


Section 1: Identification

Common Name/Trade Name	IVERMECTIN	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours) NSW Poisons Information Centre: 131 126 (24 hours)
Distributor Name	Bella Corp Trading Pty Ltd 6/34 Dominions Road, Ashmore QLD 4214, Australia Telephone: 07 5597 4169 Email: bellacorp@bellacorp.com.au	
Product Synonym(s)	22,23-Dihydroabamectin; Cardomec®; Cevamec®; Equimec®; Eqvalan®; Heartgard-30®; Hyvermectin; Ivermectine; Ivomec®; Ivosint; Jetamec®; Mectizan®; Noramectin®; Oramec®; Pandex®; Phoenectin®; Stromectol®; Uvemecc®; Vermic®; Zimecterin®	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Acute toxicity, oral (Category 1), Acute toxicity, dermal (Category 3), Reproductive toxicity (Category 2), Hazardous to the aquatic environment, chronic toxicity (Category 1)	
Signal Word	Danger	
Hazard Statement(s)	H300 Fatal if swallowed H311 Toxic in contact with skin H361 Suspected of damaging fertility or the unborn child H410 Very toxic to aquatic life with long-lasting effects	
Pictogram(s)		
Precautionary Statement(s)	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P281 Use personal protective equipment as required. P301+P310 IF SWALLOWED Immediately call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN Wash with soap and water. P308+P313 IF exposed or concerned Get medical advice/attention. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P361 Remove/Take off immediately all contaminated clothing. P363 Wash contaminated clothing before reuse. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.	
Hazards Not Otherwise Classified	N/A	
Ingredient(s) with Unknown Toxicity	N/A	

Section 3: Composition/Information on Ingredients

Chemical Name	Ivermectin	
Common Name	Ivermectin	
CAS Number	70288-86-7	
Additional Ingredient Information	Ivermectin 70288-86-7 >=95%. See other ingredient information below.	
Material	Percent	CAS
Ivermectin H2B1a	>= 90%	71827-03-7
Ivermectin H2B1b	</=5%	70209-81-3
Impurities and/or Stabilizing Additives	N/A	

Section 4: First Aid Measures

General Advice	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed health-care provider familiar with workplace chemical exposures. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Persons developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention. First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical-resistant gloves, splash protection).
If Inhaled	Remove to fresh air. If breathing becomes difficult, call a physician.
In Case of Skin Contact	Flush with copious amounts of water and soap for at least 15 minutes. Remove contaminated clothing and shoes.
In Case of Eye Contact	Assure adequate flushing by separating the eyelids with fingers. Flush with copious amounts of water for at least 15 minutes.
If Swallowed	Wash out mouth with water and administer fresh water provided that the person is conscious. Monitor respiration and pulse.
Most Important Symptoms and Effects	Adverse effects may include asthenia/fatigue; nausea; dizziness; fever; headache. Acute Effects: Eye, skin, gastrointestinal and/or respiratory tract irritation. Delayed Effects: Possible hypersensitization. Immediate Medical Attention and Special Treatment Medical Attention: To decrease absorption - Induction of emesis and/or gastric lavage as soon as possible followed by administration of purgatives and routine overdose measures. Supportive care - If indicated should include parenteral fluids and electrolytes, respiratory support agents if clinically significant hypotension is present.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Suitable Extinguishing Media: Carbon dioxide, dry chemical powder or appropriate foam. Water spray. Avoid spill into drains, surface and groundwater and soil. Unsuitable Extinguishing Media: NAIF
Special Hazards Arising From the Substance/Mixture	COx and other noxious gases or vapours in case of incomplete combustion.
Special PPE and/or Precautions for Firefighters	As with all fires, evacuate personnel to a safe area. Firefighters should use self-contained breathing equipment and protective clothing.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Wear suitable protective equipment. Emergency Procedures: Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Avoid inhalation of dust from the spilled material. Wear appropriate personal protective equipment. For Emergency Responders: Switch off electrical equipment and any other sources of ignition. Evacuate area. Wear self-contained breathing apparatus, appropriate boots and heavy rubber gloves.
Methods and Materials Used for Containment	Keep away from drains, surface and groundwater.
Cleanup Procedures	Collect residues manually, wipe with a small quantity of sodium hypochlorite, place in a bag and hold for waste disposal. For Cleaning up: Avoid raising dust/mist. Ventilate area and wash spill site with sodium hypochlorite solution after material pick up is complete. Other information: NAIF

Section 7: Handling and Storage

Precautions for Safe Handling	Measures to Prevent Fire: The product itself does not burn. Measures to Prevent Aerosol and Dust Generation: If technically possible use local exhaust ventilation. Measures to Protect the Environment: No special provisions if the product is used appropriately. Advice on General Occupational Hygiene: NAIF
Conditions for Safe Storage	Technical Measures and Storage Conditions: Store at 15°C to 30°C. Storage Class: 6.1 B

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	OEB=band 3 (occupation control exposure to the range of >10ug/m ³ to < 100ug/m ³)
Appropriate Engineering Controls	Substance/Mixture only to be used by those trained in its safe use. Appropriate Engineering Technologies: Enclosed processes or local exhaust ventilation.
PPE - Eye/Face Protection	Wear protective chemical safety goggles.
PPE - Skin Protection	Compatible chemical-resistant gloves.
PPE - Body Protection	Wear protective suit.
PPE - Respiratory Protection	Use a NIOSH-approved respirator, if it is determined to be necessary by an industrial hygiene survey involving air monitoring. In the event that a respirator is not required, an approved dust mask should be used. Engineering controls such as exhaust ventilation are recommended.

Section 9: Physical and Chemical Properties

Appearance	White to yellowish-white crystalline powder.
Upper/Lower Flammability or Explosive Limits	Not available
Odor	Weak odor
Vapor Pressure	Not available
Odor Threshold	Not available
Vapor Density	Not available
pH	Not available
Relative Density	Not available
Melting Point/Freezing Point	Not available
Solubility	Easily soluble in methanol, ethanol, acetone, ethyl acetate, but insoluble in water.
Initial Boiling Point and Boiling Range	Not available
Flash Point	Not available
Evaporation Rate	Not available
Flammability (Solid, Gas)	Not available
Partition Coefficient	Not available
Auto-Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available

Section 10: Stability and Reactivity

Reactivity	No reactivity hazards known.
Chemical Stability	Stable under normal use.
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	Avoid exposure to light and moisture.
Incompatible Materials	Oxidizing agents, alkali metals, ammonia, peroxides, acids, bases.
Hazardous Decomposition Products	When heated to decomposition, material emits toxic fumes of NO _x . Emits toxic fumes under fire conditions.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	Monkeys LD50 > 24mg/kg Rats LD50 = 50 mg/kg Mice LD50 = 25 mg/kg Dogs LD50 = 80 mg/kg Monkeys LD50 > 24mg/kg
Acute Toxicity - Inhalation	Not available.
Acute Toxicity - Dermal	Rabbits LD50 = 406 mg/kg.
Acute Toxicity - Eye	Rabbits: Slightly irritant.
Skin Corrosion/Irritation	Rabbits LD50 = 406 mg/kg.
Serious Eye Damage/Irritation	Rabbits: Slightly irritant.
Respiratory or Skin Sensitization	May cause serious irritation and hypersensitivity. Medical Conditions Aggravated by Exposure: Hypersensitivity to material and bronchial asthma.
Germ Cell Mutagenicity	Salmonella Negative, Bacterial Mutagenicity (Ames). Mice Negative, Mammalian Cell Mutagenicity Human Negative, Unscheduled DNA Synthesis Teratogenicity: Mice Oral NOEL=0.2 mg/kg/day, Maternal Toxicity, Teratogenic, Embryo/Fetal Development Rats Oral NOEL=5 mg/kg/day Maternal Toxicity, Teratogenic, Embryo/Fetal Development. Rabbits Oral NOEL=5 mg/kg/day. Fetotoxicity, Teratogenic, Embryo / Fetal Development
Carcinogenicity IARC	Not listed.
Carcinogenicity ACGIH	Not listed.
Carcinogenicity NTP	Not listed.
Carcinogenicity OSHA	Not listed.
Reproductive Toxicity	Rats Oral NOEL=0.8 mg/kg/day Fetotoxicity, Teratogenic, Reproductive & Fertility. Developmental Toxicity: Woman ivermectin does not appear to be selectively fetotoxic to the developing fetus. Pregnancy Risk Category: C. Pregnancy Comments: Animal reproduction studies have shown an adverse effect on the fetus and there are no adequate and well-controlled studies in humans, but potential benefits may warrant use of the drug in pregnant women despite potential risks. Breastfeeding: Ivermectin is excreted in human milk in low concentrations. Treatment of mothers who intend to breastfeed should only be undertaken when the risk of delayed treatment to the mother outweighs the possible risk to the newborn
Specific Target Organ Toxicity - Single Exposure	Not available. Target Organs: Central nervous system.
Specific Target Organ Toxicity - Repeated Exposure	Not available
Aspiration Hazard	Not available

Section 12: Ecological Information

Toxicity	Acute (Short-term) Toxicity: LC50 (Fish- 96h): LC50 = 3 g/L, Trout; LC50 = 4.8 g/L, Bluegill sunfish EC50 (Daphnies- 48h): LC50 = 0.025 g/L, Daphnia magna IC50 (Algae- 72h): NAIF Other Organisms: NAIF Chronic (Long- term) Toxicity: Fish: NAIF Crustacea: NAIF Algae/Aquatic Plant NOEC = 9.1 mg/L, green algae 72h. Other Organisms: NAIF
Persistence and Degradability	Slow biodegradation.
Bio-accumulative Potential	Log Kow = 3.22. Potential for bioaccumulation.
Mobility in Soil	Leaching and Mobility: Ivermectin 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.
Other Adverse Effects	No additional information available.

Section 13: Disposal Considerations

Waste Treatment Methods Product	Product residue: Deliver to the Environmental service of the factory or to any specialized and approved disposal service. Incineration in accordance with laws. Uncleaned packaging: Deliver to the Environmental service of the factory or to any specialized and approved disposal service. Incineration in accordance with laws.
Waste Treatment Methods Packaging	Uncleaned packaging: Deliver to the Environmental service of the factory or to any specialized and approved disposal service. Incineration in accordance with laws. Dispose in accordance with all applicable regulations
Special Precautions Landfill or Incinerations	Dispose in accordance with all applicable regulations. Waste Treatment- Relevant Information: The waste code should be assigned in discussion between the user, the producer and the waste disposal company. Sewage Disposal- Relevant Information: 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
Other Information	No additional information available.

Section 14: Transport Information

UN Number	UN2811
UN Proper Shipping Name	Toxic solid, organic, n.o.s.
Transport Hazard Class(es)	6.1
Packaging Group	II
Environmental Hazards	Marine pollutant

Section 15: Regulatory Information

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture U.S.: TSCA: Exempt OSHA: None of the chemicals in this product are considered highly hazardous by OSHA. SARA: SARA Section 302 Extremely Hazardous Substance: Not Listed. SARA Section 302/304 Emergency Planning and Notification: None. SARA Section 311/312 Hazard Categories: Acute Health Hazard. SARA Section 313 Toxic Chemicals- Supplier Notification Required: None. EPA: CERCLA: Not listed CAA 112(r): Not listed CWA 311/307: Not listed California: P65: Not listed EU: SVHC: Not listed Authorisations and/or Restrictions on Use: NAIF Authorisations: NAIF Restrictions on Use: NAIF Other EU Regulations: NAIF Information According 1999/13/EC about Limitation of Emissions of Volatile Organic Compounds (VOC-guideline): NAIF Germany: WGK: Group 3 TA-Luft: NAIF Technical Rules for Dangerous Substances: NAIF Canada: DSL/NDL: Listed on DSL Australia: AICS: Not listed P. R. China: IECSC: Not listed SFDA: Narcotic: Not listed Psychotropic: Not listed Chemical Safety Assessment: No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16: Other Information

Additional Information	N/A
Prepared By	Scarlotte Smith
Revision Date	01/13/2025 16:47

Disclaimer

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