Revision Date:

Version



Date of last issue: 2023/09/30

Pyrantel Pamoate / Ivermectin Formulation

SDS Number:

Vers 6.2	sion	Revision Date: 2024/09/28		S Number: 2882-00018	Date of last issue: 2023/09/30 Date of first issue: 2019/09/17						
1. P	1. PRODUCT AND COMPANY IDENTIFICATION										
	Produc	t name	:	Pyrantel Pamoate / Ivermectin Formulation							
	Manufacturer or supplier's details										
	Compa	ny	:	MSD							
	Addres	S	:	126 E. Lincoln Av Rahway, New Je	venue rsey U.S.A. 07065						
	Teleph	one	:	908-740-4000							
	Emerge	ency telephone number	· :	1-908-423-6000							
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com						
	Recom	mended use of the ch	nemi	ical and restriction	ons on use						
Recommended use : Veterinary product Restrictions on use : Not applicable				ct							
	Resilic		•	Not applicable							
2. H	AZARD	S IDENTIFICATION									
	GHS C	lassification									
		c target organ toxicity - exposure (Oral)	:	Category 2 (Cen	tral nervous system)						
	-	c target organ toxicity - ed exposure (Oral)	:	Category 2 (Cen	tral nervous system)						
	Short-te hazard	erm (acute) aquatic	:	Category 1							
	Long-te hazard	erm (chronic) aquatic	:	Category 1							
	GHS la	bel elements									
	Hazard	pictograms	:								
					¥2						
	Signal	word	:	Warning	V						

Hazard statements

 H371 May cause damage to organs (Central nervous system) if swallowed.
H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure if swallowed.



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Preca	utionary statements	Prevention: P260 Do not br P264 Wash ski P270 Do not ea	c to aquatic life with long lasting effects. eathe dust/ fume/ gas/ mist/ vapours/ spray. n thoroughly after handling. at, drink or smoke when using this product. ease to the environment.
		Response: P308 + P311 IF CENTER/ docto P391 Collect sp	
		Storage: P405 Store locl	ked up.
		Disposal: P501 Dispose o disposal plant.	of contents/ container to an approved waste
Addit	ional Labelling		
	bllowing percentage of the convironment: 38.3 %	he mixture consists of	f ingredient(s) with unknown hazards to the
	1 1 1 1	(

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

CAS-No.	Concentration (% w/w)
	>= 30 -< 60
70288-86-7	>= 1 -< 2.5
64-17-5	< 10
	22204-24-6 70288-86-7

Voluntarily-disclosed substance

4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution.



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	and effe delayed Protect	nportant symptoms ects, both acute and	::	If swallowed, DO so by medical per Get medical atten Rinse mouth thom Never give anythi May cause dama May cause dama exposure if swalld First Aid responde and use the recor when the potentia	ition. oughly with water. ng by mouth to an unconscious person. ge to organs if swallowed. ge to organs through prolonged or repeated		
5. FIREFIGHTING MEASURES							
:	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical			
	Unsuita media	able extinguishing	:	None known.			
	Specific hazards during fire- fighting Hazardous combustion prod- ucts Specific extinguishing meth- ods		:	Exposure to com	oustion products may be a hazard to health.		
			•	Carbon oxides Nitrogen oxides (I Sulphur oxides	NOx)		
			:	cumstances and t Use water spray t	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do		
	Special for firef	l protective equipment ighters	:		e, wear self-contained breathing apparatus. tective equipment.		
6. AC	6. ACCIDENTAL RELEASE MEASURES						

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.



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	ods and materials for inment and cleaning up	For large spills, ment to keep m be pumped, sto Clean up remai bent. Local or nationa posal of this ma employed in the mine which reg Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- laterial from spreading. If dyked material can ore recovered material in appropriate containen ning materials from spill with suitable absor- al regulations may apply to releases and dis- laterial, as well as those materials and items a cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.
HANDL	ING AND STORAGE		
Techr	ical measures		g measures under EXPOSURE ERSONAL PROTECTION section.
Local/	Total ventilation		dequate ventilation.
Advice	e on safe handling		dust, fume, gas, mist, vapours or spray.
			d or repeated contact with skin.
		Wash skin thoru Handle in accor practice, based sessment Do not eat, drin	bughly after handling. rdance with good industrial hygiene and safety on the results of the workplace exposure as- k or smoke when using this product. event spills, waste and minimize release to th
		onvironment	
Condi	tions for safe storage	Store locked up	y labelled containers. ance with the particular national regulations.

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
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)	22204-24-6	TWA	250 μg/m3 (OEB 2)	Internal
Ivermectin	70288-86-7	TWA	30 µg/m3 (OEB 3)	Internal
	Further informa			



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		Wipe limit	300 µg/100 cm2	Internal
Ethanol	64-17-5	PSD	1,000 ppm	ID OEL
	Further info		ed animal carcinogen.	
		STEL	1,000 ppm	ACGIH
Engineering measures	design and protect pro Containme are require the compo- tainment de Minimize o	l operated in acco ducts, workers, a nt technologies s d to control at so und to uncontrolle	uld be implemented b ordance with GMP prin and the environment. suitable for controlling urce and to prevent m ed areas (e.g., open-fa	compounds
Personal protective equipme	ent			
Respiratory protection Filter type	sure asses ommended	sment demonstra I guidelines, use	entilation is not availab ates exposures outside respiratory protection. organic vapour type	e the rec-
Hand protection	. Combined	particulates and	organic vapour type	
Material	: Chemical-r	esistant gloves		
Remarks Eye protection	: Wear safet If the work mists or ae Wear a fac	environment or a rosols, wear the eshield or other f	de shields or goggles. activity involves dusty appropriate goggles. full face protection if th o the face with dusts, r	conditions, nere is a
Skin and body protection	: Work unifo Additional I task being posable su Use approp	performed (e.g., its) to avoid expo	coat. hould be used based t sleevelets, apron, gau bsed skin surfaces. techniques to remove	intlets, dis-
Hygiene measures	: If exposure eye flushin ing place. When usin Wash cont The effectiv engineering appropriate industrial h	e to chemical is lik g systems and sa g do not eat, drin aminated clothing ve operation of a g controls, propere e degowning and	g before re-use. facility should include r personal protective e decontamination proc g, medical surveillance	review of equipment, edures,

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	paste
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Colour



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С	Ddour		:	No data available)
С	Odour T	Threshold	:	No data available)
р	Н		:	No data available)
Ν	lelting	point/freezing point	:	No data available)
	nitial bo ange	piling point and boiling	:	No data available	
F	lash p	oint	:	Not applicable	
E	vapora	ation rate	:	Not applicable	
F	lamma	ability (solid, gas)	:	No data available)
F	lamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
V	/apour	pressure	:	Not applicable	
R	Relative	e vapour density	:	Not applicable	
R	Relative	e density	:	No data available)
D	Density		:	No data available	
S	Solubilit Wate	ty(ies) er solubility	:	No data available)
	Partitior	n coefficient: n-	:	Not applicable	
-		nition temperature	:	No data available	
D	Decomp	position temperature	:	No data available	9
V	/iscosit Visco	y osity, kinematic	:	Not applicable	
E	xplosiv	ve properties	:	Not explosive	
C	Dxidizin	ng properties	:	The substance of	mixture is not classified as oxidizing.
Ν	lolecul	ar weight	:	No data available)



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	le characteristics le size	:	Not applicable	
0. STABI	LITY AND REACTIVITY	,		
Possil tions Condi Incom	ical stability bility of hazardous reac- tions to avoid patible materials dous decomposition	:	Stable under nor Can react with so None known. Oxidizing agents	trong oxidizing agents.
1. TOXIC	OLOGICAL INFORMAT	101	1	
Inform expos	nation on likely routes of ure	:	Skin contact Ingestion Eye contact	
	e toxicity assified based on availa	ble	information.	
<u>Produ</u> Acute	<u>ict:</u> oral toxicity	:	Acute toxicity esti Method: Calculati	imate: > 2,000 mg/kg ion method
Acute	dermal toxicity	:	Acute toxicity esti Method: Calculati	imate: > 2,000 mg/kg ion method
<u>Comp</u>	oonents:			
methy	nethylenebis[3-hydroxy yl-2-[2-(2-thienyl)vinyl] oral toxicity			compound with (E)-1,4,5,6-tetrahydro-1- 000 mg/kg
			LD50 (Mouse): >	24,000 mg/kg
			LD50 (Dog): 2,00	0 mg/kg
lverm	ectin:			
Acute	oral toxicity	:	LD50 (Rat): 50 m	g/kg
			LD50 (Mouse): 28	5 mg/kg
			Symptoms: Vomi	> 24 mg/kg entral nervous system ting, Dilatation of the pupil rtality observed at this dose.



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Acute	e inhalation toxicity	:	LC50 (Rat): 5.11 Exposure time: 1 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rabbit): 40	16 mg/kg
			LD50 (Rat): > 660) mg/kg
Etha	nol:			
Acute	e oral toxicity	:	LD50 (Rat): 10,47 Method: OECD T	
Acute	e inhalation toxicity	:	LC50 (Rat, male) Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rabbit): >	15,800 mg/kg
Not c <u>Com</u>	corrosion/irritation classified based on avai ponents: nectin:	lable	information.	
Spec Resu	ies	:	Rabbit No skin irritation	
Etha Spec Meth Resu	ies od	:	Rabbit OECD Test Guide No skin irritation	eline 404
	ous eye damage/eye ir lassified based on avai			
<u>Com</u>	ponents:			
lvern	nectin:			
Spec Resu		:	Rabbit Mild eye irritation	
Etha Spec Resu Meth	ies Ilt	:	Rabbit Irritation to eyes, OECD Test Guide	reversing within 21 days eline 405



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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Ivermectin:

Exposure routes	:	Dermal
Species	:	Humans
Result	:	Does not cause skin sensitisation.

Ethanol:

:	Mouse ear swelling test (MEST)
:	Skin contact
:	Mouse
:	negative
	:

Germ cell mutagenicity

Not classified based on available information.

Components:

4,4'-methylenebis[3-hydroxy-2- methyl-2-[2-(2-thienyl)vinyl]pyr	-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1- imidine (1:1):
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Ivermectin:	
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: DNA damage and repair, unscheduled DNA syn- thesis in mammalian cells (in vitro) Test system: human diploid fibroblasts Result: negative

Test Type: Mouse Lymphoma Result: negative

Ethanol:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES)
		Method: OECD Test Guideline 471
		Result: negative

Test Type: In vitro mammalian cell gene mutation test



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		Method: O Result: ne	ECD Test Guideline 476 gative
		Test Type: Result: ne	Chromosome aberration test in vitro gative
Geno	toxicity in vivo	cytogeneti Species: F	at Route: Ingestion
	i nogenicity lassified based on ava	lable information	
Com	ponents:		
lverm	nectin:		
Speci Applio NOAI Resu Rema	cation Route EL It	: negative	body weight data from similar materials
Spec		: Mouse	
Appli NOAI	cation Route EL	: Oral : 2.0 mg/kg	body weight
Resu Rema		: negative	data from similar materials
Renr	oductive toxicity		
-	lassified based on ava	lable information	
Com	ponents:		
	nethylenebis[3-hydro yl-2-[2-(2-thienyl)viny		acid, compound with (E)-1,4,5,6-tetrahydro-1-
	ts on foetal develop-	: Test Type: Species: F Application Developm	Embryo-foetal development at Route: Oral ental Toxicity: NOAEL: 3,000 mg/kg body weight effects on fertility and early embryonic develop-
		Species: F Applicatior Developm	n Route: Oral ental Toxicity: NOAEL: 1,000 mg/kg body weight effects on fertility and early embryonic develop-



sion	Revision Date: 2024/09/28	SDS Number: 4892882-00018	Date of last issue: 2023/09/30 Date of first issue: 2019/09/17		
lverm	nectin:				
Effect	s on fertility		at		
Effects on foetal develop- ment		: Test Type: Development Species: Mouse Application Route: Oral Developmental Toxicity: NOAEL: 0.2 mg/kg body weight Result: Teratogenic effects, Embryotoxic effects and adverse effects on the offspring were detected only at high maternally toxic doses			
		Species: Ra Application Developme Result: Eml spring were	Route: Oral ntal Toxicity: LOAEL: 0.4 mg/kg body weight oryotoxic effects and adverse effects on the off- detected. he mechanism or mode of action may not be re		
		Species: Ra Application Result: Tera			
Ethar	nol:				
Effect	s on fertility	Species: M	Route: Ingestion		
	- single exposure cause damage to organ	ns (Central nervou	s system) if swallowed.		
	oonents:	(-	, ,		
lverm	nectin:				
Targe	et Organs ssment		/ous system nage to organs.		

STOT - repeated exposure

May cause damage to organs (Central nervous system) through prolonged or repeated exposure if swallowed.



ersion .2	Revision Date: 2024/09/28	SDS Number: 4892882-00018	Date of last issue: 2023/09/30 Date of first issue: 2019/09/17
<u>Com</u> r	oonents:		
	nectin:		
-		· Control portion	a system
-	et Organs ssment	: Central nervou : Causes damag exposure.	e to organs through prolonged or repeated
Repe	ated dose toxicity		
Com	oonents:		
	nethylenebis[3-hydr yl-2-[2-(2-thienyl)vin		l, compound with (E)-1,4,5,6-tetrahydro-1-
Speci		: Dog	
NOAE		: 10 mg/kg	
LOAE		: 30 mg/kg	
	cation Route sure time	: Ingestion : 3 d	
Rema			dverse effects were reported
Kenne		. No significant e	idverse ellects were reported
Speci		: Dog	
NOAE		: 600 mg/kg	
	cation Route	: Oral	
Expos	sure time	: 19 d	duaraa offacta wara rapartad
Reine	117.5	. NO SIGNINCANT &	dverse effects were reported
Speci		: Dog	
NOAE		: 600 mg/kg	
	cation Route	: Oral	
Expos	sure time	: 30 d	dverse effects were reported
Rema	arks	. No significant a	laverse effects were reported
Speci		: Dog	
NOAE		: 600 mg/kg	
	cation Route sure time	: Oral : 90 d	
Rema			dverse effects were reported
lverm	nectin:		
Speci		: Dog	
NOAE		: 0.5 mg/kg	
LOAE	EL	: 1 mg/kg	
	cation Route	: Oral	
	sure time	: 14 Weeks	
	et Organs	: Central nervou	
Symp			e pupil, Tremors, Lack of coordination, anore
Speci		: Monkey	
NOAE		: 1.2 mg/kg	
	cation Route	: Oral	
Expos	sure time	: 2 Weeks	



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Rema	arko		duorse offects were reported
Rema	11K5	. NO SIGNILICANT A	dverse effects were reported
Speci		: Rat	
NOAE LOAE		: 0.4 mg/kg	
	cation Route	: 0.8 mg/kg : Oral	
	sure time	: 3 Months	
•	et Organs	: spleen, Bone m	harrow, Kidney
Ethar	nol:		
Speci		: Rat	
NOAE		: 1,730 mg/kg	
LOAE	L Cation Route	: 3,200 mg/kg : Ingestion	
	sure time	: 90 Days	
Aspir	ration toxicity		
Not c	lassified based on available		
Not cl Expe	-		
Not cl Expe <u>Com</u> 4,4'-n	lassified based on ava rience with human e ponents:	exposure oxy-2-naphthoic] acid	, compound with (E)-1,4,5,6-tetrahydro-1-
Not cl Expe <u>Com</u> 4,4'-n	lassified based on ava rience with human e ponents: nethylenebis[3-hydr yl-2-[2-(2-thienyl)vin	exposure oxy-2-naphthoic] acid yl]pyrimidine (1:1):	dominal pain, Nausea, Vomiting, Diarrhoea,
Not cl Expe <u>Comp</u> 4,4'-n meth Inges	lassified based on ava rience with human e ponents: nethylenebis[3-hydr yl-2-[2-(2-thienyl)vin	exposure oxy-2-naphthoic] acid yl]pyrimidine (1:1): : Symptoms: Abo	dominal pain, Nausea, Vomiting, Diarrhoea,
Not cl Expe <u>Comp</u> 4,4'-n meth Inges	lassified based on ava rience with human e ponents: nethylenebis[3-hydr yl-2-[2-(2-thienyl)vin tion	exposure oxy-2-naphthoic] acid yl]pyrimidine (1:1): : Symptoms: Abo Headache, Diz:	dominal pain, Nausea, Vomiting, Diarrhoea,
Not cl Expe <u>Comp</u> 4,4'-n meth Inges Iverm Skin c Eye c	lassified based on ava rience with human e ponents: nethylenebis[3-hydr yl-2-[2-(2-thienyl)vin tion nectin: contact	exposure oxy-2-naphthoic] acid yl]pyrimidine (1:1): : Symptoms: Abo Headache, Diz: : Remarks: Can : Remarks: May	dominal pain, Nausea, Vomiting, Diarrhoea, ziness, Fever be absorbed through skin. irritate eyes.
Not cl Expe <u>Comp</u> 4,4'-n meth Inges Iverm Skin d	lassified based on ava rience with human e ponents: nethylenebis[3-hydr yl-2-[2-(2-thienyl)vin tion nectin: contact	exposure oxy-2-naphthoic] acid yl]pyrimidine (1:1): : Symptoms: Abo Headache, Diz: : Remarks: Can : Remarks: May : Symptoms: Dro	dominal pain, Nausea, Vomiting, Diarrhoea, ziness, Fever be absorbed through skin. irritate eyes.
Not cl Expe <u>Comp</u> 4,4'-n Inges Iverm Skin c Eye c Inges	lassified based on ava rience with human e ponents: nethylenebis[3-hydr yl-2-[2-(2-thienyl)vin tion nectin: contact	exposure oxy-2-naphthoic] acid yl]pyrimidine (1:1): : Symptoms: Abo Headache, Dizz : Remarks: Can : Remarks: May : Symptoms: Dro iting, anorexia,	dominal pain, Nausea, Vomiting, Diarrhoea, ziness, Fever be absorbed through skin. irritate eyes. wwsiness, Dilatation of the pupil, Tremors, Vor
Not cl Expe <u>Comp</u> 4,4'-n meth Inges Iverm Skin c Eye c Inges 2. ECOL	lassified based on ava rience with human e ponents: nethylenebis[3-hydr yl-2-[2-(2-thienyl)vin tion nectin: contact contact tion	exposure oxy-2-naphthoic] acid yl]pyrimidine (1:1): : Symptoms: Abo Headache, Dizz : Remarks: Can : Remarks: May : Symptoms: Dro iting, anorexia,	dominal pain, Nausea, Vomiting, Diarrhoea, ziness, Fever be absorbed through skin. irritate eyes. wwsiness, Dilatation of the pupil, Tremors, Vor

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	:	Toxic effects cannot be excluded
Ivermectin: Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.003 mg/l



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			Exposure time: 96	6 h
				acrochirus (Bluegill sunfish)): 0.0048 mg/l
			Exposure time: 96	3 h
	to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.000025 mg/l 3 h
Toxicity to algae/aquatic plants		:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD To	
			NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD To	
	r (Acute aquatic tox-	:	10,000	
icity) M-Factor (Chronic aquatic toxicity)		:	10,000	
Ethanol	:			
Toxicity	to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 14,200 mg/ b h
	to daphnia and other invertebrates	:	EC50 (Ceriodaph Exposure time: 48	nia dubia (water flea)): 5,012 mg/l 3 h
Toxicity plants	to algae/aquatic	:	ErC50 (Chlorella Exposure time: 72	vulgaris (Fresh water algae)): 275 mg/l ? h
			EC10 (Chlorella v Exposure time: 72	ulgaris (Fresh water algae)): 11.5 mg/l ? h
Toxicity icity)	to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 10	tipes (Japanese medaka)): >= 79 mg/l 00 d
aquatic i	to daphnia and other invertebrates (Chron-	:	NOEC (Daphnia r Exposure time: 9	nagna (Water flea)): 9.6 mg/l d
ic toxicity) Toxicity to microorganisms		:	EC50 (Protozoa): 5,800 mg/l Exposure time: 4 h	
Persiste	ence and degradabili	ty		
Compo	nents:			
lvermed	tin:			
Biodegra	adability	:	Result: Not readily Biodegradation: \$	



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		Exposure	time: 240 d			
Ethar	nol:					
Biode	Biodegradability		Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d			
Bioad	cumulative potential					
Com	oonents:					
lverm	ectin:					
Bioac	cumulation	: Bioconce	ntration factor (BCF): 74			
	on coefficient: n- ol/water	: log Pow:	3.22			
Ethar	nol:					
	on coefficient: n- ol/water	: log Pow:	0.35			
Mobi	ity in soil					
No da	ita available					
Other	adverse effects					
No da	ta available					
3. DISPO	SAL CONSIDERATIO	NS				
Dispo	osal methods					
Waste	e from residues		spose of waste into sewer.			
Conta	minated packaging	: Empty co dling site	f in accordance with local regulations. ntainers should be taken to an approved waste han for recycling or disposal. rwise specified: Dispose of as unused product.			
4. TRAN	SPORT INFORMATION	l				
Interr	national Regulations					
UNR	ſDG					
	umber	: UN 3077				
Prope	er shipping name	: ENVIRON N.O.S. (Ivermec	IMENTALLY HAZARDOUS SUBSTANCE, SOLID,			
Class		: 9				
	ng group	: III : 9				
	e					
Label	s onmentally hazardous	: yes				
Label	onmentally hazardous	-				



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Proper shipping name Class		:	Environmentally h (Ivermectin) 9	azardous substance, solid, n.o.s.
	ng group	:	9	
Labels		÷	Miscellaneous	
Packing instruction (cargo aircraft)		:	956	
Packing instruction (passen- ger aircraft)		:	956	
Enviro	Environmentally hazardous		yes	
IMDG UN nu	-Code Imber	:	UN 3077	
Proper shipping name		:	ENVIRONMENTA N.O.S. (Ivermectin)	ALLY HAZARDOUS SUBSTANCE, SOLID,
Class		:	9	
	Packing group Labels EmS Code			
			9 E A S E	
	e pollutant	:	F-A, S-F ves	
mann		•	,	

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

Not applicable for product as supplied.

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.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Minister of Industry Regulation No. 23/M-IND/PER/4/2013 concerning the Revision of Minister of Industry Regulation No. 87/M-IND/PER/9/2009 concerning Globally Harmonized System of Classification and Labelling of Chemicals.

Regulation of the Minister of Health No. 472 of 1996 on the Safeguarding of Substances Hazardous to Health

Hazardous substances that must be registered

tered : Not applicable

Government Regulation No. 74 of 2001 on the Management of Hazardous and Toxic Substances

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Regulation of the Ministry of Trade No. 7 of 2022 on Distribution and Control of Hazardous Materials

Type of hazardous materials subject to distribution and : Not applicable control, Annex I

Type of hazardous materials subject to distribution and : Not applicable control, Annex II

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

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

16. OTHER INFORMATION

Revision Date	:	2024/09/28			
Further information					
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/			
Date format	:	yyyy/mm/dd			
Full text of other abbreviations					
ACGIH ID OEL	:	USA. ACGIH Threshold Limit Values (TLV) Indonesia. Occupational Exposure Limits			
ACGIH / STEL ID OEL / PSD	:	Short-term exposure limit Short term exposure limit			

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;



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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, Bioaccumulative 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

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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