


Section 1: Identification

Common Name/Trade Name	IVERMECTIN USP	
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)
Product Synonym(s)	N/A	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Acute toxicity, Oral (Category 2), Acute toxicity, Dermal (Category 3), Serious eye damage/eye irritation (Category 2B)	
Signal Word	Danger	
Hazard Statement(s)	H300 H311 H320	Fatal if swallowed Toxic in contact with skin Causes eye irritation
Pictogram(s)		
Precautionary Statement(s)	P264 P280 P301+P310 P302+P352 P305 P312 P330 P337+P313 P361 P363 P405 P501	Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED Immediately call a POISON CENTER or doctor/physician. IF ON SKIN Wash with soap and water. IF IN EYES Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. If eye irritation persists Get medical advice/attention. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container to an approved waste disposal plant.
Hazards Not Otherwise Classified	No data available	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	N/A
Common Name	Ivermectin
CAS Number	70288-86-7
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	Remove from exposure. Remove contaminated clothing. For treatment advice, seek guidance from occupational health physician or other licensed health-care provider familiar with workplace chemical exposure. In the United States, the national poison control center phone number is 1-800-222-1222. If person is not breathing, give artificial respiration. If breathing is difficult, give oxygen if available. Person developing serious hypersensitivity (anaphylactic) reactions must receive immediate medical attention.
If Inhaled	Move to fresh air. Call a physician if symptoms develop or persist.
In Case of Skin Contact	Take off immediately all contaminated clothing. Wash clothing separately before reuse. Wash the skin immediately with soap and water. For minor skin contact, avoid spreading material on unaffected skin. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical attention if irritation develops and persists.
In Case of Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
If Swallowed	Call a physician or poison control center immediately. Never give anything by mouth to a victim who is unconscious or is having convulsions. Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach contents doesn't get into lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical advice.
Most Important Symptoms and Effects	Irritation of eyes and mucous membranes. Treatment of avermectin overdose should be symptomatic and supportive and may include the Treatment of avermectin overdose should be symptomatic and supportive and may include the activated charcoal. Do NOT induce vomiting because of potential for CNS depression. For hypotension: Infuse isotonic fluid. If hypotension persists, administer dopamine or norepinephrine Monitor patients with significant exposure for cardiac arrhythmias and CNS depression; monitor fluids and electrolytes if vomiting is prolonged. Because of possible potentiation, GABA-enhancing drugs (e.g. barbiturates, benzodiazepines, valproic acid) should be avoided or used with caution. (Meditext)

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Use fire-extinguishing media appropriate for surrounding materials. Foam. Dry chemical or CO2.
Special Hazards Arising From the Substance/Mixture	No unusual fire or explosion hazards noted.
Special PPE and/or Precautions for Firefighters	Wear suitable protective equipment. Use water spray to cool unopened containers. As with all fires, evacuate personnel to safe area. Firefighters use self-contained breathing equipment and protective clothing.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from spilled material. Ensure adequate ventilation. Wear appropriate personal protective equipment.
Methods and Materials Used for Containment	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see Section 13 of the SDS. Clean surface thoroughly to remove residual contamination.
Cleanup Procedures	Sweep up vacuum up spillage and collect in suitable container for disposal. Avoid the generation of dusts during clean-up. For waste disposal, see section 13 of the SDS. Clean surface thoroughly to remove residual contamination.

Section 7: Handling and Storage

Precautions for Safe Handling	As a general rule, when handling USP Reference Standards, avoid all contact and inhalation of dust, mists, and/or vapors associated with the material. Clean equipment and work surfaces with suitable detergent or solvent after use. After removing gloves, wash hands and other exposed skin thoroughly.
Conditions for Safe Storage	Store in tight container as defined in the USP-NF. This material should be handled and stored per label instructions to ensure product integrity.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	Components: Ivermectin CAS-No. 70288-86-7. Type: TWA Value: 0.08 mg/m3
Appropriate Engineering Controls	Airborne exposures should be controlled primarily by engineering controls such as general dilution ventilation, local exhaust ventilation, or process enclosure. Local exhaust ventilation is generally preferred to general exhaust because it can control the contaminant at its source, preventing dispersion into the work area. And industrial hygiene survey involving air monitoring may be used to determine the effectiveness of engineering controls. Effectiveness of engineering controls to determine the effectiveness of engineering controls intended for use with highly potent materials should be assessed by use on nontoxic surrogate materials. Local exhaust ventilation such as laboratory fume hood or other vented enclosure is recommended, particularly for grinding, weighing, or other dust-generating procedures.
PPE - Eye/Face Protection	Safety glasses with sideshields are recommended. Face shields or goggles may be required if splash potential exists or if corrosive materials are present. Approved eye protection (e.g. bearing the ANSI Z87 or CSA stamp) is preferred. Maintain eyewash facilities in the work area.
PPE - Skin Protection	Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy.
PPE - Body Protection	Chemically compatible gloves. For handling solutions, ensure that the glove material is protective against the solvent being used. Use handling practices that minimize direct hand contact. Employees who are sensitive to natural rubber (latex) should use nitrile or other synthetic nonlatex gloves. Use of powdered latex gloves should be avoided due to the risk of latex allergy. For handling of laboratory scale quantities, a cloth lab coat is recommended. Where significant quantities are handled, work clothing may be necessary to prevent take-home contamination.
PPE - Respiratory Protection	Where respirators are deemed necessary to reduce or control occupational exposures, use NIOSH approved respiratory protection and have an effective respirator program in place (applicable U.S. regulation OSHA 29 CFR 1910.34).

Section 9: Physical and Chemical Properties

Appearance	Form: Powder Solid Colour: White to yellowish-white crystalline powder
Upper/Lower Flammability or Explosive Limits	No data available
Odor	No data available
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
pH	No data available
Relative Density	No data available
Melting Point/Freezing Point	302 - 314.6 °F (150 - 157 °C)
Solubility	Solubility in water Practically insoluble.
Initial Boiling Point and Boiling Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available
Partition Coefficient	No data available
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	No reactivity hazards known.
Chemical Stability	Material is stable under normal conditions.
Possibility of Hazardous Reactions	No dangerous reaction known under conditions of normal use.
Conditions to Avoid	None known
Incompatible Materials	Strong oxidizing agents. Alkalis. Ammonia. Peroxides. Acids. Bases.
Hazardous Decomposition Products	Irritating and/or toxic fumes or gases. Emits toxic fumes under fire conditions.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50 Oral Mouse 25mg/kg Rat 2 mg/kg, 10 mg/kg, 50 mg/kg
Acute Toxicity - Inhalation	Due to lack of data the classification is not possible.
Acute Toxicity - Dermal	Toxic in contact with skin.
Acute Toxicity - Eye	Causes eye irritation
Skin Corrosion/Irritation	Based on available data, the classification criteria are not met.
Serious Eye Damage/Irritation	Causes eye irritation
Respiratory or Skin Sensitization	Due to lack of data the classification is not possible.
Germ Cell Mutagenicity	Due to lack of data the classification is not possible. Data from germ cell mutagenicity test were not found.
Carcinogenicity IARC	This product does not contain any carcinogens or potential carcinogens as listed by IARC.
Carcinogenicity ACGIH	This product does not contain any carcinogens or potential carcinogens or potential carcinogens as listed by ACGIH.
Carcinogenicity NTP	This product does not contain any carcinogens or potential carcinogens as listed by NTP.
Carcinogenicity OSHA	This product does not contain any carcinogens or potential carcinogens as listed by OSHA.
Reproductive Toxicity	Based on available data, the classification criteria are not met. One study of 204 children born to mothers who had been treated with ivermectin during pregnancy found that use of ivermectin was no associated with any significant differences in the rate of miscarriage, stillbirth, or adverse effects in their children.
Specific Target Organ Toxicity - Single Exposure	Due to lack of data the classification is not possible.
Specific Target Organ Toxicity - Repeated Exposure	Due to lack of data the classification is not possible.
Aspiration Hazard	Based on available, the classification is not possible.

Section 12: Ecological Information

Toxicity	Crustacea LC50 Daphnia 0.025 ppb, 48 h Fish LC50 Fish 3 ppb, 96 h
Persistence and Degradability	No data is available on the degradability of this product.
Bio-accumulative Potential	No data available
Mobility in Soil	No data available
Other Adverse Effects	No data available

Section 13: Disposal Considerations

Waste Treatment Methods Product	Dispose in accordance with all applicable regulations, Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.
Waste Treatment Methods Packaging	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 (see Disposal section).
Special Precautions Landfill or Incinerations	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
Other Information	No data available

Section 14: Transport Information

UN Number	2811
UN Proper Shipping Name	Toxic solid, organic, n.o.s. (Ivermectin)
Transport Hazard Class(es)	6.1
Packaging Group	II
Environmental Hazards	No data available

Section 15: Regulatory Information

CERCLA/SARA Hazardous Substances - Not applicable. One or more components are not listed on TSCA. Superfund Amendments and Reauthorization Act of 1986 (SARA). Hazard categories: Immediate Hazard -Yes Delayed Hazard - Yes Fire Hazard -No Pressure Hazard -No Reactivity Hazard -No. SARA 302 Extremely hazardous substance: No SARA 311/312 Hazardous chemical: No Other federal regulations Safe Drinking Water Act (SDWA) Not regulated. Food and Drug Administration (FDA) Not regulated. Us state regulations: California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

Section 16: Other Information

Additional Information	N/A
Prepared By	Lisa Russell
Revision Date	05/21/2019 11:52

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