



### Ivermectin / Pyrantel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
3.2	09/28/2024	52637-00031	Date of first issue: 02/02/2015

### **SECTION 1. IDENTIFICATION**

Product name	:	Ivermectin / Pyrantel Formulation
Other means of identification	:	No data available

### Manufacturer or supplier's details

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 Hazardous Products Regulations

Not a hazardous substance or mixture.

#### **GHS** label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

#### Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

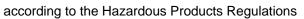
### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
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)	No data availa- ble	22204-24-6	8.6
Propylene glycol	1,2-Propanediol	57-55-6	4.6
Ivermectin	No data availa- ble	70288-86-7	0.02

### **SECTION 4. FIRST AID MEASURES**





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General advice		advice immed When sympto	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.		
lf inha	aled	: If inhaled, ren	nove to fresh air. attention if symptoms occur.		
In cas	se of skin contact	: Wash with wa	Wash with water and soap. Get medical attention if symptoms occur.		
In case of eye contact		: If in eyes, rins	se well with water.		
If swallowed		: If swallowed, Get medical a	DO NOT induce vomiting. attention if symptoms occur. thoroughly with water.		
and e delay Prote	Most important symptoms and effects, both acute and delayedContact with dust can cause mechanical irritation or d the skin. Dust contact with the eyes can lead to mechanical irri No special precautions are necessary for first aid resp Treat symptomatically and supportively.		dust can cause mechanical irritation or drying of with the eyes can lead to mechanical irritation. ecautions are necessary for first aid responders.		

### 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



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Personal precautions, protec- : tive equipment and emer- gency procedures Environmental precautions :		:		ng advice (see section 7) and personal ent recommendations (see section 8).	
	Enviror	nmental precautions	:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. hould be advised if significant spillages
		ls and materials for ment and cleaning up	:	container for dispo Avoid dispersal of with compressed a Dust deposits sho surfaces, as these released into the a Local or national r disposal of this ma employed in the cl determine which r Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

### SECTION 7. HANDLING AND STORAGE

Technical measures	<ul> <li>Static electricity may accumulate and ignite suspended dust causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.</li> </ul>
Local/Total ventilation Advice on safe handling	<ul> <li>Use only with adequate ventilation.</li> <li>Do not breathe dust.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Minimize dust generation and accumulation.</li> <li>Keep container closed when not in use.</li> <li>Keep away from heat and sources of ignition.</li> <li>Take precautionary measures against static discharges.</li> <li>Take care to prevent spills, waste and minimize release to the environment.</li> </ul>
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

Components CAS-No. Value type Control parame-	Basis
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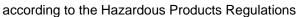
according to the Hazardous Products Regulations

sion	09/28/2024	Revision Date:         SDS Number:           09/28/2024         52637-00031		Date of last issue: 09/30/2023 Date of first issue: 02/02/2015			
			(Form of exposure)	ters / Permissible concentration			
napht with ( methy	Nethylenebis[3-hydroxy- thoic] acid, compound E)-1,4,5,6-tetrahydro-1- yl-2-[2-(2- yl)vinyl]pyrimidine (1:1)		TWA	250 μg/m3 (OEB 2)	Internal		
	/lene glycol	57-55-6	TWA (Va- pour and aerosols)	50 ppm 155 mg/m³	CA ON O		
			TWA (aero- sol)	10 mg/m <sup>3</sup>	CA ON C		
lverm	ectin	70288-86-7	TWA	30 µg/m3 (OEB 3)	Internal		
		Further infor		-			
			Wipe limit	300 µg/100 cm2	Internal		
Doros	anal protoctive active	are required the compou containmen Minimize op	to control at sound to uncontrolled	iitable for controlling c rce and to prevent mi d areas (e.g., open-fa	gration of		
	onal protective equipr						
·	iratory protection	exposure as recommend	ssessment demor led guidelines, us	ntilation is not availabl Instrates exposures ou e respiratory protectio	tside the		
	lter type protection	: Particulates	туре				
Ma	aterial	: Chemical-re	esistant gloves				
	emarks protection	: Wear safety If the work e mists or aer Wear a face	environment or ac osols, wear the a eshield or other fu	e shields or goggles. tivity involves dusty c ppropriate goggles. Il face protection if the the face with dusts, m	ere is a		
Skin a	and body protection	: Work unifor Additional b task being p disposable Use approp contaminate	performed (e.g., s suits) to avoid exp riate degowning t ed clothing.	ould be used based u leevelets, apron, gaur bosed skin surfaces. echniques to remove	ntlets, potentially		
Hygie	ene measures	: If exposure eye flushing working plac When using Wash conta	Use appropriate degowning techniques to remove potentially contaminated clothing. 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				



according to the Hazardous Products Regulations

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			appropriate degov	ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the ive controls.
SECTION	9. PHYSICAL AND CHI	EMIC	CAL PROPERTIES	8
Арре	arance	:	powder	
Color		:	brown	
Odor		:	No data available	9
Odor	Threshold	:	No data available	9
рН		:	4 - 6 (20 °C) (as aqueous solu	ition)
Meltir	ng point/freezing point	:	No data available	)
Initial range	boiling point and boiling	:	No data available	3
Flash	n point	:	Not applicable	
Evap	oration rate	:	Not applicable	
Flam	mability (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.
Flam	mability (liquids)	:	Not applicable	
	er explosion limit / Upper nability limit	:	No data available	
	er explosion limit / Lower nability limit	:	No data available	
Vapo	r pressure	:	Not applicable	
Relat	ive vapor density	:	Not applicable	
Relat	ive density	:	No data available	9
Dens	ity	:	No data available	9
	bility(ies) /ater solubility	:	No data available	9
	ion coefficient: n-	:	log Pow: 3.22	
	ol/water gnition temperature	:	No data available	9
Deco	mposition temperature	:	No data available	)





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	osity Iscosity, kinematic osive properties	: Not applicabl : Not explosive	
Oxidizing properties		: The substand	e or mixture is not classified as oxidizing.
Molecular weight		: No data avail	able
Particle characteristics Particle size		: No data avail	able

### 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 products	:	Oxidizing agents No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

### Acute toxicity

Not classified based on available information.

#### Product:

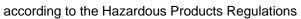
Acute oral toxicity

: Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method

### **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):

Acute oral toxicity	:	LD50 (Rat): > 24,000 mg/kg
		LD50 (Mouse): > 24,000 mg/kg
		LD50 (Dog): 2,000 mg/kg



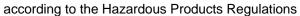


rsion 2	Revision Date: 09/28/2024	SDS Numbe 52637-00031	
	ylene glycol:		
Acute	e oral toxicity	: LD50 (Ra	it): 22,000 mg/kg
Acute	e inhalation toxicity	Exposure	it): > 44.9 mg/l time: 4 h psphere: dust/mist
Acute	e dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute toxicity	
lverm	nectin:		
Acute	e oral toxicity	: LD50 (Ra	t): 50 mg/kg
		LD50 (Me	buse): 25 mg/kg
		Target O Symptom	onkey): > 24 mg/kg rgans: Central nervous system is: Vomiting, Dilatation of the pupil : No mortality observed at this dose.
Acute	e inhalation toxicity	Exposure	it): 5.11 mg/l time: 1 h psphere: dust/mist
Acute	e dermal toxicity	: LD50 (Ra	ibbit): 406 mg/kg
		LD50 (Ra	it): > 660 mg/kg
Not cl	corrosion/irritation lassified based on ava	ailable informatio	n.
Speci	ylene glycol:	: Rabbit	
Metho			est Guideline 404
Resul		: No skin i	
lverm	nectin:		
Speci	ies	: Rabbit	
Resul		: No skin i	ritation
Serio	ous eye damage/eye	irritation	
	lassified based on ava	ailable informatio	n.
Not cl			
	ponents:		
<u>Com</u>	<u>ponents:</u> ylene glycol:		



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ersion 2	Revision Date: 09/28/2024	SDS Number: 52637-00031	Date of last issue: 09/30/2023 Date of first issue: 02/02/2015					
Result Method		: No eye irritation : OECD Test Gui	<ul><li>No eye irritation</li><li>OECD Test Guideline 405</li></ul>					
lvern	nectin:							
Spec Resu		: Rabbit : Mild eye irritatio	n					
Resp	biratory or skin sens	sitization						
Skin	sensitization							
Not c	classified based on av	vailable information.						
Resp	piratory sensitizatio	n						
Not c	classified based on av	vailable information.						
<u>Com</u>	ponents:							
Prop	ylene glycol:							
		: Maximization Te : Skin contact : Guinea pig : negative	est					
lvern	nectin:							
Route Spec Resu		: Dermal : Humans : Does not cause	skin sensitization.					
	n cell mutagenicity	vailable information.						
Com	ponents:							
4,4'-1	Methylenebis[3-hyd	roxy-2-naphthoic] acid, nyl]pyrimidine (1:1):	compound with (E)-1,4,5,6-tetrahydro-1-					
	otoxicity in vitro		erial reverse mutation assay (AMES)					
Prop	ylene glycol:							
-	otoxicity in vitro	: Test Type: Bact Result: negative	erial reverse mutation assay (AMES)					
			omosome aberration test in vitro Test Guideline 473					
Geno	otoxicity in vivo	cytogenetic ass Species: Mouse	te: Intraperitoneal injection					





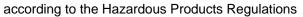
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lverm	ectin:		
Genot	oxicity in vitro	: Test Type: Bac Result: negativ	cterial reverse mutation assay (AMES) /e
		thesis in mamr	A damage and repair, unscheduled DNA syr nalian cells (in vitro) uman diploid fibroblasts /e
		Test Type: Mo Result: negativ	use Lymphoma /e
	nogenicity	- Martina da Caraca da	
Not cla	assified based on av	ailable information.	
<u>Comp</u>	onents:		
Propy	lene glycol:		
Specie	es	: Rat	
	ation Route	: Ingestion	
	sure time	: 2 Years	
Result	t	: negative	
lverm	ectin:		
Specie	es	: Rat	
	ation Route	: Oral	
NOAE		: 1.5 mg/kg body	y weight
Result Rema		: negative : Based on data	from similar materials
Nema	113	. Dased on data	nom similar materials
	26	: Mouse	
Specie	55		
Applic	ation Route	: Oral	
	ation Route	: Oral : 2.0 mg/kg body : negative	y weight

# 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):

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





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			•	oxicity: NOAEL: 1,000 mg/kg body weight on fertility and early embryonic
Pror	oylene glycol:			
-	cts on fertility	:	Test Type: Two-g Species: Mouse Application Route Result: negative	eneration reproduction toxicity study
Effec	Effects on fetal development		Test Type: Embryo-fetal development Species: Mouse Application Route: Ingestion Result: negative	
lver	nectin:			
Effec	cts on fertility	:		
Effec	Effects on fetal development		Result: Teratoger	
			Result: Embryoto offspring were de	e: Oral oxicity: LOAEL: 0.4 mg/kg body weight xic effects and adverse effects on the

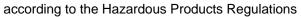
### STOT-single exposure

Not classified based on available information.



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ersion 2	Revision Date: 09/28/2024	SDS Number 52637-00031			
<u>Com</u>	ponents:				
lverm	nectin:				
Targe	et Organs	: Central n	ervous system		
	ssment		lamage to organs.		
	<b>F-repeated exposure</b>				
Not c	lassified based on ava	ailable information	n.		
<u>Com</u>	ponents:				
	nectin:				
	et Organs ssment		ervous system lamage to organs through prolonged or repeated		
Dana	ated dage to visit.				
•	ated dose toxicity				
Com	ponents:				
	/lethylenebis[3-hydro yl-2-[2-(2-thienyl)vin		] acid, compound with (E)-1,4,5,6-tetrahydro-1 :1):		
Spec		: Dog			
NOAI		: 10 mg/kg			
LOAE		: 30 mg/kg			
	cation Route	: Ingestion			
Rema	sure time arks	: 3 d : No signifi	cant adverse effects were reported		
Spec	ies	: Dog			
NOAI		: 600 mg/k	g		
Appli	cation Route	: Oral			
	sure time	: 19 d			
Rema	arks	: No signifi	cant adverse effects were reported		
Spec		: Dog			
NOAI		: 600 mg/k	g		
	cation Route	: Oral : 30 d			
Rema	sure time arks		cant adverse effects were reported		
Spec	ies	: Dog			
NOAI		: 600 mg/k	g		
Appli	cation Route	: Oral			
	sure time	: 90 d			
Rema	arks	: No signifi	cant adverse effects were reported		
Prop	ylene glycol:				
Spec		: Rat, male			
NOAI		: >= 1,700			
	cation Route	: Ingestion			
Expo	sure time	: 2 y			





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lverm	ectin:				
Speci		: Dog			
NOAE		: 0.5 mg/kg			
LOAE		: 1 mg/kg			
	cation Route	: Oral			
	sure time	: 14 Weeks	ue evetere		
Symp	et Organs	: Central nervor	ne pupil, Tremors, Lack of coordination, anorex		
Symp	00115	. Dilatation of ti	le pupil, Tremois, Lack of coordination, anorex		
Speci	es	: Monkey			
NOAE		: 1.2 mg/kg			
Applic	cation Route	: Oral			
	sure time	: 2 Weeks			
Rema	arks	: No significant	adverse effects were reported		
Speci	es	: Rat			
NOAE	EL	: 0.4 mg/kg			
LOAE		: 0.8 mg/kg			
	cation Route	: Oral			
	sure time	: 3 Months			
Targe	et Organs	: spleen, Bone marrow, Kidney			
Aspir	ation toxicity				
Not cl	assified based on available	ailable information.			
Expe	rience with human e	exposure			
<u>Comp</u>	oonents:				
4,4'-N			d, compound with (E)-1,4,5,6-tetrahydro-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:		
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	:	EC50 (Daphnia magna (Water flea)): 0.000025 mg/l



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aquat	ic invertebrates ity to algae/aquatic	52637-00031 Date of first issue: 02/02/2015 Exposure time: 48 h : EC50 (Pseudokirchneriella subcapitata (green algae)): > mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella subcapitata (green algae)):				
		mg/l Exposure time: Method: OECD	72 h Test Guideline 201			

### 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):

Ecotoxicology Assessment Acute aquatic toxicity	:	Toxic effects cannot be excluded
Chronic aquatic toxicity	:	
<b>Propylene glycol:</b> 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
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
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 9.1 mg/l Exposure time: 72 h



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			Method: OEC	D Test Guideline 201
			mg/l Exposure time	okirchneriella subcapitata (green algae)): 9.1 : 72 h ) Test Guideline 201
Persi	istence and degrada	bility		
Prod	uct:			
Biode	egradability	:	Result: Not rea Biodegradatior Exposure time	
Com	ponents:			
Prop	ylene glycol:			
Biode	egradability	:	Biodegradation Exposure time	: 28 d
			Method: OECE	D Test Guideline 301F
lvern	nectin:			
Biode	egradability	:	Result: Not rea Biodegradatior Exposure time	
Bioa	ccumulative potentia	al		
Prod	uct:			
Bioac	cumulation	:	Bioconcentration	on factor (BCF): 74
Com	ponents:			
Prop	ylene glycol:			
	ion coefficient: n- ol/water	:	log Pow: -1.07 Method: Regul	ation (EC) No. 440/2008, Annex, A.8
lvern	nectin:			
Bioac	cumulation	:	Bioconcentration	on factor (BCF): 74
	ion coefficient: n- iol/water	:	log Pow: 3.22	
	<b>lity in soil</b> ata available			
	<b>r adverse effects</b> ata available			



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### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer.
		Dispose of in accordance with local regulations.
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

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ivermectin)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (Ivermectin)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ivermectin)
Class	:	9
Packing group		
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
·		-

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **Domestic regulation**

### TDG

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,



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Label ERG	ng group s	N.O.S. (Ivermectin) : 9 : III : 9 : 171 : yes(Ivermectin	)

#### 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**

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

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

### **SECTION 16. OTHER INFORMATION**

#### Full text of other abbreviations

CA ON OEL	:	Ontario Table of Occupational Exposure Limits made under
		the Occupational Health and Safety Act.
CA ON OEL / TWA	:	Time-Weighted Average Limit (TWA)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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, Bioaccumu-



### Ivermectin / Pyrantel Formulation

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lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Revision Date Date format	:	09/28/2024 mm/dd/yyyy

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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