

Safety Data Sheet

Section 1: Product & Company Identification		
Product Name:	Ivermectin	
Product #:	1-2570	
Synonyms:	22,23-dihydro Avermectin B1; L-640,471; MK-933	
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925	
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585	

Section 2: Composition / Information on Ingredients			
Component	CAS#	EC#	% Composition
Ivermectin	70288-86-7	274-536-0	≥98%

Symbols Symbols

HMIS Rating

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
3	*	0	0

NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard
4	0	0

Section 4: First Aid Measures		
General Overview:	Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least. 48 hours after the accident. In case of irregular breathing or respiratory arrest provide artificial respiration.	



Inhalation:	In case of unconsciousness place patient stably in side position for
	transportation.
Skin:	Immediately wash with water and soap and rinse thoroughly.
Eyes:	Rinse opened eyes for several minutes under running water. Then consult a doctor.
Ingestion:	Do not induce vomiting; immediately call for medical help.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5:	Fire Fighting Measures
Flammability of	Product is not flammable
the product:	
Extinguishing	Use fire fighting measures that suit the environment. A solid water stream
Media:	may be inefficient.
Hazardous	No data available
thermal	
(de)composition	
products:	
Special Fire	No special measures required.
Fighting	
Procedures:	
Flash Point:	No data available

Section 6: Accidental Release Measures		
Personal	Not required.	
Precautions:		
Environmental	Inform respective authorities in case of seepage into water course or sewage	
Precautions:	system. Do not allow to enter sewers/surface or ground water.	
Methods for	Dispose contaminated material as waste according to section 13.	
Clean-up:		

SECTION 7:	Handling & Storage
Storage:	Recommended storage temperature: -20°C
Handling:	Thorough dedusting.

SECTION 8: Expos	ure controls / Personal Protection
Respiratory Protection:	



	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Skin and Body:	Lab coat and protective gloves. The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Eyes:	Tightly sealed goggles
Ventilation/Engineering Measures:	Ensure adequate ventilation.
Hygiene:	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin.
Other:	Contains no substances with occupational exposure limit values.

SECTION 9: P	hysical and Chemical Properties
Appearance &	Solid. Characteristic odor.
Odor:	



Formula	C ₄₈ H ₇₄ O ₁₄ (for Ivermectin B _{1a})
Molecular Wt.	875.1
Melting Pt.	No data available
Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	DMF (3 mg/mL); DMSO (1 mg/mL); Ethanol (1 mg/mL)
Flash Point:	No data available
Autoignition	No data available
Temp:	

SECTION 10: Stability and Reactivity	
Stability:	No decomposition if used according to specifications.
Hazardous	No data available
decomposition	
products:	
Materials to Avoid:	No data available
Conditions to avoid:	No data available

SECTION 11: Toxicological Information	
RTECS#:	N/A
ACUTE Toxicity:	N/A
CHRONIC Toxicity:	N/A
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA

SECTION 12: Ec	ological Information
Ecotoxicity:	Water hazard class 3 (Self-assessment): extremely hazardous for water. Do not allow product to reach ground water, water course or sewage
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	system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms.
Mobility:	No data available
Persistence and	No data available
degradability:	
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	No data available

SECTION 13: Disposal Considerations	
Residue Waste or	Must not be disposed of together with household garbage. Do not allow
Unused product:	product to reach sewage system.
Contaminated	Disposal must be made according to official regulations.
Packaging:	

SECTION 14: Transportation Information	
UN ID#:	UN3288
ADR / RID (LAND):	N/A
DOT regulations:	Toxic solid, inorganic, n.o.s. (Ivermectin)
	Class: 6.1 Toxic substances
	Label 6.1
	Packing group: I
	Overskit v limit at i an av
	Quantity limitations:
	On passenger aircraft/rail: 5 kg
1145 0 (1140 105 1)	On cargo aircraft only: 50 kg
IMDG/IMO (SEA):	TOXIC SOLID, INORGANIC, N.O.S. (Ivermectin)
	Class: 6.1 Toxic substances
	Label 6.1
	Packing group: I
	Limited quantities (LQ): 0
	Excepted quantities (EQ) Code: E5
	Maximum net quantity per inner packaging: 1 g
	Maximum net quantity per outer packaging: 300 g
IATA/DGR (AIR):	Toxic solid, inorganic, n.o.s. (Ivermectin)
	Class 6.1 Toxic substances
	Label 6.1



	Packing group: I
	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De
	Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
Special Provisions:	Environmentally hazardous substance, solid
	Warning: Toxic substances
	Hazard identification number (Kemler code): 66
	EMS Number: F-A,S-A
	Stowage Category: B

SECTION 15: Regulatory Information	
Health Phrases:	Danger! H300 Fatal if swallowed. H311 Toxic in contact with skin. H361 Suspected of damaging fertility or the unborn child. H370 Causes damage to organs. H372 Causes damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Risk Phrases:	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapors/spray. P264 Wash 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.
Safety Phrases:	P301+P310 If swallowed: Immediately call a poison center/doctor. P321 Specific treatment (see on this label). P330 Rinse mouth. P302+P352 If on skin: Wash with plenty of water. P308+P313 IF exposed or concerned: Get medical advice/attention. P312 Call a poison center/doctor if you feel unwell. P314 Get medical advice/attention if you feel unwell. P361+P364 Take off immediately all contaminated clothing and wash it before reuse. P391 Collect spillage. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
EU Regulations:	N/A
US Regulations:	TSCA: Not listed California Proposition 65: No products were found



U.S. Federal Regulations:	SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. SARA 313 toxic chemicals notification and release reporting: No products were found.
	Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found.
	Clean Air Act (CAA) 112 regulated flammable substances: No products were found.
	Clean Air Act (CAA) 112 regulated toxic substances: No products were found.
	OSHA: Acute Toxicity - Oral (Cat. 2), Acute Toxicity - Dermal (Cat. 3); Toxic to Reproduction (Cat. 2); Specific Target Organ Toxicity - Single Exposure (Cat. 1); Specific Target Organ Toxicity - Repeated Exposure (Cat. 1); Aquatic Acute (Cat. 1); Aquatic Chronic (Cat. 1)
WHMIS (Canada):	N/A

SECTION 16: Other Information

LIABILITY STATEMENT: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.