

according to the OSHA Hazard Communication Standard

Ivermectin / Pyrantel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
10.1	09/30/2023	52652-00029	Date of first issue: 02/02/2015

SECTION 1. IDENTIFICATION

Product name	:	Ivermectin / Pyrantel Formulation		
Manufacturer or supplier's	deta	ails		
Company name of supplier	:	Merck & Co., Inc		
Address	:	126 E. Lincoln Avenue		
		Rahway, New Jersey U.S.A. 07065		
Telephone	:	908-740-4000		
Emergency telephone	:	1-908-423-6000		
E-mail address	:	EHSDATASTEWARD@merck.com		
Recommended use of the chemical and restrictions on use				

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

GHS label elements

Signal Word	:	Warning
Hazard Statements	:	If small particles are generated during further processing, han- dling or by other means, may form combustible dust concentra- tions in air.

Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

:

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
4,4'-Methylenebis[3-hydroxy-2-	22204-24-6	8.6
naphthoic] acid, compound with (E)-		
1,4,5,6-tetrahydro-1-methyl-2-[2-(2-		
thienyl)vinyl]pyrimidine (1:1)		
Propylene glycol	57-55-6	4.6
Ivermectin	70288-86-7	0.02

SECTION 4. FIRST AID MEASURES

General advice

In the case of accident or if you feel unwell, seek medical advice immediately.



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		When syn advice.	nptoms persist or in all cases of doubt seek medical			
lf inha	aled	,	remove to fresh air. al attention if symptoms occur.			
In cas	e of skin contact	: Wash with	a water and soap. al attention if symptoms occur.			
In case of eye contact		: If in eyes,	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.			
If swallowed		: If swallow Get medic	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.			
and e delaye Prote	important symptoms ffects, both acute and ed ction of first-aiders to physician	: Contact w the skin. Dust conta : No specia	ith dust can cause mechanical irritation or drying of act with the eyes can lead to mechanical irritation. I precautions are necessary for first aid responders. ptomatically and supportively.			

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Metal oxides Chlorine compounds
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment.





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		Retain and c	ner leakage or spillage if safe to do so. lispose of contaminated wash water. ities should be advised if significant spillages ontained.
	ds and materials for ment and cleaning up	container for Avoid disper with compres Dust deposit surfaces, as released into Local or nati disposal of th employed in determine w Sections 13	sal of dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	: Do not breathe dust.
	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
	Minimize dust generation and accumulation.
	Keep container closed when not in use.
	Keep away from heat and sources of ignition.
	Take precautionary measures against static discharges.
	Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	: Keep in properly labeled containers.
	Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	15 mg/m ³

15 mg/m³ Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3





/ersion I0.1	Revision Date: 09/30/2023	SDS Number: 52652-00029		st issue: 04/04/2023 st issue: 02/02/2015			
		Basis: OSHA	Z-3	e): TWA (respirable fra	ction)		
				foot e): TWA (respirable fra	ction)		
Dust, ticula	nuisance dust and par- tes	10 mg/m³ Value type (Fe Basis: CAL Pl		e): PEL (Total dust)			
			5 mg/m³ Value type (Form of exposure): PEL (respirable dust fraction) Basis: CAL PEL				
Comp	ponents	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
napht with (methy	/lethylenebis[3-hydroxy-2 thoic] acid, compound E)-1,4,5,6-tetrahydro-1- yl-2-[2-(2- /l)vinyl]pyrimidine (1:1)	- 22204-24-6	TŴA	250 µg/m3 (OEB 2)	Internal		
	/lene glycol	57-55-6	TWA	10 mg/m ³	US WEEL		
lverm		70288-86-7	TWA	30 µg/m3 (OEB 3)	Internal		
		Further inform	ation: Skin	-	-		
			Wipe limit	300 µg/100 cm2	Internal		
	neering measures	design and o protect produ Containment are required the compoun containment Minimize ope	All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.				
	onal protective equipme						
Respiratory protection :		maintain vap concentratior unknown, ap Follow OSHA use NIOSH/N by air purifyir hazardous ch supplied resp release, expo circumstance	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide				
Hand	protection	adequate pro	tection.				

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Ma	aterial	: Chemical-resis	stant gloves			
Remarks Eye protection		: Wear safety gl If the work env mists or aeros Wear a facesh	 Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. 			
Skin and body protection		Additional bod task being per disposable sui Use appropria	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.			
Hygiene measures		: If exposure to eye flushing sy working place. When using do Wash contami The effective of engineering co appropriate de industrial hygie	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	brown
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	4 - 6 (68 °F / 20 °C) (as aqueous solution)
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	Not applicable



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	er explosion limit / Upper mability limit	:	No data available	9
	er explosion limit / Lower mability limit	:	No data available	9
Vap	or pressure	:	Not applicable	
Rela	tive vapor density	:	Not applicable	
Rela	tive density	:	No data available	9
Den	sity	:	No data available	9
	bility(ies) Vater solubility	:	No data available	
	ition coefficient: n- nol/water	:	log Pow: 3.22	
	ignition temperature	:	No data available	9
Dec	omposition temperature	:	No data available	9
	osity /iscosity, kinematic	:	Not applicable	
Expl	osive properties	:	Not explosive	
Oxic	lizing properties	:	The substance o	r mixture is not classified as oxidizing.
Mole	ecular weight	:	No data available	9
Part	icle size	:	No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	: :	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition	:	Oxidizing agents No hazardous decomposition products are known.
products		





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SECTION 11. TOXICOLOGICAL INFORMATION					

Information on likely route Inhalation Skin contact Ingestion Eye contact	s of	exposure
Acute toxicity Not classified based on avail	ahla	information
	abie	
<u>Product:</u> Acute oral toxicity	:	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:		
methyl-2-[2-(2-thienyl)vinyl]pyr	naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1- imidine (1:1): LD50 (Rat): > 24,000 mg/kg
,		
		LD50 (Mouse): > 24,000 mg/kg
		LD50 (Dog): 2,000 mg/kg
Propylene glycol:		
Acute oral toxicity	:	LD50 (Rat): 22,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 44.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity
lvermectin:		
Acute oral toxicity	:	LD50 (Rat): 50 mg/kg
		LD50 (Mouse): 25 mg/kg
		LD50 (Monkey): > 24 mg/kg Target Organs: Central nervous system Symptoms: Vomiting, Dilatation of the pupil Remarks: No mortality observed at this dose.
Acute inhalation toxicity	:	LC50 (Rat): 5.11 mg/l Exposure time: 1 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): 406 mg/kg

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LD50 (Rat): > 660 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

Propylene glycol:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation

Ivermectin:

Species	:	Rabbit
Result	:	No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Propylene glycol:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

Ivermectin:

Species	:	Rabbit
Result	:	Mild eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

Propylene glycol:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	negative

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Routes of exposure	:	Dermal
Species	:	Humans
Result	:	Does not cause skin sensitization.

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Germ cell mutagenicity

Not classified based on available information.

Components:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Propylene glycol: : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative	4,4'-Methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1- methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):				
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473		Test Type: Bacterial reverse mutation assay (AMES)			
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473	Propylene glycol:				
Method: OECD Test Guideline 473					
		Method: OECD Test Guideline 473			
Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative	Genotoxicity in vivo :	cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection			
Result. negative		Result. negative			
Ivermectin:	Ivermectin:				
Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES) Result: negative	Genotoxicity in vitro :				
Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Test system: human diploid fibroblasts Result: negative		thesis in mammalian cells (in vitro) Test system: human diploid fibroblasts			
Test Type: Mouse Lymphoma Result: negative					
Carcinogenicity	Carcinogenicity				
Not classified based on available information.	• •	e information.			
Components:	Components:				
Propylene glycol:	Propylene glycol:				
Species:RatApplication Route:IngestionExposure time:2 YearsResult:negative	Application Route : Exposure time :	Ingestion 2 Years			

Ivermectin:

Species	:	Rat
Application Route	:	Oral



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NOAE Resul Rema	t	 1.5 mg/kg body negative Based on data 	weight from similar materials
Speci Applic NOAE Resul Rema	cation Route EL t	: Mouse : Oral : 2.0 mg/kg body : negative : Based on data :	weight from similar materials
IARC	5	• •	ent at levels greater than or equal to 0.1% is confirmed human carcinogen by IARC.
OSHA	•	ent of this product pres ist of regulated carcin	sent at levels greater than or equal to 0.1% is ogens.
NTP			ent at levels greater than or equal to 0.1% is ad carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

4,4'-Methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):

Effects on fetal development :	Test Type: Embryo-fetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 3,000 mg/kg body weight Result: No effects on fertility and early embryonic development were detected. Test Type: Embryo-fetal development Species: Rabbit Application Route: Oral Developmental Toxicity: NOAEL: 1,000 mg/kg body weight Result: No effects on fertility and early embryonic development were detected.
Propylene glycol:	
Effects on fertility :	Test Type: Two-generation reproduction toxicity study Species: Mouse Application Route: Ingestion Result: negative
Effects on fetal development :	Test Type: Embryo-fetal development Species: Mouse Application Route: Ingestion Result: negative

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rsion .1	Revision Date: 09/30/2023	-	0S Number: 652-00029	Date of last issue: 04/04/2023 Date of first issue: 02/02/2015
Effect	s on fertility	:		
Effect	s on fetal development	:	Result: Teratog)
			Result: Embryo offspring were of	te: Oral Toxicity: LOAEL: 0.4 mg/kg body weight toxic effects and adverse effects on the letected. nechanism or mode of action may not be rele-
STOT	-single exposure			
-	assified based on availa conents:	able	information.	
	ectin:			
Targe	t Organs ssment	:	Central nervous Causes damage	
	-repeated exposure assified based on availa	able	information.	
Comp	oonents:			
lverm	ectin:			
	t Organs ssment	:	Central nervous Causes damage exposure.	s system e to organs through prolonged or repeated

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Repeated dose toxicity

Components:

4,4'-Methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):

Species NOAEL LOAEL Application Route Exposure time Remarks	 Dog 10 mg/kg 30 mg/kg Ingestion 3 d No significant adverse effects were reported
Species NOAEL Application Route Exposure time Remarks	 Dog 600 mg/kg Oral 19 d No significant adverse effects were reported
Species NOAEL Application Route Exposure time Remarks	 Dog 600 mg/kg Oral 30 d No significant adverse effects were reported
Species NOAEL Application Route Exposure time Remarks	 Dog 600 mg/kg Oral 90 d No significant adverse effects were reported
Propylene glycol: Species NOAEL Application Route Exposure time	 Rat, male >= 1,700 mg/kg Ingestion 2 y
Ivermectin: Species NOAEL LOAEL Application Route Exposure time Target Organs Symptoms	 Dog 0.5 mg/kg 1 mg/kg Oral 14 Weeks Central nervous system Dilatation of the pupil, Tremors, Lack of coordination, anorexia
Species NOAEL Application Route Exposure time Remarks	 Monkey 1.2 mg/kg Oral 2 Weeks No significant adverse effects were reported
Species	: Rat





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Expo			0.4 mg/kg 0.8 mg/kg Oral 3 Months spleen, Bone	marrow, Kidney
•	ration toxicity lassified based on ava	ailable	information.	

Experience with human exposure

Components:

4,4'-Methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):

Ingestion	: Symptoms: Abdominal pain, Nausea, Vomiting, Diarrhea, Headache, Dizziness, Fever
Ivermectin:	
Skin contact	: Remarks: Can be absorbed through skin.
Eye contact	: Remarks: May irritate eyes.
Ingestion	: Symptoms: Drowsiness, Dilatation of the pupil, Tremors, Vom- iting, anorexia, Lack of coordination

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.003 mg/l Exposure time: 96 h
	LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.0048 mg/l Exposure time: 96 h
:	EC50 (Daphnia magna (Water flea)): 0.000025 mg/l Exposure time: 48 h
:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 9.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)): 9.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

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Components:

4,4'-Methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):

Ecotoxicology Assessment Acute aquatic toxicity	:	Toxic effects cannot be excluded
Chronic aquatic toxicity	:	Toxic effects cannot be excluded
Propylene glycol: Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 (Skeletonema costatum (marine diatom)): 19,300 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	NOEC (Ceriodaphnia dubia (water flea)): 13,020 mg/l Exposure time: 7 d
ic toxicity) Toxicity to microorganisms	:	NOEC (Pseudomonas putida): > 20,000 mg/l Exposure time: 18 h
lvermectin:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.003 mg/l Exposure time: 96 h
		LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.0048 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.000025 mg/l Exposure time: 48 h
· · · · · · · · · · · · · · · · · · ·	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 9.1
plants		mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 9.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Persistence and degradability	у	
Product:		
		Desult: Net readily his degradable

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		Exposure time	e: 240 d	
Com	ponents:			
Prop	ylene glycol:			
-	egradability	Biodegradatic Exposure time	Result: Readily biodegradable. Biodegradation: 98.3 % Exposure time: 28 d Method: OECD Test Guideline 301F	
lvern	nectin:			
Biode	egradability	: Result: Not readily biodegradable. Biodegradation: 50 % Exposure time: 240 d		
Bioa	ccumulative potentia	I		
Prod	uct:			
Bioac	cumulation	: Bioconcentrat	ion factor (BCF): 74	
Com	ponents:			
Prop	ylene glycol:			
	ion coefficient: n- iol/water	: log Pow: -1.0 Method: Regu	7 Ilation (EC) No. 440/2008, Annex, A.8	
lvern	nectin:			
Bioac	cumulation	: Bioconcentrat	ion factor (BCF): 74	
	ion coefficient: n- ol/water	: log Pow: 3.22		
Mobi	lity in soil			
No da	ata available			
Othe	r adverse effects			
No da	ata available			

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Dispose of in accordance with local regulations.
	Do not dispose of waste into sewer.
Contaminated packaging	 Empty containers should be taken to an approved waste handling site for recycling or disposal.
	If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations





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UN Pro Cla	NRTDG N number oper shipping name	N.O.S. (Ivermecti : 9	MENTALLY HAZARDOUS SUBSTANCE, SOLID, n)			
La	icking group bels wironmentally hazardous	: III : 9 : yes				
UN Pre	TA-DGR J/ID No. oper shipping name	(Ivermecti	UN 3077 Environmentally hazardous substance, solid, n.o.s. (Ivermectin)			
Pa La Pa air	ass icking group bels icking instruction (cargo craft) icking instruction (passen-	: 9 : III : Miscellane : 956 : 956	ous			
	r aircraft) wironmentally hazardous	: yes				
١U	DG-Code N number oper shipping name	: UN 3077 : ENVIRON N.O.S. (Ivermectir	MENTALLY HAZARDOUS SUBSTANCE, SOLID,			
Pa La En	ass icking group bels nS Code arine pollutant	: 9 : III : 9 : F-A, S-F : yes	7			
	ansport in bulk according ot applicable for product as		MARPOL 73/78 and the IBC Code			
	omestic regulation					
UN	CFR I/ID/NA number oper shipping name	: UN 3077 : Environme (Ivermecti	ntally hazardous substance, solid, n.o.s. n)			
Pa La EF Ma	ass icking group bels RG Code arine pollutant emarks	 9 III CLASS 9 171 yes(Iverme Above appliters. Shipment may be shipped s				



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Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Combustible dust	

SARA 313	:	This material does not contain any chemical components with
		known CAS numbers that exceed the threshold (De Minimis)
		reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

Soybean proteins	9010-10-0
4,4'-Methylenebis[3-hydroxy-2-naphthoic] acid, compound	22204-24-6
with (E)-1,4,5,6-tetrahydro-1-methyl-2-[2-(2-	
thienyl)vinyl]pyrimidine (1:1)	
D(+)-Glucose monohydrate	5996-10-1
Propylene glycol	57-55-6
D-Glucono-1,5-lactone	90-80-2

California Prop. 65

WARNING: This product can expose you to chemicals including tert-Butyl-4-methoxyphenol, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

The ingredients of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

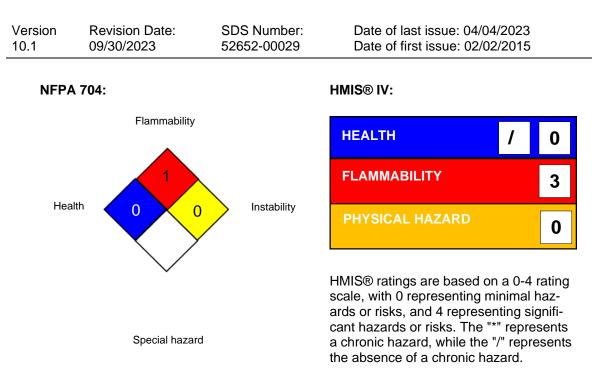
SECTION 16. OTHER INFORMATION

Further information



according to the OSHA Hazard Communication Standard

Ivermectin / Pyrantel Formulation



Full text of other abbreviations

CAL PEL	:	California permissible exposure limits for chemical contami- nants (Title 8, Article 107)
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
CAL PEL / PEL	:	Permissible exposure limit
OSHA Z-3 / TWA	:	8-hour time weighted average
US WEEL / TWA	:	8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods: IMO - International Maritime Organization: ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-



according to the OSHA Hazard Communication Standard

Ivermectin / Pyrantel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
10.1	09/30/2023	52652-00029	Date of first issue: 02/02/2015

stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

Revision Date : 09/30/2023

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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