



SAFETY DATA SHEET

Preparation Date: 2/5/2018 Revision date 12/5/2018 Revision Number: G2

1. Identification

Product identifier

Product code: 13003

Product Name: IVERMECTIN, USP

Other means of identification

Synonyms: Ivermectin is a mixture of avermectin A1a (component H2B1a (CAS no.

71827-03-7)) and avermectin A1a (component H2B1b (CAS no. 70209-81-3))

CAS #: 70288-86-7
RTECS # IH7891500
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Medication.

Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 2
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 2

Label elements

Danger

Hazard statements

Fatal if swallowed Fatal if inhaled

Toxic in contact with skin



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection Wear protective gloves Wear protective clothing

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of water

Call a POISON CENTER or doctor/physician if you feel unwell

Remove/Take off immediately all contaminated clothing

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
Ivermectin	70288-86-7	100

4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

> have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect

himself.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the

substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is

required.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Fatal if swallowed. Immediate medical attention is required. Call a

physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

Symptoms May cause headache

May cause dizziness

tiredness Seizures

May cause incoordination
May cause nausea and vomiting

Abdominal pain May cause diarrhea May affect eyes/vision

Joint pain Weakness

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Dry chemical. Carbon dioxide (CO2). Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous combustion products Carbon Monoxide, Carbon Dioxide.

Specific hazards May be combustible at high temperatures.

Special Protective Actions for Firefighters

Specific Methods: No information available

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid

contact with skin, eyes and clothing. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Avoid breathing dust. Remove all sources of ignition.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Prevent from entering into soil, ditches, sewers, waterways, and/or ground water.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed. Store in cool place. Keep refrigerated. Keep at temperatures between 2 and 8 °C. Store away from incompatible materials. Store in a segregated and approved area.

Incompatible Materials:

Strong oxidizing agents

Alkalis

Acids

Bases

Ammonia

Peroxides

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Ivermectin	70288-86-7	None	None	None	None

Canada

Component	CAS No	Canada - Alberta	Canada - British	Canada - Ontario	Canada - Quebec

			Columbia		
Ivermectin	70288-86-7	None	None	None	None

Australia and Mexico

Component	CAS No	Australia	Mexico
Ivermectin	70288-86-7	None	None

Appropriate engineering controls

Engineering measures to reduce exposure: Ensure adequate ventilation, especially in confined areas.

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure

limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles or Safety glasses with side-shields.

Skin and body protection: Chemical resistant apron

Gloves

Long sleeved clothing

Respiratory protection: Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or

smoke. Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidNeedles. Crystalline powder.White.

Odor: Taste Formula

No information available. No information available. No information available

Molecular/Formula weight (g/mole): Flammability (solid, gas) Flashpoint (°C/°F):

No information available no data available No information available

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%):

Not available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 150-157°C/302-314.6°F No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

No information available No information available No information available

Specific gravity:

No information available pH Vapor pressure @ 20°C (kPa):

No information available No information available

Evaporation rate: Vapor density: VOC content (g/L):

No information available
No information available
No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

3.94

Miscibility: Solubility:

No information available Practically insoluble in water

10. STABILITY AND REACTIVITY

Reactivity

No information available

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> Heat. Avoid dust formation. Incompatible materials.

<u>Incompatible Materials:</u> Strong oxidizing agents

Alkalis Acids Bases Ammonia Peroxides

Hazardous decomposition

products:

No information available.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Skin. Ingestion. Inhalation.

Acute Toxicity

Component Information

Ivermectin
CAS No 70288-86-7

LD50/oral/rat = 10 mg/kg Oral LD50 Rat = 2 mg/kg Oral LD50 Rat

LD50/oral/mouse = 25 mg/kg

LD50/dermal/rabbit = No information available

LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat =

Value - Acute Tox Dermal = 10 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 25 mg/kg

LD50/dermal/rabbit

Value - Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE - Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: Toxic in contact with skin. May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation Fatal if inhaled. May cause irritation of respiratory tract.

Ingestion Fatal if swallowed. May affect behavior/central nervous system (dizziness,

headache). May affect behavior/central nervous system (ataxia). May affect behavior/central nervous system (tiredness). May affect behavior/central nervous system (convulsions/seizures). Ingestion may cause nausea, vomiting. May cause diarrhea. May cause abdominal pain. May cause joint pain. May cause weakness.

May cause vision disturbances. May affect the cardiovascular system

(tachycardia). May cause difficulty breathing. May cause skin rash, redness or

itching.

Aspiration hazard No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available.

Sensitization: No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

	Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Iverme	ectin	70288-86-7	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.
No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Ivermectin	70288-86-7	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN2811

Proper Shipping Name: Toxic solids, organic, n.o.s. (ivermectin)

Hazard Class 6.

Subsidiary Class No information available

Packing group: II Emergency Response Guide 154

Number

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsIB8, IP2, IP4, T3, TP33

Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical

names of the hazardous material must be entered in parentheses, in association

with the basic description.

Description: UN2811, Toxic solids, organic, n.o.s., 6.1, II

TDG (Canada)

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No Information available

Description: UN2811, Toxic solid, organic, n.o.s., 6.1, II

ADR

UN Number UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Transport hazard class(es) 6.1 Packing group

Subsidiary Risk: No information available

Special Provisions 274, 614

Description: UN2811, Toxic solid, organic, n.o.s., 6.1, II

IMDG

UN-No: UN2811

Proper Shipping Name: Toxic solids, organic, n.o.s. (ivermectin)

Hazard Class: 6.1

Subsidiary Risk: No information available

Packing Group:

Marine Pollutant No information available

EMS: F-A Special Provisions 274

Description UN2811, Toxic solid, organic, n.o.s. (IVERMECTIN), 6.1, II

RID

UN Number UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Transport hazard class(es) 6.1

Subsidiary Risk: No information available

Packing group II Special Provisions 274, 614

Description: UN2811, Toxic solid, organic, n.o.s., 6.1, II

ICAO (air)

UN-No: UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Hazard Class 6.1

Subsidiary Risk: No information available

Packing Group:

Description: UN2811, Toxic solid, organic, n.o.s., 6.1, II

Special Provisions A3, A5

IATA

UN Number UN2811

Proper Shipping Name: Toxic solid, organic, n.o.s.

Transport hazard class(es) 6.7

Subsidiary Risk: No information available

Packing group II Precautionary Statements - 6L

Response

Special Provisions No information available

Description: UN2811, Toxic solid, organic, n.o.s., 6.1, II

15. REGULATORY INFORMATION

International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
Ivermectin	70288-86-7	Not Listed	Not present	Not present	Not present	Not listed	Not listed	Present 274-536-0

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity	Male	Female
		_		Reproductive	Reproductive
				Toxicity	Toxicity:
Ivermectin	70288-86-7	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Component	CAS No	CERCLA - Hazardous Substances and their Reportable	Section 302 Extremely Hazardous Substances	Section 302 Extremely Hazardous Substances and	Section 313 - Chemical Category	Section 313 - Reporting de minimis
		Quantities	and TPQs	RQs		
Ivermectin	70288-86-7	None	None	None	None	None

U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Ivermectin	70288-86-7	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification The WHMIS 2015 classification of this product has not been validated or reviewed yet.

Information:

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)	
Ivermectin	70288-86-7	Present	Not Listed	

Component	CAS No	CEPA Schedule I - Toxic Substances	
Ivermectin	70288-86-7	Not listed CEPA - 2010 Greenhouse Gases Subject	
Component	CAS No		
		to Mandatory Reporting	
Ivermectin	70288-86-7	Not listed	

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)	
Ivermectin	70288-86-7	No information	

EU - CLP (1272/2008)

R-phrase(s)

R28 - Very toxic if swallowed

R26 - Very toxic by inhalation

R24 - Toxic in contact with skin

S -phrase(s)

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

C	Component	CAS No	 Concentration Limits:	Safety Phrases
Ī	vermectin	70288-86-7	No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

T+ - Very toxic

T - Toxic





16. OTHER INFORMATION

Preparation Date: 2/5/2018
Revision date 12/5/2018
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet