EQUIGEL with TAPE LONG ACTING HORSE WORMER AND BOTICIDE GEL

Abbey Animal Health Pty Ltd
SAFETY DATA SHEET

Section 1- Identification of Product and Supplier

Supplier Company Details: Abbey Animal Health Pty Ltd

Address: Unit 27/ 1 Maitland place, Norwest NSW, 2153

Telephone Number: 02 8088 0720

Facsimile Number: 02 8088 0721

Emergency Number: Australian Poisons Information Centre: 13 11 26 (24 Hour service).

PRODUCT NAME
Equigel with Tape Long-Acting Horse Wormer and Boticide Gel

PRODUCT USE
For treatment and control of Tapeworm, large strongyles, small strongyles, Pinworms, Ascarids, hairworms, Intestinal Threadworms, Stomach worms, Bots and Cutaneous onchocerciasis.

Section 2- Hazards Identification

Statement of Hazardous Nature
This product is classified as: Classified as hazardous according to the criteria of SWA.

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code criteria when transported by road or rail. Refer to Section 14.

GHS Signal word: Warning

GHS Classification:

Acute toxicity, oral- Category 4
Serious eye damage/eye irritation - Category 2A
Hazardous to the aquatic environment, acute hazard- Category 1
Hazardous to the aquatic environment, long-term hazard- Category 1

Pictogram:



HAZARD STATEMENT(S)

H302: Harmful if swallowed.
H410: Very toxic to aquatic organisms, may cause long term adverse effects in aquatic environment.
H319: Causes serious eye irritation.

PREVENTION

P264: Wash thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing. Wear eye protection/face protection.

RESPONSE

P301 + P310: IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

STORAGE

P411: Store below 30°C (Room temperature).

DISPOSAL

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3- Composition / Information on Ingredients

INGREDIENTS:

Chemical Name	**CAS No.**	**Content (%)**
Moxidectin	113507-06-5	2
Praziquantel	55268-74-1	12-13
No-hazardous Ingredients	Secret	to 100

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other nonhazardous ingredients are also present.

Section 4- First Aid Measures

Call Poisons Information Centre Phone Australia 131 126, if you feel that you may have been poisoned or irritated by this product.

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist. For breathing difficulties, oxygen
may be necessary.

Skin: Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

Eye: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses, if present and easy to do.

Ingestion: Call a physician or poison control centre immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Rinse mouth.

Personal protection for first-aid responders: IF exposed or concerned: Get medical advice/attention. For personal protection, see section 8 of the SDS. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

Symptoms caused by exposure: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage.

Advice to doctor: May cause central nervous system effects. Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

Section 5- Fire Fighting Measures

Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.
Fire and Explosion Hazards: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire Fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire Fighting: Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6 - Accidental Release Measures

Emergency Procedures: Keep unnecessary personnel away. Ensure adequate ventilation. Ventilate the contaminated area. Do not breathe mist or vapour. Avoid contact with eyes, skin, and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8 of the SDS.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Method of Containment and Clean up Procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ensure adequate ventilation. Avoid release to the environment. Prevent product from entering drains.
Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination.
Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Section 7 - Handling and Storage

Handling: Use this product with adequate ventilation. Wear appropriate personal protective equipment. Do not breathe mist or vapour. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment.

Storage: Store below 30°C (Room temperature). Do not allow material to freeze. Keep out of reach of children.

Section 8 - Exposure Controls / Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:
Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits	**TWA (mg/m3)**	**STEL (mg/m3).**
Moxidectin	70 µg/m3	N/A

The ADI for Moxidectin is set at 0.01 mg/kg/day. The corresponding NOEL is set at 1 mg/kg/b.w. The ADI for Praziquantel is set at 0.02 mg/kg/day. The corresponding NOEL is set at 20 mg/kg/b.w. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, December 2020.

***Personal Protective Equipment*:**
Eye Protection: Wear safety glasses or goggles if eye contact is possible.

Skin Protection: Wear appropriate chemical resistant gloves. Impervious gloves are recommended if skin contact with drug product is possible and for bulk processing operations. Wear suitable protective clothing. Impervious protective clothing is recommended if skin contact with drug product is possible and for bulk processing operations.

Respirator: No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment. If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.Chemical respirator with organic vapour cartridge, full facepiece, dust and mist filter.

Thermal protection: Not applicable.

Hygiene measures: Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9 - Physical and Chemical Properties

Physical state	Solid, Gel
Colour	Pale yellow- Orange Pink.
Odour	Not available
pH	Not available
Boiling point	Not available
Flash point	96.0 °C (204.8 °F) estimated
Solubility	Not available
Relative density	Not available
Evaporation rate	Not available
Melting point	Not available
Flammability	Not available
Vapour pressure	Not available
Partition coefficient	Not available
Decomposition Temp	Not available

Section 10 - Stability and Reactivity

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability: Material is stable under normal conditions.
Conditions to Avoid: Contact with incompatible materials. Keep away from heat, spark, open flames and other sources of ignition. Avoid release to the environment.
Incompatibilities: Avoid contact with oxidisers or reducing agents. Fluorine. Chlorine.
Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.
Hazardous decomposition products: Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Carbon dioxide, carbon monoxide, and oxides of nitrogen.

Section 11 - Toxicological Information

POSSIBLE ROUTES OF EXPOSURE

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Prolonged inhalation may be harmful.

Skin contact May be harmful in contact with skin. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Benzyl alcohol	**Species:** Guinea Pig	**Severity:** Moderate
Moxidectin	**Species:** Rabbit	**Severity:** Mild
Benzyl alcohol	**Species:** Rabbit	**Severity:** Minimal

Eye contact: Causes serious eye irritation.

Moxidectin	**Species:** Rabbit	**Severity:** Moderate
Benzyl alcohol	**Species:** Rabbit	**Severity:** Severe

Ingestion May be harmful if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

Symptoms related to exposure: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion and blurred vision) and/or damage.

Acute toxicity: May be harmful if swallowed.

Benzyl alcohol

ACUTE

Rabbit	Dermal	LD50	2000mg/kg
Rat	Inhalation	LC50	> 4.178 mg/l 1000 mg/l, 8 Hours
Mouse	Oral	LD50	1580 mg/kg
Rat	Oral	LD50	1230 mg/kg

Moxidectin

ACUTE

Rat	Dermal	LD50	>2000mg/kg
Rat	Oral	LD50	106 mg/kg

Moxidectin

CHRONIC

Mouse	Oral	NOEL	30 mg/kg/day, 2 years (Not carcinogenic)
Rat	Oral	NOEL	100 mg/kg/day, 2 years (Not carcinogenic)

Moxidectin

SUBACUTE

Rat	Oral	LOEL	100 mg/kg/day, 28 days (Central Nervous System)
Mouse	Oral	NOEL	75 mg/kg/day, 28 days (Central nervous system)

Moxidectin

SUBCHRONIC

Dog	Oral	NOEL	10 mg/kg/day, 90 days (Central Nervous System)
Rat	Oral	NOEL	50 mg/kg/day, 13 weeks (Central Nervous System)

Praziquantel

ACUTE

Rat	Oral	LD50	2840mg/kg

Praziquantel

CHRONIC

Hamster	Oral	LD50	2 years (Not carcinogenic)
Rat	Dermal	LD50	2 years (Not carcinogenic)

Skin corrosion/irritation: Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Corrosivity

Moxidectin	**Species:** Rabbit	**Severity:** Mild

Serious eye damage/irritation: Causes serious eye irritation.

Eye contact

Moxidectin	**Species:** Rabbit	**Severity:** Moderate
Benzyl alcohol	**Species:** Rabbit	**Severity:** Severe

Respiratory or skin sensitisation
Respiratory sensitisation Not a respiratory sensitizer.
Skin sensitisation This product is not expected to cause skin sensitisation.

Skin Sensitisation

Moxidectin	**Species:** Guinea Pig	**Severity:** Negative

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Germ cell mutagenicity
Mutagenicity

Moxidectin	In Vitro Bacterial Mutagenicity (Ames) Result: Negative Species: *Salmonella, E. coli*
	In Vitro HGPRT Forward Gene Mutation Assay Result: Negative Species: Chinese Hamster Ovary (CHO) cells

Mutagenicity

Moxidectin	In Vivo Cytogenetics Result: Negative Species: Rat Bone Marrow
	In Vivo Unscheduled DNA Synthesis Result: Negative Species: Rat Hepatocyte
Praziquantel	Mammalian Cell Mutagenicity Result: Negative Species: Not specified

Carcinogenicity: Due to partial or complete lack of data the classification is not possible.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Developmental effects

Moxidectin	1 mg/kg/day Embryo / Fetal Development, (Maternal toxicity, Not teratogenic) Result: NOEL Species: Rabbit Organ: Oral route
Praziquantel	200 mg/kg/day Prenatal & Postnatal Development, Not Teratogenic Result: NOEL Species: Rabbit Organ: No route specified
	300 mg/kg/day Prenatal & Postnatal Development, Not teratogenic Result: NOEL Species: Rat Organ: No route specified
Moxidectin	5 mg/kg/day Embryo / Fetal Development, (Negative) Result: NOEL Species: Rat Organ: Oral route
	5 mg/kg/day Embryo / Fetal Development, (Not Teratogenic, Embryotoxicity, Maternal Toxicity) Result: NOEL Species: Rat Organ: Oral route

Reproductivity

Praziquantel	8000 mg/kg/day Reproductive & Fertility, No effects at maximum dose Result: NOEL Species: Rat Organ: No route specified

Chronic effects Prolonged inhalation may be harmful.

Section 12 - Ecological Information

Ecotoxicity: Very toxic to aquatic life with long lasting effects. Avoid release to the environment.

Benzyl alcohol

Aquatic

Algae	EC50	*Pseudokirchneriella subcapitata* (Green Alga)	500mg/l,72Hours

Crustacea	EC50	Daphnia magna (Water Flea)	230mg/l,48 Hours 66mg/l,21-day(s) Toxicity for reproduction
Fish	LC50	Pimephales promelas (Fathead Minnow)	460mg/l,96Hours

Acute

Fish	LC50	Bluegill (Lepomis macrochirus)	10mg/l, 96 hours

Moxidectin

Aquatic

Algae	ErC50	Green algae (Selenastrum capricornutum)	> 87 ppb, 72Hours
Crustacea	EC50	Daphnia magna (Water Flea)	30 ppt, 48 Hours
Fish	LC50	Lepomis macrochirus (Bluegill Sunfish)	0.62 ppb, 96 Hours
		Oncorhynchus mykiss (rainbow trout)	0.16 ppb, 96 Hours

Persistence and degradability: No data is available on the degradability of this product. The active ingredient in this formulation is
expected to bind to soil or sediment.

Biodegradability

Percent Degradation (Aerobic Biodegradation)

Benzyl alcohol	92 - 96 %
	Test Duration: 28 days

Bioaccumulative potential See below

Partition coefficient	**n-octanol / water (log Kow)**
Benzyl alcohol	1.1
Moxidectin	4.77

Mobility in soil: The active ingredient in this formulation is expected to bind to soil or sediment.

Adsorption

Soil/Sediment Sorption - Log Koc

Moxidectin	4.3 - 4.6

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13 - Disposal Considerations

Disposal: Avoid release to the environment. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural wastewater and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater. Dispose of contents/container in accordance with local/regional/national/international regulations.

Residual waste: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging: Since emptied containers may retain product residue, follow label warnings even after the container is emptied.

Section 14 - Transport Information

No specific transport considerations apply since *Equigel with Tape Long-Acting Horse Wormer and Boticide Gel* is NOT classified as a dangerous good according to Australian Dangerous Goods (ADG) Code.

Additional 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.
Hazard identification number 90
Limited quantity 5 L

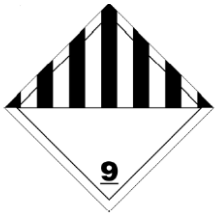
IMDG: This product is NOT regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

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.

RID
UN NO.: 3082
UN proper shipping name: Environmentally Hazardous Substance, Liquid, NOS (Moxidectin)
Class & Subsidiary Risk: 9
Packaging Group: III
Environmental hazards: yes

IATA
UN NO.: 3077
UN proper shipping name: Environmentally Hazardous Substance, Liquid, NOS (Moxidectin and Benzyl Alcohol)
Class & Subsidiary Risk: 9
Packaging Group: III
Environmental hazards: yes

IMDG
UN NO.: 3077
UN proper shipping name: Environmentally hazardous substances, solid, n.o.s. (Moxidectin) MARINE POLLUTANT (Moxidectin, Benzyl Alcohol)
Class & Subsidiary Risk: 9
Packaging Group: III
Marine Pollutant: yes
IATA; IMDG; RID



Marine Pollutant:



Section 15 - Regulatory Information

Poisons Schedule: *S5*

APVMA Approval Number: *86613*

Approved pack size: *11.8 g,14.4 g*

For more information please refer to the APVMA approved product label

Section 16 – Other Information

Abbey Animal Health Pty Ltd
Telephone Number: 02 8088 0720
Facsimile Number: 02 8088 0721

Emergency Number: Australian Poisons Information Centre: 13 11 26 (24 Hour service).

This Safety Data Sheet (SDS) summarizes our best knowledge of the health and safety hazard information of the product according to the GHS requirements and how to safely handle and use the product in the workplace.

Each user must review this SDS in the context of how the product will be handled and used in the workplace.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

***Note: This SDS is valid for 5 years from the effective date.**