

ISSUED: 22 MARCH 2019

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

Product Name:	Paramectin RV Pour-On for Cattle
Product Identifier:	10 mg/mL abamectin and 945 g/L diethylene glycol monobutyl ether solution for cattle
Product Code:	502530 (1L), 503245 (10L)
Recommended Use:	A pour-on anthelmintic for the treatment and control of abamectin sensitive internal and external parasites of cattle.
Restrictions on Use:	For animal treatment only.
Company Identification:	Jurox Pty Limited
Address:	85 Gardiner Street, Rutherford, NSW 2320, Australia
Customer Centre:	1800 023 312
Email:	customerservice@jurox.com.au
National Poisons Information Centre:	13 11 26 (24 hours)
Emergency Telephone Number:	1800 023 312 (9am – 5pm, Monday to Friday)

Section 2: HAZARDS IDENTIFICATION

GHS 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 3	H331	Toxic if inhaled.
Eye Irritation Category 2A	H319	Causes serious eye irritation.
Specific Target Organ Toxicity (repeat exposure) Category 2	H373	May cause damage to organs through prolonged or repeated exposure
Chronic Aquatic Hazard Category 3	H412	Harmful to aquatic life with long lasting effects.

GHS Label Elements:

Signal Word: **DANGER**

Pictograms:



Skull

Exclamation
markHealth
hazard

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.
P260 Do not breathe vapours.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear eye protection/face protection.

Response

P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.
P330 Rinse mouth.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P311 Call a POISON CENTRE/doctor.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.

Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with label directions.

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
Diethylene glycol monobutyl ether	112-34-5	94.5%
Abamectin	71751-41-2	1%
Ingredients not contributing to the hazards	-	<10%

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: None known.

Inhalation: 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. Seek medical assistance immediately.

Ingestion: IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact the National Poisons Centre on 13 11 26 or a doctor. Urgent hospital treatment is likely to

be needed. In the mean-time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. The patient should be placed in the care of a medical officer or medical doctor and a copy of the SDS should be provided. If medical attention is not available on the worksite or surroundings send the patient to a hospital 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 protective gloves when inducing vomiting by mechanical means.

Skin: If skin contact occurs, wash affected area thoroughly with plenty of soap and water for at least 15 minutes. If skin irritation or rash occurs, get medical advice/attention. Remove and wash / dispose of contaminated clothing promptly.

Eye: If eye contact occurs, rinse cautiously with water for at least 20 minutes. 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 rinsing. Seek medical attention immediately and 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 may be minimised by emesis-induction within one half hour of exposure. Since abamectin is thought 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 abamectin exposure. Avoid drugs that enhance GABA activity (barbiturate, benzodiazepines, valproic acid, etc.).

Section 5: FIRE FIGHTING MEASURES

Flash Point: 110°C.

Hazardous Combustion Products: If involved in a fire, may emit toxic and corrosive fumes. Expansion on heating may lead to violent rupture of containers. Slight fire risk when exposed to heat or flame.

Extinguishing Media: Water spray or fog, foam, dry chemical powder or BCF (where regulations permit).

Protective Equipment: Full protective clothing with breathing apparatus.

Hazchem Code: None specified.

Section 6: ACCIDENTAL RELEASE MEASURES

Spills and Disposal: Wear appropriate protective clothing. Avoid breathing vapours and contact with skin and eyes. For small spills, contain spill and absorb with inert material such as soil, sand or absorbent granules. Wipe up and wash area well with excess water. For large spills, exclude non-essential people from the area. Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Ventilate area and wash spill site after pick-up complete. Dispose of waste safely in an approved landfill.

Protective Clothing: Breathing apparatus, chemical splash suit and protective gloves.

Environmental Precautions: Prevent from entering drains, waterways or sewers. If contamination of drains and waterways occurs, advise local authority.

Section 7: HANDLING AND STORAGE

Handling: Read safety directions before opening or using. Avoid contact with skin, eyes and inhalation of vapours. Avoid contact with clothing. Use personal protective equipment as required – see label. Do not eat, drink or smoke while handling product. After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water.

Storage: Keep out of reach of children. Keep container tightly closed and store locked up, below 30°C, out of direct sunlight and in a well-ventilated area.

Other Information: Always read the label before use. See label for further information on handling and storage.

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:

Emergency Limits

INGREDIENT	TEEL-1	TEEL-2	TEEL-3
Diethylene glycol monobutyl ether	30 ppm	33 ppm	200 ppm
Abamectin	No data	No data	No data

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

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

Personal Protective Equipment (PPE):

Eye Protection: Safety glasses with side shield or chemical 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, and safety footwear or safety gumboots, e.g. Rubber.

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

Other: Overalls, barrier cream and skin cleansing cream. Have eyewash unit at hand.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless liquid with mild odour	Upper / Lower Flammability Limits:	Not available
Odour:	Not available	Vapour Pressure:	< 1 kPa @ 20 °C
Odour Threshold:	Not available	Vapour Density:	Not available
pH:	Not available	Relative Density / Specific Gravity:	Approx. 0.93 – 0.98
Melting Point / Freezing Point:	Not available	Solubility:	Miscible with water
Boiling Point and Boiling Range:	Approx. 230°C	Partition Coefficient (n-octanol/water):	Not available
Flash Point:	110°C	Auto-Ignition Temperature:	Not available
Evaporation Rate:	Not available	Decomposition Temperature:	Not available
Flammability:	Not flammable	Viscosity:	Not available

Section 10: STABILITY AND REACTIVITY

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

Chemical 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: Combustion products include carbon dioxide 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 has a classification of **Acute Toxicity (Oral) Category 4**. Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.

Abamectin: Oral (rat) LD₅₀: 1.5 mg/kg; Oral (monkey) LD₅₀: 17 mg/kg;
Diethylene glycol monobutyl ether: Oral (rat) LD₅₀: 4500 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 3**. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may produce toxic effects. There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. Inhalation hazard is increased at higher temperatures. Acute effects from inhalation of high vapour concentrations may be chest and nasal irritation with coughing, sneezing, headache and even nausea.

Abamectin: Inhalation (rat) LC₅₀: 1.1 mg/L/4h;
Diethylene glycol monobutyl ether: No data

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.

Abamectin: Dermal (rat) LD₅₀: > 330 mg/kg;
Diethylene glycol monobutyl ether: Dermal (rabbit) LD₅₀: 2700 mg/kg.

Aspiration Hazard: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be an aspiration hazard.

Respiratory Irritation: No data for the mixture is available. Based on available data for the ingredients, the mixture is not considered to be a respiratory irritant.

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 has been given the classification of **Eye Irritation Category 2A**. There is evidence that the material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain.

Respiratory or Skin Sensitisation: No data for the mixture is available. Based on available data for the ingredients, the not considered to be a respiratory or skin sensitiser.

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.

Specific Target Organ Toxicity (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.

Specific Target Organ Toxicity (STOT): Repeated exposure: No data for the mixture is available. Based on available data for the ingredients, the mixture is classified as **Specific Target Organ Toxicity (repeat exposure) Category 2**. This material can cause serious damage if one is exposed to it for long periods. It

can be assumed that it contains a substance which can produce severe defects. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational 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 classified as **Chronic Aquatic Hazard Category 3**. Abamectin is very toxic to bees and very toxic to aquatic life with long lasting effects.

Fish

Abamectin: LC₅₀ (96h): 0.0036 mg/L, LOEC = 0.0000093 mg/L;

Diethylene glycol monobutyl ether: LC₅₀ (96h): 300 mg/L.

Crustacea

Abamectin: EC₅₀ (48h): 0.00034 mg/L;

Diethylene glycol monobutyl ether: EC₅₀ (48h): 950 mg/L.

Algae and other aquatic plants

Abamectin: EC₅₀ (96h): 7.3 mg/L

Diethylene glycol monobutyl ether: EC₅₀ (72h): 100 mg/L.

Bees

Abamectin: LD₅₀ (bee): 0.002 ug/bee.

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
Diethylene glycol monobutyl ether	LOW	LOW	LOW (BCF = 0.46)	LOW (KOC = 10)
Abamectin	No data available	No data available	No data available	No data available

Section 13: DISPOSAL INFORMATION

Product Disposal: Dispose of product only by using according to label or by approved waste collection. Do not dispose of undiluted chemicals on-site.

Container Disposal: Triple or (preferably) pressure rinse the containers. Break, crush or puncture and bury empty containers in local authority landfill. If not available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

Section 14: TRANSPORT INFORMATION

Dangerous Goods Classification: Not considered a Dangerous Good according to the criteria of the Australian Dangerous Goods (ADG) Code.

Hazchem Code: None specified.

Section 15: REGULATORY INFORMATION

Poisons Schedule: S6

APVMA Registration No: 53549

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

Section 16: OTHER INFORMATION**Legend:**

ADI	Acceptable daily intake
AICS	Australian Inventory of Chemical Substances.
BCF	Bioconcentration factor
BCF	Bromochlorodifluoromethane (fire extinguisher)
CAS No.	Chemical Abstracts Service Registry Number.
EC₅₀	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.
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.
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.
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	Lethal Concentration Low. The lowest published lethal dose.
LOEC	Lowest Observed Effect Concentration.
NICNAS	National Industrial Chemicals Notification and Assessment Scheme.
PPE	Personal Protective Equipment.
PVC	Polyvinyl chloride.
SDS	Safety Data Sheet.
STOT	Specific Target Organ Toxicity.
TEELs	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.
TEEL-1	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.
TEEL-2	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.
TEEL-3	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.

References:

ChemID Plus

EPA New Zealand Chemical Classification and Information Database (CCID)

HSDB (Hazardous Substances Data Bank)

This version issued: 22 March 2019 and is valid for 5 years from this date.

Supersedes: This SDS supersedes the version issued on 29 November 2017.

Revision History:

Date of Revision	Reason
29 November 2017	Update to Section 1.
22 March 2019	Individual SDS created for Paramectin RV Pour-On for Cattle (previous SDS was a joint document for Paramectin Pour-On and Paramectin RV Pour-On). Addition of product identifier in section 1. GHS classifications updated to match Chemwatch SDS. Pictograms, hazard and precautionary statements updated. Updates to sections 4, 5, 6, 7, 8, 10, 11, 12 & 15. Updated legend and revision history.

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 do 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.

END OF SDS