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**SAFETY DATA SHEET**

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**Section 1: IDENTIFICATION of CHEMICAL PRODUCT and COMPANY**

<b>Product Name:</b>	<b>Paramectin Oral Mineralised Drench for Sheep</b>
<b>Product Code:</b>	503775 (15 L), 503150 (20 L)
<b>Recommended Use:</b>	An oral drench for the treatment and control of internal and external parasites of sheep. Also provides temporary relief from minor mineral deficiencies.
<b>Restrictions on Use:</b>	For animal treatment only.
<b>Company Identification:</b>	Jurox Pty Limited
<b>Address:</b>	85 Gardiner Street, Rutherford, NSW 2320, Australia
<b>Email:</b>	jenq@jurox.com.au
<b>Customer Centre:</b>	1800 023 312
<b>National Poisons Information Centre:</b>	13 1126 (Australia-wide)
<b>Emergency Telephone Number:</b>	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
Acute Toxicity (Inhalation) Category 4	H332	Harmful if inhaled
Skin Sensitizer Category 1	H317	May cause an allergic skin reaction

**Signal word: WARNING**

**GHS Pictograms:**



Exclamation mark

**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.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P261 Avoid breathing vapours/spray.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

#### Response

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

P330 Rinse mouth.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

#### Disposal

Triple rinse empty container. Do not dispose of undiluted chemicals on-site. If recycling, replace cap and return clean container to point of supply. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

### Section 3: COMPOSITION / INFORMATION on INGREDIENTS

INGREDIENT	CAS No.	CONTENT
Benzyl alcohol	100-51-6	3%
Disodium copper EDTA	14025-15-1	1.5%
Disodium zinc EDTA	14025-21-9	0.4%
Disodium cobalt EDTA	15137-09-4	0.15%
Ethylenediamine dihydroiodide	5700-49-2	0.125%
Sodium selenate	13410-01-0	0.12%
Abamectin	71751-41-2	0.1%
Ingredients not contributing to the hazards	-	30 – 40%
Water	7732-18-5	50 – 60%

### Section 4: FIRST AID MEASURES

**General Information:** 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:** None known.

**Inhalation:** If fumes, aerosols 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 do NOT induce vomiting. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Observe the patient carefully.

**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.

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

**Advice to Doctor:** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

**Flash Point:** No data.

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

**Extinguishing Media:** There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.

**Protective Equipment:** Protective gloves and breathing apparatus.

**HAZCHEM Code:** None specified.

## Section 6: ACCIDENTAL RELEASE MEASURES

**Spills and Disposal:** Wear gloves and appropriate protective clothing. For small spills, clean up spilled product then wipe area and put empty container in garbage. For large spills, exclude non-essential people from the area. Prevent spillage from entering drains or water courses and call emergency services.

**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 to avoid exposure, taking all recommended precautions. Avoid contact with skin, eyes and inhalation of vapours. Use personal protective equipment as required. Do not eat, drink or smoke while handling product.

**Storage:** Keep out of reach of children. Store below 30°C, in original container, away from direct sunlight and away from foodstuffs.

**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. Known exposure limits for ingredients are as follows:

INGREDIENT	Source	TWA	STEL
Sodium selenate	Australian Exposure Standards	0.1 mg/m <sup>3</sup>	Not available

INGREDIENT	TEEL-1	TEEL-2	TEEL-3
Benzyl alcohol	30 ppm	49 ppm	49 ppm
Sodium selenate	0.48 mg/m <sup>3</sup>	1.6 mg/m <sup>3</sup>	1.6 mg/m <sup>3</sup>

The ADI for abamectin has been set at 0.0001 mg/kg.

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

**Personal Protective Equipment (PPE):**

Eye protection: Protective glasses or goggles are recommended when handling bulk quantities of this product.

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.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear dark blue liquid	<b>Lower flammability limits:</b>	Not available
<b>Odour:</b>	Not available	<b>Vapour Pressure:</b>	Not available
<b>Odour threshold:</b>	Not available	<b>Vapour density:</b>	Not available
<b>pH:</b>	5.5 – 6.5	<b>Relative density:</b>	Not applicable
<b>Melting Point:</b>	Not applicable	<b>Specific Gravity:</b>	1.04 – 1.05
<b>Boiling Point:</b>	Not available	<b>Solubility in Water:</b>	Miscible
<b>Flash Point:</b>	Not available	<b>Partition coefficient:</b>	Not available
<b>Evaporation Rate:</b>	Not available	<b>Auto-ignition temperature:</b>	Not available
<b>Flammability:</b>	Not flammable	<b>Decomposition temperature:</b>	Not available
<b>Upper flammability limits:</b>	Not available	<b>Viscosity:</b>	Not applicable

### 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:** No data available.

### Section 11: TOXICOLOGICAL INFORMATION

**Acute Toxicity:**

**Ingestion:** No data for the mixture is available. Based on available data for the ingredients, the mixture has a classification of **Acute Toxicity (Oral) Category 4**.

Benzyl alcohol	Oral (rabbit) LD <sub>50</sub> : 1040 mg/kg
Disodium copper EDTA	Oral (rat) LD <sub>50</sub> : 890 mg/kg
Disodium zinc EDTA	Oral (rat) LD <sub>50</sub> : 1750 mg/kg
Disodium cobalt EDTA	Oral (rat) LD <sub>50</sub> : >6671 mg/kg
Ethylenediamine dihydroiodide	Oral (mouse) LD <sub>50</sub> : 1620 mg/kg
Sodium selenate	Oral (rat) LD <sub>50</sub> : 1.6 mg/kg
Abamectin	Oral (rat) LD <sub>50</sub> : 1.5 mg/kg Oral (monkey) LD <sub>50</sub> : 17 mg/kg

**Inhalation:** No data for the mixture is available. Based on available data for the ingredients, the mixture has a classification of **Acute Toxicity (Inhalation) Category 4**.

Benzyl alcohol	Inhalation (rat) LCLo: 1000ppm/8H
Disodium copper EDTA	No data
Disodium zinc EDTA	No data
Disodium cobalt EDTA	No data
Ethylenediamine dihydroiodide	No data
Sodium selenate	No data
Abamectin	Inhalation (rat) LC <sub>50</sub> : 1.1 mg/L/4h

**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.

Benzyl alcohol	Dermal (rabbit) LD <sub>50</sub> : 2000 mg/kg
Disodium copper EDTA	No data
Disodium zinc EDTA	No data
Disodium cobalt EDTA	No data
Ethylenediamine dihydroiodide	No data
Sodium selenate	No data
Abamectin	LD <sub>50</sub> : > 330 mg/kg

**Skin Corrosion / Irritation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a skin irritant.

**Serious Eye Damage / Irritation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be an eye irritant.

**Respiratory or Skin Sensitisation:** No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Skin Sensitizer Category 1**. Copper salts may cause irritation to the skin, itching, erythema and an allergic contact dermatitis.

**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 not considered to be a reproductive toxicant.

**STOT: Single exposure:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a specific target organ toxicant after single exposure.

**STOT: Repeat exposure:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a specific target organ toxicant after repeat exposure.

**Aspiration hazard:** No data available.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be ecotoxic. However, abamectin is very toxic to bees and very toxic to aquatic life with long lasting effects. DO NOT discharge into sewer or waterways.

### Fish

Benzyl alcohol: LC<sub>50</sub> (96h): 10 mg/L;  
Disodium copper EDTA: LC<sub>50</sub> (96h): > 100 mg/L;  
Disodium zinc EDTA: LC<sub>50</sub> (96h): 41mg/L;  
Disodium cobalt EDTA: No data;  
Ethylenediamine dihydroiodide: No data;  
Sodium selenate: LC<sub>50</sub> (96h): 0.69 mg/L;  
Abamectin: LC<sub>50</sub> (96h): 0.0036 mg/L, LOEC = 0.0000093 mg/L.

### Crustacea

Benzyl alcohol: EC<sub>50</sub> (48h): 230 mg/L;  
Disodium copper EDTA: EC<sub>50</sub> (48h): 100.9 mg/L;  
Disodium zinc EDTA: EC<sub>50</sub> (24h): 16mg/L; EC<sub>50</sub> (48h): 100.9 mg/L;  
Disodium cobalt EDTA: No data;  
Ethylenediamine dihydroiodide: EC<sub>50</sub> (48h): 0.17 mg/L;  
Sodium selenate: EC<sub>50</sub> (48h): 0.08 mg/L;  
Abamectin: EC<sub>50</sub> (48h): 0.00034 mg/L

### Algae and other aquatic plants

Benzyl alcohol: EC<sub>50</sub> (72h): 500 mg/L;  
Disodium copper EDTA: EC<sub>50</sub> (72h): 2.8 mg/L, EC<sub>50</sub> (96h): 9.6 mg/L, NOEC (72h): 0.4 mg/L;  
Disodium zinc EDTA: EC<sub>50</sub> (72h): 2.8 mg/L, NOEC (72h): 0.4 mg/L;  
Disodium cobalt EDTA: No data;  
Ethylenediamine dihydroiodide: No data;  
Sodium selenate: EC<sub>50</sub> (96h): 0.2 mg/L;  
Abamectin: EC<sub>50</sub> (96h): 7.3 mg/L.

### Bees

Abamectin: LD<sub>50</sub> (bee): 0.002 ug/bee.

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Benzyl alcohol	No data	No data	LOW	No data
Disodium copper EDTA	HIGH	HIGH	LOW (LogKOW = -10.2)	LOW (KOC = 465.2)
Disodium zinc EDTA	No data	No data	No data	No data
Disodium cobalt EDTA	No data	No data	No data	No data
Ethylenediamine dihydroiodide	No data	No data	No data	No data
Sodium selenate	HIGH	HIGH	LOW (LogKOW = -3.1818)	LOW (KOC = 48.64)
Abamectin	No data	No data	No data	No data

### 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 considered a Dangerous Good for land, sea and air transport.

### Section 15: REGULATORY INFORMATION

**Poison Schedule (SUSMP):** S5

**APVMA No.:** 56043

**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:**

<b>AICS</b>	Australian Inventory of Chemical Substances.
<b>CAS No.</b>	Chemical Abstracts Service Registry Number.
<b>GHS</b>	Globally Harmonized System of Classification and Labelling of Chemicals.
<b>Hazchem Code</b>	Emergency action code of numbers and letters that provide information to emergency services especially firefighters.
<b>EC<sub>50</sub></b>	The median effect concentration, being a statistically derived concentration of a substance that can be expected to cause an adverse reaction in 50% of organisms or a 50% reduction in growth or in the growth rate of organisms.
<b>LC<sub>50</sub></b>	The median lethal concentration, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
<b>LD<sub>50</sub></b>	The median lethal dose, being a statistically derived single dose of a substance that can be expected to cause death in 50% of animals.
<b>LCLo</b>	Lethal Concentration Low. The lowest concentration of a material in air reported to have caused the death of animals or humans.
<b>LOEC</b>	Lowest Observed Effect Concentration.
<b>NICNAS</b>	National Industrial Chemicals Notification and Assessment Scheme.
<b>NOEC</b>	No-observable-effect-concentration.
<b>PPE</b>	Personal Protective Equipment.
<b>PVC</b>	Polyvinyl chloride.
<b>SDS</b>	Safety Data Sheet.
<b>STEL</b>	Short-term exposure limit calculated. The airborne concentration of a particular substance calculated as a time-weighted average over 15 minutes.
<b>STOT</b>	Specific Target Organ Toxicity.
<b>SUSMP</b>	Standard for the Uniform Scheduling of Medicines and Poisons.
<b>SWA</b>	Safe Work Australia.
<b>TEELs</b>	Temporary Emergency Exposure Limits. Guidelines designed to predict the response of members of the general public to different concentrations of a chemical during an emergency response incident.
<b>TEEL-1</b>	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience notable discomfort, irritation, or certain asymptomatic, nonsensory effects. However, these effects are not disabling and are transient and reversible upon cessation of exposure.
<b>TEEL-2</b>	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience irreversible or other serious, long-lasting, adverse health effects or an impaired ability to escape.
<b>TEEL-3</b>	The airborne concentration of a substance above which it is predicted that the general population, including susceptible individuals, could experience life-threatening adverse health effects or death.
<b>TWA</b>	Time weighted average exposure limit. The average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

**References:**

BASF SDS for Librel® Cu

ChemID Plus

EPA New Zealand Chemical Classification and Information Database (CCID)

HSDB (Hazardous Substances Data Bank)

**This version issued:** 15 April 2016 and is valid for 5 years from this date.





**Supersedes:** This SDS supersedes the version issued on 11 March 2011.

**Revision History:**

Date of Revision	Reason
15 April 2016	Classification of substance to GHS classification and update of SDS to comply with SWA Code of Practice.

**END OF SDS**