

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version  
5.1

Revision Date:  
18.06.2025

SDS Number:  
4892846-00015

Date of last issue: 14.04.2025  
Date of first issue: 17.09.2019

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Pyrantel Pamoate / Moxidectin Formulation

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Veterinary product

Recommended restrictions on use : Not applicable

#### 1.3 Details of the supplier of the safety data sheet

Company : MSD  
20 Spartan Road  
1619 Spartan, South Africa

Telephone : +27119239300

E-mail address of person responsible for the SDS : EHSDATASTEWARD@msd.com

#### 1.4 Emergency telephone number

+1-908-423-6000

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Specific target organ toxicity - repeated exposure, Category 2 : H373: May cause damage to organs through prolonged or repeated exposure.  
Short-term (acute) aquatic hazard, Category 1 : H400: Very toxic to aquatic life.  
Long-term (chronic) aquatic hazard, Category 1 : H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H373 May cause damage to organs through prolonged or

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version  
5.1

Revision Date:  
18.06.2025

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4892846-00015

Date of last issue: 14.04.2025  
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repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

### Precautionary statements

#### **Prevention:**

P273 Avoid release to the environment.

#### **Response:**

P314 Get medical advice/ attention if you feel unwell.

P391 Collect spillage.

Hazardous components which must be listed on the label:

Moxidectin

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 38,3 %

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name   | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification  | Concentration<br>(% w/w) |
|---|---|---|--------------------------|
| 4,4'-methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1) | 22204-24-6<br>244-837-1                               |   | >= 30 - < 50             |
| Moxidectin  | 113507-06-5   | Acute Tox. 3; H301<br>Acute Tox. 4; H332<br>Eye Irrit. 2; H319<br>Repr. 2; H361d<br>STOT RE 1; H372<br>(Central nervous system)<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410 | >= 1 - < 2,5             |
| Ethanol#  | 64-17-5   | M-Factor (Acute aquatic toxicity):<br>10.000<br>M-Factor (Chronic aquatic toxicity):<br>10.000  | >= 0,1 - < 1             |

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version 5.1 Revision Date: 18.06.2025 SDS Number: 4892846-00015 Date of last issue: 14.04.2025 Date of first issue: 17.09.2019

|  |                           |                    |  |
|--|---------------------------|--------------------|--|
|  | 200-578-6<br>603-002-00-5 | Eye Irrit. 2; H319 |  |
|--|---------------------------|--------------------|--|

For explanation of abbreviations see section 16.

#: Voluntarily-disclosed substance

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                            |   |
|----------------------------|---|
| General advice             | : In the case of accident or if you feel unwell, seek medical advice immediately.<br>When symptoms persist or in all cases of doubt seek medical advice.  |
| Protection of first-aiders | : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).   |
| If inhaled                 | : If inhaled, remove to fresh air.<br>Get medical attention.  |
| In case of skin contact    | : In case of contact, immediately flush skin with soap and plenty of water.<br>Remove contaminated clothing and shoes.<br>Get medical attention.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse. |
| In case of eye contact     | : Flush eyes with water as a precaution.<br>Get medical attention if irritation develops and persists.  |
| If swallowed               | : If swallowed, DO NOT induce vomiting.<br>Get medical attention.<br>Rinse mouth thoroughly with water.   |

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

|       |  |
|-------|--|
| Risks | : May cause damage to organs through prolonged or repeated exposure. |
|-------|--|

### 4.3 Indication of any immediate medical attention and special treatment needed

|           |   |
|-----------|---|
| Treatment | : Treat symptomatically and supportively. |
|-----------|---|

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

|                              |  |
|------------------------------|--|
| Suitable extinguishing media | : Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
|------------------------------|--|

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version  
5.1

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18.06.2025

SDS Number:  
4892846-00015

Date of last issue: 14.04.2025  
Date of first issue: 17.09.2019

---

Unsuitable extinguishing media : None known.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NOx)  
Sulphur oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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## SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment.  
Prevent further leakage or spillage if safe to do so.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Soak up with inert absorbent material.  
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.  
Clean up remaining materials from spill with suitable absorbent.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.  
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version 5.1 Revision Date: 18.06.2025 SDS Number: 4892846-00015 Date of last issue: 14.04.2025 Date of first issue: 17.09.2019

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

|                         |  |
|-------------------------|--|
| Technical measures      | : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.  |
| Local/Total ventilation | : Use only with adequate ventilation.  |
| Advice on safe handling | : Avoid breathing vapours.<br>Do not swallow.<br>Avoid contact with eyes.<br>Avoid prolonged or repeated contact with skin.<br>Wash skin thoroughly after handling.<br>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment<br>Do not eat, drink or smoke when using this product.<br>Take care to prevent spills, waste and minimize release to the environment.  |
| Hygiene measures        | : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.<br>The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls. |

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

|   |  |
|---|--|
| Requirements for storage areas and containers | : Keep in properly labelled containers. Store in accordance with the particular national regulations.  |
| Advice on common storage                      | : Do not store with the following product types:<br>Strong oxidizing agents<br>Self-reactive substances and mixtures<br>Organic peroxides<br>Explosives<br>Gases |

### 7.3 Specific end use(s)

|                 |                     |
|-----------------|---------------------|
| Specific use(s) | : No data available |
|-----------------|---------------------|

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components | CAS-No.    | Value type (Form of exposure) | Control parameters | Basis    |
|------------|------------|-------------------------------|--------------------|----------|
| 4,4'-      | 22204-24-6 | TWA                           | 250 µg/m3 (OEB 2)  | Internal |

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version 5.1 Revision Date: 18.06.2025 SDS Number: 4892846-00015 Date of last issue: 14.04.2025 Date of first issue: 17.09.2019

|  |             |                |                            |          |
|--|-------------|----------------|----------------------------|----------|
| methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1) |             |                |                            |          |
| Moxidectin   | 113507-06-5 | TWA            | 10 µg/m3 (OEB 3)           | Internal |
|  |             | Wipe limit     | 100 µg/100 cm <sup>2</sup> | Internal |
| Ethanol  | 64-17-5     | OEL- RL STEL/C | 2.000 ppm                  | ZA OEL   |
| Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents                            |             |                |                            |          |

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

| Substance name   | End Use   | Exposure routes | Potential health effects   | Value            |
|------------------|-----------|-----------------|----------------------------|------------------|
| Glycerine        | Workers   | Inhalation      | Long-term local effects    | 56 mg/m3         |
|                  | Consumers | Ingestion       | Long-term systemic effects | 229 mg/kg bw/day |
|                  | Consumers | Inhalation      | Long-term local effects    | 33 mg/m3         |
| Propylene glycol | Workers   | Inhalation      | Long-term local effects    | 10 mg/m3         |
|                  | Workers   | Inhalation      | Long-term systemic effects | 168 mg/m3        |
|                  | Consumers | Inhalation      | Long-term local effects    | 10 mg/m3         |
|                  | Consumers | Inhalation      | Long-term systemic effects | 50 mg/m3         |
| Ethanol          | Workers   | Inhalation      | Long-term systemic effects | 380 mg/m3        |
|                  | Workers   | Skin contact    | Long-term systemic effects | 267 mg/kg bw/day |
|                  | Consumers | Inhalation      | Long-term systemic effects | 114 mg/m3        |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

| Substance name | Environmental Compartment | Value                         |
|----------------|---------------------------|-------------------------------|
| Moxidectin     | Water                     | 0,3 ng/l                      |
| Glycerine      | Fresh water               | 0,885 mg/l                    |
|                | Marine water              | 0,0885 mg/l                   |
|                | Intermittent use/release  | 8,85 mg/l                     |
|                | Sewage treatment plant    | 1000 mg/l                     |
|                | Fresh water sediment      | 3,3 mg/kg dry weight (d.w.)   |
|                | Marine sediment           | 0,33 mg/kg dry weight (d.w.)  |
|                | Soil                      | 0,141 mg/kg dry weight (d.w.) |

## Pyrantel Pamoate / Moxidectin Formulation

|                |                              |                              |   |
|----------------|------------------------------|------------------------------|---|
| Version<br>5.1 | Revision Date:<br>18.06.2025 | SDS Number:<br>4892846-00015 | Date of last issue: 14.04.2025<br>Date of first issue: 17.09.2019 |
|----------------|------------------------------|------------------------------|---|

|                  |                            |                              |
|------------------|----------------------------|------------------------------|
| Propylene glycol | Fresh water                | 260 mg/l                     |
|                  | Freshwater - intermittent  | 183 mg/l                     |
|                  | Marine water               | 26 mg/l                      |
|                  | Sewage treatment plant     | 20000 mg/l                   |
|                  | Fresh water sediment       | 572 mg/kg dry weight (d.w.)  |
|                  | Marine sediment            | 57,2 mg/kg dry weight (d.w.) |
|                  | Soil                       | 50 mg/kg dry weight (d.w.)   |
| Ethanol          | Fresh water                | 0,96 mg/l                    |
|                  | Freshwater - intermittent  | 2,75 mg/l                    |
|                  | Marine water               | 0,79 mg/l                    |
|                  | Sewage treatment plant     | 580 mg/l                     |
|                  | Fresh water sediment       | 3,6 mg/kg dry weight (d.w.)  |
|                  | Marine sediment            | 2,9 mg/kg dry weight (d.w.)  |
|                  | Soil                       | 0,63 mg/kg dry weight (d.w.) |
|                  | Oral (Secondary Poisoning) | 380 mg/kg food               |

### 8.2 Exposure controls

#### Engineering measures

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

#### Personal protective equipment

|                          |  |
|--------------------------|--|
| Eye/face protection      | : Wear safety glasses with side shields or goggles.<br>If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.<br>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. |
| Hand protection          |  |
| Material                 | : Chemical-resistant gloves  |
| Remarks                  | : Consider double gloving.   |
| Skin and body protection | : Work uniform or laboratory coat.<br>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.<br>Use appropriate degowning techniques to remove potentially contaminated clothing.                    |
| Respiratory protection   | : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.   |
| Filter type              | : Combined particulates and organic vapour type (A-P)  |

**Pyrantel Pamoate / Moxidectin Formulation**Version  
5.1Revision Date:  
18.06.2025SDS Number:  
4892846-00015Date of last issue: 14.04.2025  
Date of first issue: 17.09.2019**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|  |   |  |
|--|---|--|
| Appearance                                       | : | paste  |
| Colour   | : | yellow   |
| Odour  | : | No data available  |
| Odour Threshold                                  | : | No data available  |
| pH   | : | No data available  |
| Melting point/freezing point                     | : | No data available  |
| Initial boiling point and boiling range          | : | No data available  |
| Flash point                                      | : | Not applicable   |
| Evaporation rate                                 | : | Not applicable   |
| Flammability (solid, gas)                        | : | Not applicable   |
| Flammability (liquids)                           | : | No data available  |
| Upper explosion limit / Upper flammability limit | : | No data available  |
| Lower explosion limit / Lower flammability limit | : | No data available  |
| Vapour pressure                                  | : | Not applicable   |
| Relative vapour density                          | : | Not applicable   |
| Relative density                                 | : | No data available  |
| Density  | : | No data available  |
| Solubility(ies)                                  |   |  |
| Water solubility                                 | : | No data available  |
| Partition coefficient: n-octanol/water           | : | Not applicable   |
| Auto-ignition temperature                        | : | No data available  |
| Decomposition temperature                        | : | No data available  |
| Viscosity  |   |  |
| Viscosity, kinematic                             | : | Not applicable   |
| Explosive properties                             | : | Not explosive  |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing. |

**9.2 Other information**

|                  |   |                   |
|------------------|---|-------------------|
| Molecular weight | : | No data available |
|------------------|---|-------------------|

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version 5.1 Revision Date: 18.06.2025 SDS Number: 4892846-00015 Date of last issue: 14.04.2025 Date of first issue: 17.09.2019

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Particle size : Not applicable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

### 10.4 Conditions to avoid

Conditions to avoid : None known.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

#### Components:

#### **4,4'-methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):**

Acute oral toxicity : LD50 (Rat): > 24.000 mg/kg

LD50 (Mouse): > 24.000 mg/kg

**Pyrantel Pamoate / Moxidectin Formulation**Version  
5.1Revision Date:  
18.06.2025SDS Number:  
4892846-00015Date of last issue: 14.04.2025  
Date of first issue: 17.09.2019

LD50 (Dog): 2.000 mg/kg

**Moxidectin:**

Acute oral toxicity : LD50 (Rat): 106 mg/kg  
LD50 (Mouse): 42 - 84 mg/kg

Acute inhalation toxicity : LC50 (Rat): 3,28 mg/l  
Exposure time: 5 h  
Test atmosphere: dust/mist

LC50 (Rat): 2,87 - 4,06 mg/l  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Remarks: No significant adverse effects were reported

Acute toxicity (other routes of administration) : LD50 (Rat): 394 mg/kg  
Application Route: Intraperitoneal

LD50 (Mouse): 84 mg/kg  
Application Route: Intraperitoneal

LD50 (Rat): > 640 mg/kg  
Application Route: Subcutaneous

LD50 (Mouse): 263 mg/kg  
Application Route: Subcutaneous

**Ethanol:**

Acute oral toxicity : LD50 (Rat): 10.470 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male): 116,9 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 15.800 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Moxidectin:**

Species : Rabbit  
Result : Mild skin irritation

**Ethanol:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version 5.1 Revision Date: 18.06.2025 SDS Number: 4892846-00015 Date of last issue: 14.04.2025  
Date of first issue: 17.09.2019

---

### **Serious eye damage/eye irritation**

Not classified based on available information.

#### **Components:**

##### **Moxidectin:**

Species : Rabbit  
Result : Moderate eye irritation

##### **Ethanol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Irritation to eyes, reversing within 21 days

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Components:**

##### **Moxidectin:**

Test Type : Buehler Test  
Exposure routes : Dermal  
Species : Guinea pig  
Result : Not a skin sensitizer.

##### **Ethanol:**

Test Type : Mouse ear swelling test (MEST)  
Exposure routes : Skin contact  
Species : Mouse  
Result : negative

### **Germ cell mutagenicity**

Not classified based on available information.

#### **Components:**

##### **4,4'-methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

##### **Moxidectin:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

**Pyrantel Pamoate / Moxidectin Formulation**

|                |                              |                              |   |
|----------------|------------------------------|------------------------------|---|
| Version<br>5.1 | Revision Date:<br>18.06.2025 | SDS Number:<br>4892846-00015 | Date of last issue: 14.04.2025<br>Date of first issue: 17.09.2019 |
|----------------|------------------------------|------------------------------|---|

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Result: negative

Test Type: in vitro assay  
Test system: Escherichia coli  
Result: negative

Genotoxicity in vivo

: Test Type: Chromosomal aberration  
Species: Rat  
Cell type: Bone marrow  
Result: negative

Test Type: Unscheduled DNA synthesis (UDS) test with  
mammalian liver cells in vivo  
Species: Rat  
Cell type: Liver cells  
Result: negative

**Ethanol:**

Genotoxicity in vitro

: Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Genotoxicity in vivo

: Test Type: Mammalian erythrocyte micronucleus test (in vivo  
cytogenetic assay)  
Species: Rat  
Application Route: Ingestion  
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Components:****Moxidectin:**

Species : Mouse  
Application Route : Oral  
Exposure time : 2 Years  
NOAEL : 4,5 mg/kg body weight  
Result : negative

Species : Rat  
Application Route : Oral  
Exposure time : 2 Years  
NOAEL : 4,5 mg/kg body weight  
Result : negative

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version 5.1 Revision Date: 18.06.2025 SDS Number: 4892846-00015 Date of last issue: 14.04.2025 Date of first issue: 17.09.2019

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Species : Dog  
Application Route : Oral  
Exposure time : 1 Years  
NOAEL : 0,5 mg/kg body weight  
Result : negative

### Reproductive toxicity

Not classified based on available information.

### Components:

#### **4,4'-methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):**

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Oral  
Developmental Toxicity: NOAEL: 3.000 mg/kg body weight  
Result: No effects on fertility and early embryonic development were detected.

Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: Oral  
Developmental Toxicity: NOAEL: 1.000 mg/kg body weight  
Result: No effects on fertility and early embryonic development were detected.

### **Moxidectin:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Oral  
General Toxicity F1: LOAEL: 0,8 mg/kg body weight  
Symptoms: Reduced foetal weight, foetal mortality  
Result: No effects on fertility, Some evidence of adverse effects on development, based on animal experiments.

Test Type: Three-generation reproduction toxicity study  
Species: Rat  
Application Route: Oral  
General Toxicity F1: LOAEL: 0,8 mg/kg body weight  
Symptoms: Reduced foetal weight, foetal mortality  
Result: No effects on fertility, Some evidence of adverse effects on development, based on animal experiments.

Effects on foetal development : Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: LOAEL: 10 mg/kg body weight  
Embryo-foetal toxicity: LOAEL: 10 mg/kg body weight  
Result: Skeletal malformations  
Remarks: The effects were seen only at maternally toxic doses.

**Pyrantel Pamoate / Moxidectin Formulation**Version  
5.1Revision Date:  
18.06.2025SDS Number:  
4892846-00015Date of last issue: 14.04.2025  
Date of first issue: 17.09.2019

Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: LOAEL: 5 mg/kg body weight  
Developmental Toxicity: NOAEL: 10 mg/kg body weight  
Result: No teratogenic effects, No embryotoxic effects

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

**Ethanol:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Mouse  
Application Route: Ingestion  
Result: negative

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Components:****Moxidectin:**

Target Organs : Central nervous system  
Assessment : Causes damage to organs through prolonged or repeated exposure.

**Repeated dose toxicity****Components:****4,4'-methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):**

Species : Dog  
NOAEL : 10 mg/kg  
LOAEL : 30 mg/kg  
Application Route : Ingestion  
Exposure time : 3 d  
Remarks : No significant adverse effects were reported

Species : Dog  
NOAEL : 600 mg/kg  
Application Route : Oral  
Exposure time : 19 d  
Remarks : No significant adverse effects were reported

Species : Dog  
NOAEL : 600 mg/kg  
Application Route : Oral  
Exposure time : 30 d  
Remarks : No significant adverse effects were reported

**Pyrantel Pamoate / Moxidectin Formulation**

|                |                              |                              |   |
|----------------|------------------------------|------------------------------|---|
| Version<br>5.1 | Revision Date:<br>18.06.2025 | SDS Number:<br>4892846-00015 | Date of last issue: 14.04.2025<br>Date of first issue: 17.09.2019 |
|----------------|------------------------------|------------------------------|---|

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|                   |   |  |
|-------------------|---|--|
| Species           | : | Dog  |
| NOAEL             | : | 600 mg/kg                                    |
| Application Route | : | Oral   |
| Exposure time     | : | 90 d   |
| Remarks           | : | No significant adverse effects were reported |

**Moxidectin:**

|                   |   |                                   |
|-------------------|---|-----------------------------------|
| Species           | : | Mouse                             |
| NOAEL             | : | 3,9 mg/kg                         |
| LOAEL             | : | 15,4 mg/kg                        |
| Application Route | : | Oral                              |
| Exposure time     | : | 4 Weeks                           |
| Symptoms          | : | Tremors                           |
| Species           | : | Rat                               |
| NOAEL             | : | 3,9 mg/kg                         |
| LOAEL             | : | 7,9 mg/kg                         |
| Application Route | : | Oral                              |
| Exposure time     | : | 13 Weeks                          |
| Target Organs     | : | Central nervous system            |
| Symptoms          | : | Tremors, Salivation               |
| Species           | : | Dog                               |
| NOAEL             | : | 0,3 mg/kg                         |
| LOAEL             | : | 0,9 mg/kg                         |
| Application Route | : | Oral                              |
| Exposure time     | : | 90 Days                           |
| Target Organs     | : | Central nervous system            |
| Symptoms          | : | Tremors, Lachrymation, Salivation |
| Species           | : | Dog                               |
| NOAEL             | : | 1,15 mg/kg                        |
| Application Route | : | Oral                              |
| Exposure time     | : | 52 Weeks                          |
| Target Organs     | : | Central nervous system            |
| Symptoms          | : | Tremors, Lachrymation             |

**Ethanol:**

|                   |   |             |
|-------------------|---|-------------|
| Species           | : | Rat         |
| NOAEL             | : | 1.730 mg/kg |
| LOAEL             | : | 3.200 mg/kg |
| Application Route | : | Ingestion   |
| Exposure time     | : | 90 Days     |

**Aspiration toxicity**

Not classified based on available information.

**Experience with human exposure****Components:**

**4,4'-methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):**

**Pyrantel Pamoate / Moxidectin Formulation**

|                |                              |                              |   |
|----------------|------------------------------|------------------------------|---|
| Version<br>5.1 | Revision Date:<br>18.06.2025 | SDS Number:<br>4892846-00015 | Date of last issue: 14.04.2025<br>Date of first issue: 17.09.2019 |
|----------------|------------------------------|------------------------------|---|

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Ingestion : Symptoms: Abdominal pain, Nausea, Vomiting, Diarrhoea, Headache, Dizziness, Fever

**Moxidectin:**

Inhalation : Remarks: No human information is available.  
Skin contact : Remarks: No human information is available.  
Eye contact : Remarks: No human information is available.  
Ingestion : Remarks: No human information is available.

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**SECTION 12: Ecological information****12.1 Toxicity****Components:**

**4,4'-methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):**

**Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic effects cannot be excluded

Chronic aquatic toxicity : Toxic effects cannot be excluded

**Moxidectin:**

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,0006 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,0002 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,00003 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,087 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10.000

M-Factor (Chronic aquatic toxicity) : 10.000

**Ethanol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 14.200 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): 5.012 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic : ErC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version 5.1 Revision Date: 18.06.2025 SDS Number: 4892846-00015 Date of last issue: 14.04.2025 Date of first issue: 17.09.2019

|  |  |
|--|--|
| plants   | Exposure time: 72 h  |
|  | EC10 (Chlorella vulgaris (Fresh water algae)): 11,5 mg/l<br>Exposure time: 72 h          |
| Toxicity to microorganisms   | : EC50 (Protozoa): 5.800 mg/l<br>Exposure time: 4 h                                      |
| Toxicity to fish (Chronic toxicity)                                    | : NOEC: >= 79 mg/l<br>Exposure time: 100 d<br>Species: Oryzias latipes (Japanese medaka) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOEC: 9,6 mg/l<br>Exposure time: 9 d<br>Species: Daphnia magna (Water flea)            |

### 12.2 Persistence and degradability

#### Components:

##### **Ethanol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 84 %  
Exposure time: 20 d

### 12.3 Bioaccumulative potential

#### Components:

##### **Moxidectin:**

Partition coefficient: n-octanol/water : log Pow: 4,7

##### **Ethanol:**

Partition coefficient: n-octanol/water : log Pow: -0,35

### 12.4 Mobility in soil

#### Components:

##### **Ethanol:**

Distribution among environmental compartments : log Koc: 0,2

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version 5.1 Revision Date: 18.06.2025 SDS Number: 4892846-00015 Date of last issue: 14.04.2025 Date of first issue: 17.09.2019

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### 12.6 Other adverse effects

#### Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

|                        |  |
|------------------------|--|
| Product                | : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.<br>Do not dispose of waste into sewer. |
| Contaminated packaging | : Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>If not otherwise specified: Dispose of as unused product.  |

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## SECTION 14: Transport information

### 14.1 UN number

|      |           |
|------|-----------|
| ADN  | : UN 3077 |
| ADR  | : UN 3077 |
| RID  | : UN 3077 |
| IMDG | : UN 3077 |
| IATA | : UN 3077 |

### 14.2 UN proper shipping name

|      |  |
|------|--|
| ADN  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Moxidectin) |
| ADR  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Moxidectin) |
| RID  | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Moxidectin) |
| IMDG | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Moxidectin) |
| IATA | : Environmentally hazardous substance, solid, n.o.s.<br>(Moxidectin) |

### 14.3 Transport hazard class(es)

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version 5.1 Revision Date: 18.06.2025 SDS Number: 4892846-00015 Date of last issue: 14.04.2025  
Date of first issue: 17.09.2019

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|             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADN</b>  | :     | 9                |
| <b>ADR</b>  | :     | 9                |
| <b>RID</b>  | :     | 9                |
| <b>IMDG</b> | :     | 9                |
| <b>IATA</b> | :     | 9                |

### 14.4 Packing group

|  |   |               |
|--|---|---------------|
| <b>ADN</b>                               |   |               |
| Packing group                            | : | III           |
| Classification Code                      | : | M7            |
| Hazard Identification Number             | : | 90            |
| Labels                                   | : | 9             |
| <b>ADR</b>                               |   |               |
| Packing group                            | : | III           |
| Classification Code                      | : | M7            |
| Hazard Identification Number             | : | 90            |
| Labels                                   | : | 9             |
| Tunnel restriction code                  | : | (-)           |
| <b>RID</b>                               |   |               |
| Packing group                            | : | III           |
| Classification Code                      | : | M7            |
| Hazard Identification Number             | : | 90            |
| Labels                                   | : | 9             |
| <b>IMDG</b>                              |   |               |
| Packing group                            | : | III           |
| Labels                                   | : | 9             |
| EmS Code                                 | : | F-A, S-F      |
| <b>IATA (Cargo)</b>                      |   |               |
| Packing instruction (cargo aircraft)     | : | 956           |
| Packing instruction (LQ)                 | : | Y956          |
| Packing group                            | : | III           |
| Labels                                   | : | Miscellaneous |
| <b>IATA (Passenger)</b>                  |   |               |
| Packing instruction (passenger aircraft) | : | 956           |
| Packing instruction (LQ)                 | : | Y956          |
| Packing group                            | : | III           |
| Labels                                   | : | Miscellaneous |

### 14.5 Environmental hazards

|                           |   |     |
|---------------------------|---|-----|
| <b>ADN</b>                |   |     |
| Environmentally hazardous | : | yes |
| <b>ADR</b>                |   |     |
| Environmentally hazardous | : | yes |
| <b>RID</b>                |   |     |
| Environmentally hazardous | : | yes |

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version 5.1 Revision Date: 18.06.2025 SDS Number: 4892846-00015 Date of last issue: 14.04.2025 Date of first issue: 17.09.2019

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### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### The components of this product are reported in the following inventories:

DSL : not determined

AICS : not determined

IECSC : not determined

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

Other information : Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

#### Full text of H-Statements

H225 : Highly flammable liquid and vapour.  
H301 : Toxic if swallowed.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H361d : Suspected of damaging the unborn child.  
H372 : Causes damage to organs through prolonged or repeated exposure.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version 5.1 Revision Date: 18.06.2025 SDS Number: 4892846-00015 Date of last issue: 14.04.2025 Date of first issue: 17.09.2019

|                         |   |   |
|-------------------------|---|---|
| Aquatic Chronic         | : | Long-term (chronic) aquatic hazard  |
| Eye Irrit.              | : | Eye irritation  |
| Flam. Liq.              | : | Flammable liquids   |
| Repr.                   | : | Reproductive toxicity   |
| STOT RE                 | : | Specific target organ toxicity - repeated exposure  |
| ZA OEL                  | : | South Africa. The Regulations for Hazardous Chemical Agents, Occupational Exposure Limits               |
| ZA OEL / OEL- RL STEL/C | : | Occupational Exposure Limit Restricted limit - Short term occupational exposure limits / ceiling limits |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

|                   |      |
|-------------------|------|
| STOT RE 2         | H373 |
| Aquatic Acute 1   | H400 |
| Aquatic Chronic 1 | H410 |

### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |

# SAFETY DATA SHEET



## Pyrantel Pamoate / Moxidectin Formulation

Version  
5.1

Revision Date:  
18.06.2025

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4892846-00015

Date of last issue: 14.04.2025  
Date of first issue: 17.09.2019

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