish

P308+P313 IF exposed or concerned: Get medical advice/attention

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 Rinse mouth

P314 Get medical advice/attention if you feel unwell

P403+P235 Store in a well-ventilated place. Keep cool

P405 Store locked up

P501 Dispose of contents/container in accordance with local regulations.

### Hazards not otherwise classified: None

#### Supplemental label elements:

O percent of the mixture consists of ingredient(s) of unknown acute oral toxicity

#### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 57-55-6	Propane-1,2-diol	Proprietary
CAS number: 5464-28-8	1,3-dioxolan-4-ylmethanol	Proprietary
CAS number: 70288-86-7	Ivermectin	Proprietary

#### Additional Information:

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

## **SECTION 4: First aid measures**

#### Description of first aid measures

#### General notes:

Show this Safety Data Sheet to the doctor in attendance. Take precautions to ensure your own safety before attempting rescue. Wear appropriate safety eyewear, gloves, protective clothing and respiratory

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protection to prevent exposure. See Section 8 of this SDS for personal protective equipment recommendations. Do not use the mouth to mouth method if victim has ingested or inhaled the product. Give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper device.

#### After inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If experiencing respiratory symptoms, seek medical advice/attention.

#### After skin contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

#### After eye contact:

Rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention.

#### After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

## Most important symptoms and effects, both acute and delayed

#### Acute symptoms and effects:

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing. Product is combustible. Exposure to sources of ignition may cause physical injury.

Acute oral exposure may lead to dizziness, drowsiness, headache, breathing difficulties, nausea, vomiting, abdominal pain, and lowering of consciousness. Adverse effects are dependent on exposure (dose, concentration, contact time).

## Delayed symptoms and effects:

Long term exposure may affect fertility. Symptoms include, but are not limited to: menstrual problems, altered sexual behavior/fertility/ and pregnancy outcome. Long term exposure may also affect development of the unborn child. Symptoms include, but are not limited to: intrauterine growth retardation, pre-term birth, birth defects and postnatal death.

May cause damage to organs through prolonged or repeated exposure. Effects are dependent on exposure (dose, concentration, contact time).

Symptoms of exposure may be delayed.

## Immediate medical attention and special treatment

#### Specific treatment:

Skin/eye burns require immediate treatment.

## Notes for the doctor:

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## Extinguishing media

#### Suitable extinguishing media:

Dry chemical, CO2, water spray or alcohol-resistant foam.

## Unsuitable extinguishing media:

Do not use water jet.

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#### Specific hazards during fire-fighting:

Combustible liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation.

#### Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full-face piece operated in positive pressure mode.

## Special precautions:

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so.

### SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

#### **Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

#### Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for future disposal. Dispose of in accordance with all applicable regulations (see Section 13).

## Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

### SECTION 7: Handling and storage

## Precautions for safe handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges. Handle containers with caution. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal

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products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

#### Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

#### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
WEEL	Propane-1,2-diol	57-55-6	8-Hour TWA: 10 mg/m <sup>3</sup>

#### Biological limit values:

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Not determined or not applicable.

#### Appropriate engineering controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

## Personal protection equipment

#### Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

#### Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

#### Respiratory protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

## General hygienic measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

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### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Appearance	Colorless to yellow liquid
Odor	Practically odorless
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	185 °C (365 °F)
Flash point (closed cup)	81 °C (177.8 °F)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	12.6 %
Lower flammability/explosive limit	2.6 %
Vapor pressure	0.1 hPa at 20 °C (68 °F)
Vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	371 °C (699.8 °F)
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

#### Other information

## SECTION 10: Stability and reactivity

#### Reactivity:

Not reactive under recommended handling and storage conditions.

#### Chemical stability:

Stable under recommended handling and storage conditions.

#### Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

#### Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials. Vapor accumulation in low or confined areas.

### Incompatible materials:

Strong acids, strong bases, strong oxidizers.

## Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

#### **Acute toxicity**

#### Assessment:

Harmful if swallowed.

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Product data: No data available.

#### Substance data:

Name	Route	Result
Propane-1,2-diol	oral	LD50 Rat: 21000 - 33700 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
1,3-dioxolan-4-ylmethanol	oral	LD50 Mouse: 8000 mg/kg
Ivermectin	oral	LD50 Rat: 10 mg/kg
	Dermal ATE	LD50 Rat: 300 mg/kg

#### Skin corrosion/irritation

Assessment: Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

### Serious eye damage/irritation

#### Assessment:

Causes serious eye irritation.

# Product data: No data available. Substance data:

Name	Result
1,3-dioxolan-4-ylmethanol	Causes serious eye irritation.

#### Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

**Product data:** No data available.

Substance data: No data available.

#### Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

OSHA Carcinogens: Not applicable

### Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

#### Reproductive toxicity

## Assessment:

Suspected of damaging fertility or the unborn child.

## Product data:

No data available.

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#### Substance data:

Name	Result
Ivermectin	Suspected of damaging fertility or the unborn child.

### Specific target organ toxicity (single exposure)

Assessment: Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

#### Specific target organ toxicity (repeated exposure)

#### Assessment:

May cause damage to organs through prolonged or repeated exposure.

# Product data: No data available. Substance data:

Name	Result
Ivermectin	May cause damage to organs through prolonged or repeated exposure.

#### Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

Information on likely routes of exposure:

Inhalation, eye contact, ingestion and skin contact.

#### Symptoms related to the physical, chemical and toxicological characteristics:

See section 4 of this SDS.

Other information: No data available.

## SECTION 12: Ecological information

## Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

#### Substance data:

Name	Result
Propane-1,2-diol	EC50 Daphnia magna: 43500 mg/L (48 hr)
	LC50 Oncorhynchus mykiss: 40613 mg/L (96 hr)

### Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

## Substance data:

Name	Result
Propane-1,2-diol	EC50 Selenastrum capricornutum: 18100 mg/L (14 days)

### Persistence and degradability

Product data: No data available.

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#### Substance data:

Name	Result
Propane-1,2-diol	Readily biodegradable (80% degradation in 28 days).

### Bioaccumulative potential

Product data: No data available.

#### Substance data:

Name		Result
Propane-1,2	-diol	Low potential for bioaccumulation (BCF: 0.09).

### Mobility in soil

Product data: No data available.
Substance data: No data available.
Results of PBT and vPvB assessment

#### Product data:

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT. **vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

#### Substance data:

#### PBT assessment:

Propane-1,2-diol	The substance is not PBT.
vPvB assessment:	
Propane-1,2-diol	The substance is not vPvB.

Other adverse effects: No data available.

### SECTION 13: Disposal considerations

## Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### Contaminated packages:

Not determined or not applicable.

## **SECTION 14: Transport information**

## United States Transportation of dangerous goods (49 CFR DOT)

UN number	NA 1993	
UN proper shipping name	Combustible liquid, n.o.s. (1,3-dioxolan-4-ylmethanol)	
UN transport hazard class(es)	Combustible Liquid	
Packing group	III	
Environmental hazards	Marine Pollutant	
	(Ivermectin)	
Special precautions for user	None	
Passenger air/rail	60 L	
Cargo aircraft only	220 L	
Stowage category	A	

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International Maritime Dangerous Goods (IMDG)

international Maritime Dangerous Goods (IMDG)				
UN number	3082			
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Ivermectin)			
UN transport hazard class(es)	9			
Packing group	III			
Environmental hazards	None			
Special precautions for user	None			
EMS number	F-A, S-F			
Stowage category	A			
Excepted quantities	E1			
Limited quantity	5L			

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Ivermectin)
UN transport hazard class(es)	9
Packing group	III
Environmental hazards	None
Special precautions for user	None
ERG code	9L
Excepted quantities	E1
Passenger and cargo	450 L
Cargo aircraft only	450 L
Limited quantity	30 kg G

## SECTION 15: Regulatory information

## **United States regulations**

**Inventory listing (TSCA):** All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 extremely hazardous substances: None of the ingredients are listed.

SARA Section 313 toxic chemicals: None of the ingredients are listed.

**CERCLA:** None of the ingredients are listed.

**RCRA:** None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know: None of the ingredients are listed.

New Jersey Right to Know:

57-55-6	Propane-1,2-diol	Listed

New York Right to Know: None of the ingredients are listed.

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#### Pennsylvania Right to Know:

57-55-6 Propane-1,2-diol Listed
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California Proposition 65: None of the ingredients are listed.

#### SECTION 16: Other information

#### Abbreviations and Acronyms: None

#### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 2-1-0 **HMIS:** 2\*-1-0

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**Revision Notes:** 

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**End of Safety Data Sheet** 

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