SAFETY DATA SHEET

Advocate Ultra Chew

Section 1. Identification

Product identifier : Advocate Ultra Chew

Product code : 124000000917

Other means of identification : CA5825; CA5826; CA5827; CA5828; CA5829; Penumbra – Moxidectin / Praziquantel uncoated granules; PENUMBRA TAB 900MG NANTONG BULK; PENUMBRA TAB 900MG NANTONG BULK; PENUMBRA TAB 112.5MG NANTONG BULK; PENUMBRA TAB 112.5MG NANTONG GEN2 BULK; PENUMBRA TAB 56.25MG NANTONG BULK; PENUMBRA TAB 56.25MG NANTONG GEN2 BULK; PENUMBRA TAB 450MG NANTONG BULK; PENUMBRA TAB 450MG NANTONG GEN2 BULK; PENUMBRA TAB 225MG NANTONG BULK; PENUMBRA TAB 225MG NANTONG GEN2 BULK; PENUMBRA TABLETS; Advocate Ultra Chew for Dogs

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

Identified uses : Veterinary medicines

Uses advised against : None known.

Company Name : Elanco Australasia Pty Ltd
Level 3, 7 Eden Park Drive
Macquarie Park NSW 2113
Australia

Telephone number : 1800 995 709 (Adverse Events Local Number)

Emergency telephone number : CHEMTREC International: 00 1 703-527-3887 (24 hours)
CHEMTREC: +61 2 9037 2994 (Local)
CHEMTREC: 1800 862 115 (Freephone)

Email : elanco_sds@elancoah.com

Section 2. Hazard(s) identification

Classification of the substance or mixture : SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

GHS label elements

Hazard pictograms :

Signal word : **WARNING**

Hazard statements : **H410 - Very toxic to aquatic life with long lasting effects.**

Precautionary statements

Prevention : P273 - Avoid release to the environment.

Response : P391 - Collect spillage.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Not applicable.

Section 2. Hazard(s) identification

Other hazards which do not result in classification : May form explosible dust-air mixture if dispersed.

Section 3. Composition and ingredient information

Substance/mixture : Mixture

Ingredient name	% (w/w)	Identifiers
Cellulose	≥10 - ≤30	CAS: 9004-34-6 EC: 232-674-9
Iotilaner	≥10 - ≤30	CAS: 1369852-71-0
Pyrantel pamoate	≥10 - ≤30	CAS: 22204-24-6 EC: 244-837-1
praziquantel	≤10	CAS: 55268-74-1 EC: 259-559-6
magnesium distearate	≤3	CAS: 557-04-0 EC: 209-150-3
Sodium lauryl sulphate	<1	CAS: 151-21-3 EC: 205-788-1
moxidectin	≤0.1	CAS: 113507-06-5

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
irritation
redness

Section 4. First aid measures

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing

Skin contact : No specific data.

Ingestion : No specific data.

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

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical powder.

Unsuitable extinguishing media : Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

Specific hazards arising from the chemical : May form explosible dust-air mixture if dispersed. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides
metal oxide/oxides

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Section 6. Accidental release measures

Methods and material for containment and cleaning up

Small spill : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Large spill : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Cellulose	**Safe Work Australia (Australia, 1/2024)** TWA 8 hours: 10 mg/m³. Form: fibres. **ACGIH TLV (United States, 1/2025)** TWA 8 hours: 10 mg/m³. **EH40/2005 WELs (United Kingdom (UK), 1/2020)** STEL 15 minutes: 20 mg/m³. Form: inhalable dust. TWA 8 hours: 10 mg/m³. Form: inhalable dust. TWA 8 hours: 4 mg/m³. Form: respirable dust.
Iotilaner	**Elanco OEL (ELANCO)** TWA 8 hours: 39 µg/m³.

praziquantel magnesium distearate	**Elanco OEL (ELANCO)** TWA 8 hours: 3 mg/m³. **Safe Work Australia (Australia, 1/2024) [Stearates]** TWA 8 hours: 10 mg/m³. **ACGIH TLV (United States, 1/2025) [Stearates]** A4. TWA 8 hours: 10 mg/m³. Form: Inhalable fraction. TWA 8 hours: 3 mg/m³. Form: Respirable fraction.

Pyrantel pamoate: Control exposures to >10 to 100 ug/m³ TWA

Biological exposure indices

No exposure indices known.

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : 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.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Solid. [Tablet.]

Colour : Yellow or brown.

Odour : Not available.

Odour threshold : Not available.

pH : Not available.

Melting point/freezing point : Not available.

Boiling point or initial boiling point and boiling range : Not available.

Flash point : Not applicable.

Evaporation rate : Not available.

Flammability : Not available.

Lower and upper explosion limit/flammability limit : Not applicable.

Vapour pressure : Not available.

Relative vapour density : Not applicable.

Relative density : Not available.

Solubility(ies) : Not available.

Solubility in water : Not available.

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C (104°F)): Not available.

Flow time (ISO 2431) : Not available.

Particle characteristics

Median particle size : Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.

Incompatible materials : Reactive or incompatible with the following materials:
oxidising materials

Section 10. Stability and reactivity

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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result
Cellulose	**Rat - Oral - LD50** >5 g/kg
lotilaner	**Rat - Dermal - LD50** >2000 mg/kg **Rat - Oral - LD50** >2000 mg/kg
praziquantel	**Rat - Dermal - LD50** >2000 mg/kg **Rat - Oral - LD50** 2249 mg/kg
magnesium distearate	**Rat - Oral - LD50** >10000 mg/kg **Rat - Inhalation - LC50 Dusts and mists** >2000 mg/m³ [1 hours]
Sodium lauryl sulphate	**Rat - Oral - LD50** 1288 mg/kg **Rabbit - Dermal - LD50** >2000 mg/kg **Rat - Inhalation - LC50 Vapour** >3900 mg/m³ [1 hours]
moxidectin	**Rat - Dermal - LD50** >2000 mg/kg **Rat - Oral - LD50** 106 mg/kg **Rat - Inhalation - LC50 Dusts and mists** 3.28 mg/l [4 hours]

Conclusion/Summary[Product] : Not available.

Skin corrosion/irritation

Product/ingredient name	Result
Sodium lauryl sulphate	**Dog - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 25 mg **Guinea pig - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 25 mg **Human - Skin - Mild irritant** Duration of treatment/exposure: 2 hours Amount/concentration applied: 2 % **Human - Skin - Mild irritant** Duration of treatment/exposure: 504 hours Amount/concentration applied: 0.3 % **Human - Skin - Mild irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 0.06 % **Human - Skin - Mild irritant** Duration of treatment/exposure: 22 hours Amount/concentration applied: 10 % **Human - Skin - Mild irritant** Duration of treatment/exposure: 47 hours

Amount/concentration applied: 0.5 %
Human - Skin - Mild irritant
Duration of treatment/exposure: 18 hours
Amount/concentration applied: 2 %
Human - Skin - Mild irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 25 mg
Human - Skin - Mild irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 250 mg
Human - Skin - Moderate irritant
Duration of treatment/exposure: 48 hours
Amount/concentration applied: 3 %
Human - Skin - Moderate irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 0.1 %
Mouse - Skin - Moderate irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 25 mg
Pig - Skin - Mild irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 25 mg
Rabbit - Skin - Mild irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 50 mg
Rabbit - Skin - Moderate irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 25 mg
Rabbit - Skin - Moderate irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 250 mg
Guinea pig - Skin - Mild irritant
Duration of treatment/exposure: 336 hours
Amount/concentration applied: 25250 ppm
Guinea pig - Skin - Mild irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 25250 ppm
Guinea pig - Skin - Severe irritant
Duration of treatment/exposure: 48 hours
Amount/concentration applied: 25250 ppm
Guinea pig - Skin - Severe irritant
Duration of treatment/exposure: 72 hours
Amount/concentration applied: 25250 ppm
Human - Skin - Mild irritant
Duration of treatment/exposure: 48 hours
Amount/concentration applied: 5 %
Human - Skin - Severe irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 10 %
Rabbit - Skin - Moderate irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 5 %
Rabbit - Skin - Severe irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 2.5 %
Human - Skin - Mild irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 0.5 %
Human - Skin - Moderate irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 10 pph

Man - Skin - Mild irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 5 %
Mouse - Skin - Moderate irritant
Duration of treatment/exposure: 24 hours
Amount/concentration applied: 5 %
Mouse - Skin - Severe irritant
Duration of treatment/exposure: 4 hours
Amount/concentration applied: 1 pph
Rabbit - Skin - Mild irritant
Duration of treatment/exposure: 1 hours
Amount/concentration applied: 5 %

Conclusion/Summary[Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name	Result
Sodium lauryl sulphate	**Rabbit - Eyes - Mild irritant** Amount/concentration applied: 250 ug **Rabbit - Eyes - Moderate irritant** Duration of treatment/exposure: 24 hours Amount/concentration applied: 100 mg **Rabbit - Eyes - Moderate irritant** Amount/concentration applied: 10 mg **Rabbit - Eyes - Severe irritant** Duration of treatment/exposure: 1 hours Amount/concentration applied: 1 % **Rabbit - Eyes - Mild irritant** Duration of treatment/exposure: 1 hours Amount/concentration applied: 5 pph **Rabbit - Eyes - Severe irritant** Duration of treatment/exposure: 1 hours Amount/concentration applied: 1 %

Conclusion/Summary[Product] : Not available.

Respiratory corrosion/irritation

Not available.

Conclusion/Summary[Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary[Product] : Not available.

Respiratory

Conclusion/Summary[Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary[Product] : Not available.

Section 11. Toxicological information

Carcinogenicity

Not available.

Conclusion/Summary[Product] : Not available.

Reproductive toxicity

Not available.

Conclusion/Summary[Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
Sodium lauryl sulphate	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
moxidectin	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2

Aspiration hazard

Not available.

Information on likely routes of exposure

Not available.

Potential acute health effects

Eye contact : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
irritation
redness

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing

Skin contact : No specific data.

Ingestion : No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Section 11. Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary[Product] : Not available.

General : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
praziquantel	2249	N/A	N/A	N/A	N/A
Sodium lauryl sulphate	1288	1100	N/A	3	N/A
moxidectin	106	N/A	N/A	N/A	3.28

Section 12. Ecological information

Toxicity

Product/ingredient name	Result
lotilaner	**Acute - EC50** Algae >10.7 mg/l [72 hours] **Acute - NOEC** Algae 0.053 mg/l [72 hours] **EC50** Daphnia - *Daphnia magna* 0.805 mg/l [48 hours] **NOEC** Daphnia - *Daphnia magna* 0.22 mg/l [48 hours] **LC50** Fish - *Oncorhynchus mykiss* 0.451 mg/l [96 hours] **NOEC** Fish 0.31 mg/l [96 hours]
Pyrantel pamoate	**EC50** Daphnia - *Daphnia magna* 12.68 mg/l [48 hours] **LC50** Fish - *Danio rerio* >60.6 mg/l [96 hours]
praziquantel	**Acute - LC50 - Fresh water** Fish - Goldfish - *Carassius auratus*

Section 12. Ecological information

	29.22 mg/l [96 hours] Effect: Mortality **Acute - EC50** Crustaceans - Daphnia 35 mg/l [48 hours] **Acute - EC50** Algae 77 mg/l [72 hours]
Sodium lauryl sulphate	**Acute - LC50 - Fresh water** Fish - Carp, hawk fish - *Cirrhinus mrigala* - Larvae Age: 2 days; Size: 4.5 mm; Weight: 51 mg 590 µg/l [96 hours] Effect: Mortality **Acute - LC50 - Marine water** Crustaceans - Brine shrimp - *Artemia salina* - Adult Age: 25 days; Size: 3.5 to 4.5 mm 900 µg/l [48 hours] Effect: Mortality **Acute - EC50 - Marine water** Algae - Diatom - *Skeletonema costatum* 1200 µg/l [96 hours] Effect: Population **Chronic - NOEC - Marine water** Algae - Sea Lettuce - *Ulva fasciata* - Zoea 1.25 mg/l [96 hours] Effect: Reproduction **Chronic - NOEC - Fresh water** OECD Crustaceans - Water flea - *Pseudosida ramosa* - Neonate Age: <24 hours 1 mg/l [21 days] Effect: Reproduction **Chronic - NOEC - Fresh water** OECD Fish - Eastern mosquitofish - *Gambusia holbrooki* Weight: 0.14 g 0.8 mg/l [28 days] Effect: Enzymes
moxidectin	**EC50** Daphnia 0.000026 mg/l [48 hours] **NOEC** Daphnia 0.0000031 mg/l [21 days] **LC50** Fish - *Cyprinus carpio* 0.00011 mg/l [96 hours] **NOEC** Fish - *Pimephales promelas* - Fingerling 0.0000032 mg/l [28 days]

Conclusion/Summary[Product] : Not available.

Persistence and degradability

Not available.

Conclusion/Summary[Product] : Not available.

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Pyrantel pamoate	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Sodium lauryl sulphate moxidectin	-2.03 -	- >500	Low High

Mobility in soil

Soil/water partition coefficient : Not available.

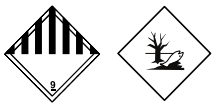
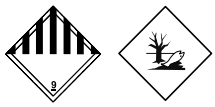
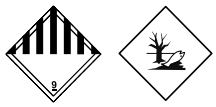
Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	ADG	ADR/RID	IMDG	IATA
UN number	UN3077	UN3077	UN3077	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lotilaner, MOXIDECTIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lotilaner, MOXIDECTIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lotilaner, MOXIDECTIN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lotilaner, MOXIDECTIN)
Transport hazard class(es)	9 	9 	9 	9 
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	Yes.

Additional information

ADG : The product is not regulated as a dangerous good when transported by road or rail in either an IBC, or in other container types if ≤500 kg. This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Section 14. Transport information

ADR/RID : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
Tunnel code (-)

IMDG : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IATA : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

National regulations

Standard for the Uniform Scheduling of Medicines and Poisons

5

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

APVMA Approval Number : 94905; 94906; 94907; 94908; 94909

Inventory list

Australia : Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 1/28/2026

Date of previous issue : No previous validation

Version : 0.01

Key to abbreviations : ADG = Australian Dangerous Goods
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

Classification	Justification
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	Calculation method Calculation method

Section 16. Any other relevant information

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

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