SECTION 1 : IDENTIFICATION AND CONTACTS	
Product Name	NEOVERIN POUR-ON FOR BEEF AND DAIRY CATTLE
Company Name	Neove Pharma Australia Pty Ltd (ACN 140 367 442)
Address	Level 3, 276 Pitt Street, Sydney NSW 2000
Email	info@neovepharma.com.au
Customer Line	For Non-emergency Calls: 1300 052 066
Emergency Telephone	Poisons Information Centre : **13 11 26** anywhere in Australia
Creation Date	December, 2021 (Version 2.0)

SECTION 2 : HAZARDS IDENTIFICATION	
Hazard Classification	Not classified as hazardous according to NOHSC. Not classified as dangerous according to ADG Code.
Risk Phrases	VERY TOXIC TO AQUATIC ORGANISMS (R50)
Safety Phrases	DO NOT EMPTY INTO DRAINS (S29)
SUSMP Classification	Poisons Schedule: 5
ADG Code	Not Dangerous Goods
UN No.	None
Local Effects	Not irritating to skin or eye contact. Not likely to be inhaled. Unlikely to be harmful at the low concentration of active ingredient in this product. In the case of ingestion, overexposure to the active ingredient may cause dilated pupils, in-coordination, drowsiness, depressed motor activity, slowed breathing, dilation of the pupils, tremors, vomiting, anorexia, muscle tremors, headache and dizziness. Not sensitizing. Not classified by NOHSC, NTP or IARC.

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS			
Constituent name	**CAS No.**	**Proportion**	**Classification / Risk Phrase**
Eprinomectin	123997-26-2	0.5%	Toxic/R 20/21,25,50
Other non-hazardous ingredients	-	to 100%	-

SECTION 4 : FIRST AID MEASURES	
Advice	For advice, contact a Poisons Information Centre 131126 anywhere in Australia, or call a doctor at once.
Inhalation	If vapour or mist inhaled, remove from contaminated area. If adverse

	effects occur, contact P.I.C. or a doctor and show this SDS.
Skin Contact	If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.
Eye Contact	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
Ingestion	If swallowed urgent hospital treatment is likely to be needed. Follow instruction of Poisons Information Centre. Medical observation for delayed symptoms needs to be carried out for up to 48 hours. Medical conditions aggravated by exposure - none known.
Pharmacology	Eprinomectin is a member of the macrocyclic lactone class of endectocides which have a unique mode of action. Compounds of the class bind selectively and with high affinity to glutamate-gated chloride ion channels which occur in invertebrate nerve and muscle cells. This leads to an increase in the permeability of the cell membrane to chloride ions with hyperpolarization of the nerve or muscle cell, resulting in paralysis and death of the parasite. Compounds of this class may also interact with other ligand-gated chloride channels, such as those gated by the neurotransmitter gamma-aminobutyric acid (GABA). The margin of safety for compounds of this class is attributable to the fact that mammals do not have glutamate-gated chloride channels, the macrocyclic lactones have a low affinity for other mammalian ligand-gated chloride channels and they do not readily cross the blood-brain barrier.

SECTION 5 : FIRE FIGHTING MEASURES	
Extinguishing Media	Water spray/fog, dry chemical or CO_2.
Fire & Explosion Hazards	Combustible not flammable.
Fire Fighting	Do not use water jet.
Special Advice in Case of Fire	Emergency workers should wear full protective equipment and supplied-air breathing apparatus. Toxic or irritant gases, vapours or particulates may be generated in a fire. Spray water on containers to cool them. Contain contaminated fire-fighting water.
Hazardous Products of Combustion	Oxides of carbon and unidentified pyrogenic substances.

SECTION 6 : ACCIDENTAL RELEASE MEASURES	
Accidental Release	IF SPILL OR LEAK IS OF SIGNIFICANT QUANTITY: Move non-essential persons away. Put on the protective equipment recommended in Section 8. Seal leak if safe to do so and place leaking receptacles in an over-bin. Contain spill with absorbent material such as dry sand or kitty litter. Do not allow liquid to enter drains or sewer. Sweep up used absorbent and pack in properly labelled container for disposal. To cleanse the contaminated area, wet down contaminated area with a small amount of water, cover again with absorbent, sweep up used absorbent and place in labelled container. Consult waste authority regarding disposal.
Occupational Release	As for accidental release. Wear impervious gloves and eye protection to deal with a large spill.

SECTION 7 : HANDLING AND STORAGE	
Safety Directions	PRODUCT IS HARMFUL IF SWALLOWED. WILL IRRITATE THE EYES AND SKIN. AVOID CONTACT WITH THE EYES AND SKIN. REPEATED EXPOSURE MAY CAUSE ALLERGIC DISORDERS. If clothing becomes contaminated with product, remove clothing and launder. If product is on skin, immediately wash area with soap and water. If product is in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing.
Handling and Storage	Store away from oxidizing agents. Do not store with food. Store in original container to protect from light. Store below 30^{o}C.

SECTION 8 : EXPOSURE CONTROLS AND PERSONAL PROTECTION	
Exposure Limits	No ingredients that require workplace atmosphere monitoring have been identified. NOHSC TWA = None assigned NOHSC STEL= None assigned No exposure limits have been established for toxic ingredients such as the active ingredient.
Personal Protection	
Eye Protection	Use eye protection complying with AS 1336 / 1337.
Skin Protection	Wear impervious gloves such as neoprene rubber or PVC-coated cotton gloves complying with AS/NZS 2161.2. Wear overalls and impervious footwear. Wear a respirator if a mist or aerosol is formed from large spills.
Exposure Controls /Industrial hygiene	
Ventilation	Good ventilation for normal use.

Respirator	Not required for normal use.
Eye Protection	Not required for normal use.
Skin Protection	Not required for normal use.

SECTION 9 : PHYSICAL & CHEMICAL PROPERTIES	
Physical State	Colourless to yellow liquid.
Colour	Not Available
Odour	Not Available
Melting/Boiling Point	Not Available
Relative Density	Not Available
Vapour Pressure	Not Available
Viscosity	Not Available
Solubility	Poorly miscible with water
pH	Not Available
Flash Point	220 °C
Reactiviry	Not an oxidizing agent.
Ignition Temperature	Not Available
Burning Characteristics	Combustible, not flammable
Incompatible Materials	Strong oxidizing agents or peroxide formers

SECTION 10 : STABILITY & REACTIVITY	
Thermal Decomposition	Not expected at normal temperatures.
Conditions to Avoid	Contact with any oxidizing agent, strong acids and strong alkali. Incompatible with oxidizing agents.
Incompatible Materials	Oxidizing agents.
Hazardous Decomposition Products	No significant decomposition expected at normal temperatures. Products of photodegradation have not been identified.
Reactivity	Stable but readily oxidized by oxidizing agents such as pool and spa chlorine, permanganates, chlorates and may catch fire in contact with them.
Dangerous Reactions	None known.

SECTION 11 : TOXICOLOGICAL INFORMATION	
	This product is a veterinary medicine and should be regarded as harmful if swallowed or absorbed. Health effects from the likely routes of exposure

Acute Toxicity	Oral- LD_{50} (rat) : > 5000 mg/kg – Product; 55 mg/kg – Eprinomectin Dermal LD_{50} (rat) : > 5000 mg/kg – Product; > 660 mg/kg – Eprinomectin Dermal LD_{50} (rabbit) : > 50000 mg/kg - Product; 406 mg/kg – Eprinomectin Inhalation 4 hr (rat) : > 1000 mg/L – Product; 5.11 mg/L – Eprinomectin Skin irritation (rabbit): Not a skin irritant – Product & Eprinomectin Eye irritation (rabbit): Eye irritant – Product & Eprinomectin Sensitization (guinea pig): Not a sensitizing agent – Product & Eprinomectin Genotoxicity: Not genotoxic – Product & Eprinomectin
Local Effects	None identified
Target Organs	Eyes
Hazardous Ingredients	None
Mutagenicity Data	Not available.
Subacute to Chronic Toxicity	Not available.
Additional Toxicological Information	The following symptoms may occur: Overexposure to the active ingredient eprinomectin may cause dilated pupils, in-coordination, drowsiness, depressed motor activity, slowed breathing, dilation of the pupils, tremors, vomiting, anorexia, muscle tremors, headache and dizziness.

SECTION 12:ECOLOGICAL INFORMATION	
Environmental Fate	The following Information applies to the eprinomectin active ingredient, not the product: Epronomectin photodegrades rapidly in the environment and is metabolized in the soil. Water solubility is limited and it binds to soil very tightly. It does not bioconcentrate in fish and is not taken up from soil into plants.
Bioaccumulation Potential	Not expected to bioaccumulate.
Ecotoxicity	**Fish toxicity:** LC50 = 1.2 ppb - Rainbow Trout - very toxic to fish.

	Daphnia toxicity: EC50 48 hr = 0.45 ppb (*magna)* - very toxic to Daphnia **Algal toxicity:** Not available. **Bacterial toxicity:** Not available.
Ready Biodegradability	Not available.

SECTION 13 : DISPOSAL INFORMATION	
Special Precautions	As the active ingredient is highly toxic to aquatic organisms, great care is needed to ensure that the product does not reach a drain or waterway.
After Intended Use	Triple or (preferably) pressure rinse the empty container. Dispose of waste product/rinsate in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Return clean container for recycling where this is an option or for disposal at a landfill authorised to accept that waste. If neither of these options are available, bury the container below 500 mm in the disposal pit. Empty containers should not be burned. Contaminated water can be treated by activated carbon absorption. For the disposal of the clean-up materials from a significant spill consult waste authority regarding disposal.

SECTION 14 : TRANSPORT INFORMATION	
Surface Transport	
UN Number	None
UN Proper Shipping Name	None
Class & Subsidiary risk	-
Packing group	-
Hazchem Code	None
Special Precautions for User	None
Labelling	No DG Labelling required in Australia
Transport as	No special requirements
Incompatible stowage:	Foodstuffs

SECTION 15 : REGULATORY INFORMATION	
APVMA Registration	The products are registered by the APVMA
Registration Number	84904

SECTION 16 : OTHER INFORMATION	
Hazardous for Water	Do not allow product to reach ground water, water course or sewage system. Poisonous to fish and plankton in water bodies.
Acronyms Used in SDS	
• APVMA	Australian Pesticides and Veterinary Medicines Authority
• ADG Code	Australian Dangerous Goods Code
• CAS No.	Chemical Abstracts Service Registry Number
• UN No.	United Nations identifying number
• NOHSC	National Occupational Health & Safety Commission
• HAZCHEM	Code for information for emergency services
• SWA	Safe Work Australia, formerly ASCC and NOHSC
• AICS	Australian Inventory of Chemical Substances
• SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
• NTP	National Toxicology Programme (USA)
• IARC	International Agency for Research on Cancer

END OF SDS