

ISSUED: 26 August 2019

SAFETY DATA SHEET**Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY**

Product Name:	Promectin Plus Mini Allwormer Paste for Horses (300 kg – 600 kg) Promectin Plus Mini Allwormer Paste for Foals and Ponies (150 kg – 300 kg)
Product Identifier:	Oral anthelmintic paste for horses, ponies and foals containing 23.8% praziquantel and 1.9% ivermectin.
Product Code:	503750 (6.3 g product for horses) 503755 (3.15 g product for foals and ponies)
Recommended Use:	Small volume oral paste for the treatment of ivermectin or praziquantel susceptible roundworms and tapeworms in horses.
Restrictions on Use:	For animal treatment only.
Company Identification:	Jurox Pty Limited
Address:	85 Gardiner Street, Rutherford, NSW 2320, Australia
Email:	customerservice@jurox.com.au
Customer Centre:	1800 023 312
National Poisons Information Centre:	13 11 26 (24 hours)
Emergency Telephone Number:	1800 023 312 (9am – 5pm, Monday to Friday)

Section 2: HAZARDS IDENTIFICATION

Hazard Classifications: This product has been assessed according to GHS and is classified as follows:

GHS Category	Hazard code	Hazard Statement
Acute Toxicity (Oral): Category 4	H302	Harmful if swallowed
Skin Sensitization: Category 1	H317	May cause an allergic skin reaction
Reproductive Toxicity: Effects on or via Lactation	H362	May cause harm to breast-fed children
Specific Target Organ Toxicity (Single Exposure): Category 2	H371	May cause damage to organs
Chronic Aquatic Hazard: Category 1	H410	Very toxic to aquatic life with long lasting effects

Signal word: WARNING

GHS Pictograms:



Exclamation
mark



Health
hazard



Environment

Precautionary statements:Prevention

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use
P201	Obtain special instructions before use.
P260	Do not breathe vapours.
P263	Avoid contact during pregnancy and while nursing.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves.

Response

P301 + P312	IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P330	Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P308 + P311	IF exposed or concerned: Call a POISON CENTRE/doctor.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.

Storage

P405	Store locked up.
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Disposal

P501	Dispose of contents / container in accordance with label directions.
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N.B.: The above statements are determined by Work Health and Safety regulations and may not reflect Signal Headings and First Aid and Safety statements on product labelling, which are determined by a competent authority during assessment for registration.

Other hazards: None known.

Section 3: COMPOSITION / INFORMATION on INGREDIENTS

INGREDIENT	CAS No.	CONTENT
Praziquantel	55268-74-1	23.8%
Ivermectin	70288-86-7	1.9%
Benzyl alcohol	100-51-6	4%
Ingredients not contributing to the hazards	-	> 70%

Section 4: FIRST AID MEASURES

General Information: Consult the National Poisons Centre on 13 11 26 or a doctor immediately in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If medical advice/attention is needed, have this SDS, product container or label at hand.

Symptoms and Effects of Exposure: In humans, exposure to ivermectin has caused fever, rash, lymph node pain or swelling, dilated pupils, sedation, vomiting, tremors, drowsiness, depressed motor activity, slowed breathing, anorexia and incoordination.

Inhalation: If fumes or combustion products are inhaled remove from contaminated area. If respiratory symptoms occur, remove patient to fresh air. Lay patient down and keep warm and rested. If breathing is

shallow or has stopped, ensure airway is clear and apply resuscitation. If breathing is difficult, give oxygen and seek medical assistance immediately.

Ingestion: IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the meantime, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. If medical attention is not available on the worksite or surroundings send the patient to hospital together with a copy of the SDS. **Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:** INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Wear a protective glove when inducing vomiting by mechanical means.

Skin: If skin contact occurs: Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.

Eye: If eye contact occurs: Immediately flush the eye continuously with running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Continue flushing for at least 20 minutes. If eye irritation persists, get medical advice/attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

Recommended First Aid Facilities: Ready access to running water and soap is required. Accessible eyewash is required.

Advice to Doctor: Treat symptomatically. Toxicity following accidental ingestion of ivermectin can be minimised by inducing vomiting within one half-hour of exposure. Since ivermectin is believed to bind to glutamate-gated chloride ion channels, it is probably wise to avoid drugs that also interact with other ligand-gated chloride channels, including those that enhance GABA activity in patients with potentially toxic ivermectin exposure.

Section 5: FIRE FIGHTING MEASURES

Flash Point: No data for mixture.

Hazardous Combustion Products: If involved in a fire, may emit noxious and irritant fumes.

Extinguishing Media: Foam, dry chemical powder, BCF (where regulations permit), carbon dioxide and water spray or fog (large fires only). Use extinguishing media suitable for surrounding area.

Protective Equipment: Full body protective clothing and breathing apparatus.

HAZCHEM Code: 2X.

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Wear gloves and appropriate protective clothing. Avoid breathing vapours and contact with skin and eyes. For small spills, clean up spilled product using dry clean up procedures, then wipe area and put empty container in garbage. For large spills, clear area of personnel and move upwind. Alert Fire Brigade and tell them of location and nature of hazard. Wear full body protective clothing with breathing apparatus. Stop leak if safe to do so. Contain spill with sand, earth or vermiculite.

Protective Clothing: For appropriate personal protective equipment see section 8.

Environmental Precautions: Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

Section 7: HANDLING AND STORAGE

Handling: Handle this product with care to avoid exposure, taking all recommended precautions. Avoid contact with skin, eyes and inhalation of vapours. Use personal protective equipment as required. Use in a well-ventilated area. Do not eat, drink or smoke while handling product. Do not allow children to play with paste or used containers. Avoid contact when breast-feeding.

Storage: Keep out of reach of children. Store below 30°C (room temperature), locked up, in securely sealed, original containers, away from the light and in a dry, well-ventilated area.

Other Information: Avoid contact with incompatible substances as listed in Section 10. Always read the label before use.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

This SDS describes personal protective measures relating to long term industrial and manufacturing exposure and emergency situations, such as accidents and spills. See product label for personal protective measures during normal use of the marketed product.

Exposure Limits: No exposure limits have been assigned for this product or its ingredients.

Engineering Controls: Handle in a well-ventilated area. Ensure that the work environment remains clean.

Personal Protective Equipment (PPE):

Eye protection: Protective glasses or chemical goggles are recommended when handling bulk quantities of this product. An eye wash unit should be at hand.

Skin protection: When handling bulk product, prevent skin contact by wearing chemical protective gloves e.g. PVC.

Respiratory protection: Not required for the normal use of this product.

Other: For quantities up to 500 g a laboratory coat may be suitable. For quantities up to 1 kg a disposable laboratory coat or coverall of low permeability is recommended. Coveralls should be buttoned at collar and cuffs. For quantities over 1 kg and manufacturing operations, wear disposable coverall of low permeability and disposable shoe covers.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White paste	Upper flammability limits:	Not available
Odour:	Not available	Vapour Pressure:	Not available
Odour threshold:	Not available	Vapour density:	Not available
pH:	Not available	Relative density:	Not applicable
Melting Point:	Not applicable	Specific Gravity:	Not available
Boiling Point:	Not available	Solubility in Water:	Miscible with water
Flash Point:	Not available	Partition coefficient:	Not available
Evaporation Rate:	Not available	Auto-ignition temperature:	Not available
Flammability:	Not flammable	Decomposition temperature:	Not available
Lower flammability limits:	Not available	Viscosity:	Not available

Section 10: STABILITY AND REACTIVITY

Reactivity: This product is unlikely to react or polymerise under normal storage conditions.

Stability: When stored appropriately this product should show no significant degradation within the expiry period shown on the label.

Conditions to Avoid: Extreme temperatures.

Incompatible Materials: Oxidising agents.

Hazardous Decomposition Products: Decomposes on heating and may produce fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other pyrolysis products typical of burning organic material.

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Ingestion: No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Acute Toxicity (Oral) Category 4**. Severely toxic effects may result from the accidental ingestion of ivermectin. Animal experiments indicate that ingestion of less than 5 g may be fatal or may produce serious damage to the health of the individual.

Praziquantel : Oral LD₅₀ : 2840 mg/kg (rat), 1050 mg/kg (rabbit), 200 mg/kg (dog) ;

Ivermectin : Oral LD₅₀ : 11.6 mg/kg (mouse), 10 mg/kg (rat), 80 mg/kg (dog) ;

Benzyl alcohol : Oral LD₅₀ : 1040 mg/kg (rabbit), 1230 mg/kg (rat), 1360 mg/kg (mouse).

Inhalation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the inhalation route. Inhalation of vapours generated by the material during the course of normal handling may be damaging to the health of the individual. Animal testing has shown that inhalation of ivermectin can cause short-lived irritation of the mucous membranes.

Praziquantel: No data;

Ivermectin: No data;

Benzyl alcohol: Inhalation LCLo: 1000 ppm/8h (rat).

Dermal: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be acutely toxic by the dermal route.

Praziquantel: No data;

Ivermectin: Dermal LD₅₀: 406 mg/kg (rabbit);

Benzyl alcohol: Dermal LD₅₀: 2000 mg/kg (rabbit).

Skin Corrosion / Irritation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not thought to cause skin corrosion or irritation.

Serious Eye Damage / Irritation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not thought to cause serious eye damage or irritation.

Respiratory or Skin Sensitisation: No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Skin Sensitiser: Category 1**. There is some evidence that benzyl alcohol may be harmful, causing moderate inflammation of the skin following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering.

Germ Cell Mutagenicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be mutagenic.

Carcinogenicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be carcinogenic.

Reproductive Toxicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Reproductive Toxicity: Effects on or via Lactation**. Results of animal studies demonstrate that teratogenic effects are evident only at dose levels similar to those causing severe toxic

effects in pregnant animals. Results of a cross-fostering study indicated that the neonatal toxicity was not related to in utero exposure but to postnatal exposure via maternal milk.

STOT: Single exposure: No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as a **Specific Target Organ Toxicant (Single Exposure): Category 2**. Studies in animals and cases of ingestion in humans have shown that orally administered ivermectin can elicit dose-dependent CNS effects, including drowsiness, incoordination, slowed breathing, vomiting, dilated pupils, sedation and tremors.

STOT: Repeat exposure: No data for the mixture is available. Based on available data for the ingredients, the mixture is not classified as a specific target organ toxicant after repeat exposure. Animal testing has shown that chronic ivermectin exposure causes changes in the spleen, bone marrow and kidneys.

Aspiration Hazard: No data available.

Narcotic Effects: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to have any narcotic effects.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: No data for the mixture is available. Based on available data for the ingredients, the mixture is considered to be a **Chronic Aquatic Hazard: Category 1**.

Fish

Praziquantel: No data;
 Ivermectin: BCF (672h): 0.000099 mg/L;
 Benzyl alcohol: LC₅₀ (96h): 10 mg/L.

Crustacea

Praziquantel: No data;
 Ivermectin: NOEC (96h): 2.6 mg/L;
 Benzyl alcohol: No data.

Algae and other aquatic plants

No data

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Praziquantel	No data	No data	No data	No data
Ivermectin	No data	No data	No data	No data
Benzyl alcohol	LOW	LOW	LOW (logKOW = 1.1)	LOW (KOC = 15.66)

Section 13: DISPOSAL INFORMATION

Product Disposal: Dispose of product only by using according to label or at an approved landfill.

Container Disposal: Crush or puncture and bury in an approved landfill if an approved recycling system is not available.

Section 14: TRANSPORT INFORMATION

Dangerous Goods Classification: Not regulated as a dangerous good for road or rail transport within Australia as per Section 3.3.3 of the Australian Dangerous Goods Code. Regulated as follows when transported by sea or air freight and if transported internationally.

RID / ADR

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IVERMECTIN)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IVERMECTIN)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IVERMECTIN)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

General Information: IMDG Regulated Marine Pollutant. As of January 1, 2015, materials offered for transport that are classified for transportation only as Marine Pollutants and which are packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are NOT subject to ICAO/IATA, IMDG, or ADR transport regulations provided the general packaging requirements of those regulations are met. Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375.

Section 15: REGULATORY INFORMATION

Poison Schedule (SUSMP): S5

APVMA No.: 62378 (Promectin Plus Mini Allwormer Paste for Horses (300 kg – 600 kg));
64400 (Promectin Plus Mini Allwormer Paste for Foals and Ponies (150 kg – 300 kg)).

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Section 16: OTHER INFORMATION

This information is based on data believed by Jurox Pty Limited to be accurate at the time of writing but is subject to change without notice. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness otherwise and no assumption of liability from howsoever arising is made by Jurox Pty Limited by reason of the provision of this information. Every person dealing with the materials referred to herein does so at his/her own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Legend:

ADR	International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances.
APVMA	Australian Pesticides and Veterinary Medicines Authority.
BCF	Bioconcentration factor. The ratio of the concentration of a substance in an aquatic organism to the concentration of the substance in the surrounding water.
BCF (extinguisher)	Bromochlorodifluoromethane.
CAS No.	Chemical Abstracts Service Registry Number.
CNS	Central Nervous System.
GABA	Gamma-aminobutyric acid.
GHS	Globally Harmonized System of Classification and Labelling of Chemicals.
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters.
IATA	International Air Transport Association.
IMDG	International Maritime Dangerous Goods.
IMSBC	International maritime Solid Bulk Cargoes.
KOC	Soil-Water Partition Coefficient. The ratio of a chemical's concentration that is adsorbed in the soil to the concentration of chemical in solution.
KOW	Octanol Water Partition Coefficient. The ratio of a compound's concentration in a known volume of n-octanol to its concentration in a known volume of water after the octanol and water have reached equilibrium.
LC₅₀	The median lethal concentration, being a statistically derived concentration of a substance that can be expected to cause death in 50% of animals.
LD₅₀	The median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
LCLo	The lowest concentration of a chemical, given over a period of time, that results in the fatality of an individual animal.
NICNAS	National Industrial Chemicals Notification and Assessment Scheme.
NOEC	No-observable-effect-concentration.
N.O.S.	Not otherwise specified.
PPE	Personal Protective Equipment.
PVC	Polyvinyl chloride.
RID	International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet.
STOT	Specific Target Organ Toxicity.
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons.
SWA	Safe Work Australia.

References:

ChemID Plus

Chemwatch

EPA New Zealand Chemical Classification and Information Database (CCID)

HSDB (Hazardous Substances Data Bank)

This version issued: 12 August 2019 and is valid for 5 years from this date.**Supersedes:** This SDS supersedes the version issued on 17 December 2018.**Revision History:**

Date of Revision	Reason
16 February 2016	Classification of substance to GHS classification and update of SDS to comply with SWA Code of Practice.
17 December 2018	Added product identifier and updated email address in section 1. Updated sections 2, 3, 4, 5, 6, 7, 8, 11, 12 and 13. Additions made to the legend.
26 August 2019	Update to Dangerous Goods classification. Minor formatting updates.

END OF SDS