


## Section 1: Identification

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

## Section 2: Hazards Identification

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

## Section 3: Composition/Information on Ingredients

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

## Section 4: First Aid Measures

<b>General Advice</b>	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from an occupational health physician or other licensed healthcare 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).
<b>If Inhaled</b>	Remove to fresh air. If breathing becomes difficult, call a physician.
<b>In Case of Skin Contact</b>	Flush with copious amounts of water and soap for at least 15 minutes. Remove contaminated clothing and shoes.
<b>In Case of Eye Contact</b>	Assure adequate flushing by separating the eyelids with fingers. Flush with copious amounts of water for at least 15 minutes.
<b>If Swallowed</b>	Wash out mouth with water and administer fresh water provided that the person is conscious. Monitor respiration and pulse.
<b>Most Important Symptoms and Effects</b>	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

<b>Suitable Extinguishing Media</b>	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
<b>Special Hazards Arising From the Substance/Mixture</b>	CO <sub>x</sub> and other noxious gases or vapours in case of incomplete combustion.
<b>Special PPE and/or Precautions for Firefighters</b>	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

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	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.
<b>Methods and Materials Used for Containment</b>	Keep away from drains, surface and ground water.
<b>Cleanup Procedures</b>	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

<b>Precautions for Safe Handling</b>	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
<b>Conditions for Safe Storage</b>	Technical Measures and Storage Conditions: Store at 15°C to 30°C. Storage Class: 6.1 B

## Section 8: Exposure Controls/Personal Protection

<b>Components with Workplace Control Parameters</b>	OEB=band 3 (occupation control exposure to the range of >10ug/m <sup>3</sup> to < 100ug/m <sup>3</sup> )
<b>Appropriate Engineering Controls</b>	Substance/Mixture only to be used by those trained in its safe use. Appropriate Engineering Technologies: Enclosed processes or local exhaust ventilation.
<b>PPE - Eye/Face Protection</b>	Wear protective chemical safety goggles.
<b>PPE - Skin Protection</b>	Compatible chemical-resistant gloves.
<b>PPE - Body Protection</b>	Wear protective suit.
<b>PPE - Respiratory Protection</b>	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

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

## Section 10: Stability and Reactivity

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

## Section 11: Toxicological Information

<b>Acute Toxicity - LD50 Oral</b>	Monkeys LD50 > 24mg/kg Rats LD50 = 50 mg/kg Mice LD50 = 25 mg/kg Dogs LD50 = 80 mg/kg Monkeys LD50 > 24mg/kg
<b>Acute Toxicity - Inhalation</b>	Not available.
<b>Acute Toxicity - Dermal</b>	Rabbits LD50 = 406 mg/kg.
<b>Acute Toxicity - Eye</b>	Rabbits Slightly irritant.
<b>Skin Corrosion/Irritation</b>	Rabbits LD50 = 406 mg/kg.
<b>Serious Eye Damage/Irritation</b>	Rabbits Slightly irritant.
<b>Respiratory or Skin Sensitization</b>	May cause serious irritation and hypersensitivity. Medical Conditions Aggravated by Exposure: Hypersensitivity to material and bronchial asthma.
<b>Germ Cell Mutagenicity</b>	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
<b>Carcinogenicity IARC</b>	Not listed.
<b>Carcinogenicity ACGIH</b>	Not listed.
<b>Carcinogenicity NTP</b>	Not listed.
<b>Carcinogenicity OSHA</b>	Not listed.
<b>Reproductive Toxicity</b>	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.
<b>Specific Target Organ Toxicity - Single Exposure</b>	Not available. Target Organs: Central nervous system.
<b>Specific Target Organ Toxicity - Repeated Exposure</b>	Not available
<b>Aspiration Hazard</b>	Not available

## Section 12: Ecological Information

<b>Toxicity</b>	Acute (Short-term) Toxicity: LC50 (Fish-96h): LC50 = 3g/L, Trout; LC50 = 4.8g/L, Bluegill sunfish EC50 (Daphnies-48h): LC50 = 0.025g/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
<b>Persistence and Degradability</b>	Slow biodegradation.
<b>Bio-accumulative Potential</b>	Log Kow=3.22. Potential for bioaccumulation.
<b>Mobility in Soil</b>	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.
<b>Other Adverse Effects</b>	No additional information available.

## Section 13: Disposal Considerations

<b>Waste Treatment Methods Product</b>	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.
<b>Waste Treatment Methods Packaging</b>	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
<b>Special Precautions Landfill or Incinerations</b>	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
<b>Other Information</b>	No additional information available.

## Section 14: Transport Information

<b>UN Number</b>	UN2811
<b>UN Proper Shipping Name</b>	Toxic solid, organic, n.o.s.
<b>Transport Hazard Class(es)</b>	6.1
<b>Packaging Group</b>	II
<b>Environmental Hazards</b>	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/NDSL: 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

<b>Additional Information</b>	N/A
<b>Prepared By</b>	Scarlotte Smith
<b>Revision Date</b>	07/06/2023 16:45

### Disclaimer

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