

Version 6.3	Revision Date: 28.09.2024		S Number: 92871-00017	Date of last issue: 30.09.2023 Date of first issue: 17.09.2019	
SECTION	1. IDENTIFICATION				
Produ	Product name		Pyrantel Pamoa	te / Ivermectin Formulation	
Manu	afacturer or supplier's	s deta	ils		
Comp	Company		MSD		
Addre	Address		Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP		
Telep	phone	:	908-740-4000		
Emer	gency telephone	:	1-908-423-6000		
E-ma	E-mail address		EHSDATASTEWARD@msd.com		
Reco	mmended use of the	chem	ical and restricti	ons on use	
Recommended use Restrictions on use		:	Veterinary produ Not applicable	ıct	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 5
Specific target organ toxicity - single exposure (Oral)	:	Category 2 (Central nervous system)
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Central nervous system)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H303 May be harmful if swallowed. H371 May cause damage to organs (Central nervous system) if swallowed.



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		through prole	ause damage to organs (Central nervous system) onged or repeated exposure if swallowed. oxic to aquatic life with long lasting effects.
Preca	uutionary Statements	P264 Wash P270 Do not	breathe dust/ fume/ gas/ mist/ vapors/ spray. skin thoroughly after handling. eat, drink or smoke when using this product. elease to the environment.
		Response: P308 + P311 CENTER/ do P391 Collect	
		Storage: P405 Store I	ocked up.
		Disposal: P501 Dispos disposal plar	e of contents/ container to an approved waste

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 38,3%

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
$[\cdot, \cdot] = [\cdot] = [$	22204-24-6	>= 30 -< 50
compound with (E)-1,4,5,6-tetrahydro-1-methyl-		
2-[2-(2-thienyl)vinyl]pyrimidine (1:1)		
Glycerine	56-81-5	>= 10 -< 20
Ivermectin	70288-86-7	>= 1 -< 2,5
Ethanol#	64-17-5	>= 0,1 -< 1

Voluntarily-disclosed substance

SECTION 4. FIRST AID MEASURES

General advice	 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.
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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If swallowed		:	Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water.			
	Most important symptoms and effects, both acute and delayed		:	May be harmful if May cause dama May cause dama	ge to organs if swallowed. ge to organs through prolonged or repeated	
		tion of first-aiders to physician	:	and use the recor when the potentia	owed. ers should pay attention to self-protection, nmended personal protective equipment Il for exposure exists (see section 8). cally and supportively.	
SEC		5. FIRE-FIGHTING ME	ASI			
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical		
	Unsuitable extinguishing media		:	None known.		
	Specific hazards during fire fighting		:	Exposure to combustion products may be a hazard to hea		
	Hazardous combustion prod- ucts		:	Carbon oxides Nitrogen oxides (NOx) Sulfur oxides		
	Specifi ods	c extinguishing meth-	:	cumstances and to Use water spray to	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	
		l protective equipment fighters	:		e, wear self-contained breathing apparatus. tective equipment.	

SECTION 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 protective 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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	ds and materials for nment and cleaning up	For large spills, p containment to ke can be pumped, container. Clean up remain absorbent. Local or national disposal of this m employed in the determine which Sections 13 and	rt absorbent material. provide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling	 Use only with adequate ventilation. Do not breathe dust, fume, gas, mist, vapors or spray. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	 Keep in properly labeled containers. Store locked up.
Materials to avoid	 Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents Self-reactive substances and mixtures Organic peroxides Explosives Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients 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



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Glyce			56-81-5	CMP (Mist)	10 mg/m ³	AR OEL	
lverm	ectin		70288-86-7	TWA	30 µg/m3 (OEB 3)	Internal	
			Further informa		1	1	
				Wipe limit	300 µg/100 cm2	Internal	
Ethan	ol		64-17-5	CMP	1.000 ppm	AR OEL	
			Further informa		classifiable as a huma		
				STEL	1.000 ppm	ACGIH	
Engir	neering measures	:	design and op protect produc Containment t are required to	erated in acco ets, workers, ar echnologies su control at sou to uncontrolle evices).	Ild be implemented by rdance with GMP prine nd the environment. Litable for controlling c Irce and to prevent mine d areas (e.g., open-fac	ciples to compounds gration of	
Perso	onal protective equip	ment					
Respiratory protection : Filter type : Hand protection			If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Combined particulates and organic vapor type				
	aterial	:	Chemical-resi	stant gloves			
Re	emarks	:	Consider dout	ole alovina.			
Еуе р	rotection	:	 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 potential 				
Skin a	and body protection	:	 aerosols. 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. 				
Hygie	ne measures	:	If exposure to eye flushing s working place When using d Wash contam The effective of engineering of appropriate de industrial hygi	chemical is like ystems and sa o not eat, drink inated clothing operation of a f ontrols, proper	before re-use. acility should include a personal protective ec decontamination proce a, medical surveillance	review of quipment, edures,	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: paste

Color



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C	Ddor		:	No data available	
C	Odor Th	reshold	:	No data available	
р	Η		:	No data available	
N	Aelting p	point/freezing point	:	No data available	
	nitial bo ange	iling point and boiling	:	No data available	
F	lash po	bint	:	Not applicable	
E	Evapora	tion rate	:	Not applicable	
F	lamma	bility (solid, gas)	:	No data available	
F	lamma	bility (liquids)	:	Not applicable	
L fl	Jpper e: lammab	xplosion limit / Upper ility limit	:	No data available	
		xplosion limit / Lower sility limit	:	No data available	
V	/apor pi	ressure	:	Not applicable	
F	Relative	vapor density	:	Not applicable	
R	Relative	density	:	No data available	
C	Density		:	No data available	
S	Solubility Wate	y(ies) r solubility	:	No data available	
	Partition	coefficient: n-	:	Not applicable	
		tion temperature	:	No data available	
C	Decomp	osition temperature	:	No data available	
V	/iscosity Visco	/ osity, kinematic	:	Not applicable	
E	Explosiv	e properties	:	Not explosive	
C	Dxidizin	g properties	:	The substance or	mixture is not classified as oxidizing.
N	Aolecula	ar weight	:	No data available	
	Particle Particle	characteristics size	:	Not applicable	



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SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Skin contact Ingestion Eye contact
Acute toxicity		
May be harmful if swallowed.		
Product:		
Acute oral toxicity	:	Acute toxicity estimate: 3.334 mg/kg Method: Calculation method
Acute dermal toxicity	:	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method
Components:		
4,4'-Methylenebis[3-hydroxy methyl-2-[2-(2-thienyl)vinyl]		naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1- imidine (1:1):
Acute oral toxicity	:	LD50 (Rat): > 24.000 mg/kg
		LD50 (Mouse): > 24.000 mg/kg
		LD50 (Dog): 2.000 mg/kg
Glycerine:		
Acute oral toxicity	:	LD50 (Rat): > 5.000 mg/kg
Acute dermal toxicity	:	LD50 (Guinea pig): > 5.000 mg/kg
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.

SAFETY DATA SHEET



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Acute	inhalation toxicity	: LC50 (Rat): 5,11 mg/l Exposure time: 1 h Test atmosphere: dust/mist	
Acute	e dermal toxicity	: LD50 (Rabbit): 406 mg/kg	
		LD50 (Rat): > 660 mg/kg	
Ethar	nol:		
Acute	oral toxicity	: LD50 (Rat): 10.470 mg/kg Method: OECD Test Guideline 401	
Acute	inhalation toxicity	: LC50 (Rat, male): 116,9 mg/l Exposure time: 4 h Test atmosphere: vapor	
Acute	e dermal toxicity	: LD50 (Rabbit): > 15.800 mg/kg	
-	corrosion/irritation	able information.	
<u>Com</u>	oonents:		
Glyce			
Speci Resu		: Rabbit : No skin irritation	
lverm	nectin:		
Speci Resu		: Rabbit : No skin irritation	
Ethar	nol:		
Speci		: Rabbit	
Metho Resu		: OECD Test Guideline 404: No skin irritation	
Serio	us eye damage/eye	ritation	
Not c	assified based on ava	able information.	
<u>Com</u>	oonents:		
Glyce	erine:		
Speci Resu		: Rabbit : No eye irritation	
lverm	nectin:		
Speci		: Rabbit	
Resu	It	: Mild eye irritation	
Ethar	nol:		
Speci	65	: Rabbit	



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Res Met			yes, reversing within 21 days Guideline 405
Res	piratory or skin sensit	ization	
	n sensitization classified based on ava	ilable information.	
Res	piratory sensitization		
	classified based on ava	ilable information.	
Cor	nponents:		
	mectin:		
Rou	ites of exposure	: Dermal : Humans : Does not cau	use skin sensitization.
Eth	anol:		
Tes Rou	t Type ites of exposure cies	: Mouse ear s : Skin contact : Mouse : negative	welling test (MEST)
Not	m cell mutagenicity classified based on ava nponents:	ilable information.	
4,4'			cid, compound with (E)-1,4,5,6-tetrahydro-1-
	notoxicity in vitro		acterial reverse mutation assay (AMES)
Glv	cerine:		
•	notoxicity in vitro	: Test Type: Ir Result: nega	n vitro mammalian cell gene mutation test tive
		Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive
		Test Type: C Result: nega	hromosome aberration test in vitro tive
			NA damage and repair, unscheduled DNA syn- nmalian cells (in vitro) tive
lver	mectin:		
-	notoxicity in vitro	: Test Type: B Result: nega	acterial reverse mutation assay (AMES) tive



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		thesis in man Test system: Result: negat Test Type: M	louse Lymphoma
		Result: negat	live
Ethar	nol:		
Geno	toxicity in vitro		acterial reverse mutation assay (AMES) CD Test Guideline 471 tive
			vitro mammalian cell gene mutation test CD Test Guideline 476 tive
		Test Type: C Result: negat	hromosome aberration test in vitro tive
Geno	toxicity in vivo	cytogenetic a Species: Rat	
		Application R Result: negat	coute: Ingestion
Carci	nogenicity		coute: Ingestion
			coute: Ingestion
Not cl		Result: negat	coute: Ingestion
Not cl <u>Comp</u> Glyce	assified based on a ponents: prine:	Result: negat	coute: Ingestion
Not cl <u>Comp</u> Glyce Speci	assified based on a <u>conents:</u> erine: es	Result: negat vailable information. : Rat	coute: Ingestion
Not cl Comp Glyce Speci Applic	assified based on a <u>conents:</u> erine: es cation Route	Result: negat wailable information. : Rat : Ingestion	coute: Ingestion
Not cl Comp Glyce Speci Applic	assified based on a <u>conents:</u> erine: es cation Route sure time	Result: negat vailable information. : Rat	coute: Ingestion
Not cl Comp Glyce Speci Applic Expos Resul	assified based on a <u>conents:</u> erine: es cation Route sure time	Result: negat wailable information. : Rat : Ingestion : 2 Years	coute: Ingestion
Not cl Comp Glyce Speci Applic Expos Resul	assified based on a <u>conents:</u> erine: es cation Route sure time t t	Result: negat wailable information. : Rat : Ingestion : 2 Years	coute: Ingestion
Not cl Comp Glyce Speci Applic Expos Resul	assified based on a <u>conents:</u> es cation Route sure time t es cation Route	Result: negativailable information.	tive
Not cl Comp Glyce Speci Applic Expos Resul Iverm Speci Applic NOAE	assified based on a <u>conents:</u> erine: es cation Route sure time t ectin: es cation Route EL	Result: negativailable information.	tive
Not cl Comp Glyce Speci Applic Expos Resul Iverm Speci Applic NOAE Resul	assified based on a <u>conents:</u> erine: es cation Route sure time t es cation Route EL t	Result: negativailable information.	tive dy weight
Not cl Comp Glyce Speci Applic Expos Resul Iverm Speci Applic NOAE	assified based on a <u>conents:</u> erine: es cation Route sure time t es cation Route EL t	Result: negativailable information.	tive
Not cl Comp Glyce Speci Applic Expos Resul Iverm Speci Applic NOAE Resul	assified based on a <u>ponents:</u> es cation Route sure time t es cation Route EL t t mectin: es cation Route EL t mes	Result: negativailable information.	tive dy weight
Not cl Comp Glyce Speci Applic Expos Resul Iverm Speci Applic NOAE Resul Rema Speci Applic	assified based on a <u>ponents:</u> erine: es cation Route sure time t es cation Route EL t arks es cation Route	Result: negative available information. : Rat : Ingestion : 2 Years : negative : Rat : Oral : 1,5 mg/kg bo : negative : Based on dat : Mouse : Oral	tive dy weight ta from similar materials
Not cl Comp Glyce Speci Applic Expos Resul Iverm Speci Applic NOAE Resul Rema Speci Applic NOAE	assified based on a <u>ponents:</u> erine: es cation Route sure time t es cation Route EL t arks es cation Route EL	Result: negative available information. : Rat : Ingestion : 2 Years : negative : Rat : Oral : 1,5 mg/kg bo : negative : Based on dat : Mouse : Oral : 2,0 mg/kg bo	tive dy weight ta from similar materials
Not cl Comp Glyce Speci Applic Expos Resul Iverm Speci Applic NOAE Resul Rema Speci Applic	assified based on a <u>ponents:</u> erine: es cation Route sure time t es cation Route EL t arks es cation Route EL t t t t t t t t t t t t t	Result: negative available information. : Rat : Ingestion : 2 Years : negative : Rat : Oral : 1,5 mg/kg bo : negative : Based on dat : Mouse : Oral : 2,0 mg/kg bo : negative	tive dy weight ta from similar materials

Reproductive toxicity

Not classified based on available information.



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Com	ponents:			
	Methylenebis[3-hydroxy hyl-2-[2-(2-thienyl)vinyl]			compound with (E)-1,4,5,6-tetrahydro-1-
Effec	cts on fetal development	:	Species: Rat Application Route Developmental To Result: No effects ment were detect Test Type: Embry	oxicity: NOAEL: 3.000 mg/kg body weight on fertility and early embryonic develop-
				oxicity: NOAEL: 1.000 mg/kg body weight son fertility and early embryonic develop-
Glyc	erine:			
Effec	cts on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
Effec	cts on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development : Ingestion
lveri	mectin:			
Effec	cts on fertility	:	Test Type: Fertilit Species: Rat Application Route Fertility: NOAEL: Result: Animal test	-
Effec	cts on fetal development	:	Result: Teratoger	
			Result: Embryoto spring were detect	e: Oral oxicity: LOAEL: 0,4 mg/kg body weight xic effects and adverse effects on the off-
			Test Type: Develo	onment

Test Type: Development



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Ethan	nol:			
Effect	s on fertility		Test Type: Tw Species: Mous Application Ro Result: negativ	ute: Ingestion
sтот	-single exposure			
May c	ause damage to orga	ans (Cer	ntral nervous s	ystem) if swallowed.
<u>Comp</u>	oonents:			
	ectin:			
	t Organs	-	Central nervou	is system
	ssment		Causes dama	
стот	-repeated exposure	•		
	ause damage to orga		ntral nervous s	ystem) through prolonged or repeated exposu
if swa	llowed.			
	llowed. ponents:			,,
Comp				,,
Comp Iverm Targe	oonents:	:	Central nervou	
Comp Iverm Targe Asses	oonents: ectin: t Organs	:	Central nervou Causes damag	is system
Comp Iverm Targe Asses Repea	oonents: nectin: the Organs ssment	:	Central nervou Causes damag	is system
Comp Iverm Targe Asses Repea <u>Comp</u> 4,4'-N	oonents: hectin: ht Organs ssment ated dose toxicity conents:	: oxy-2-n	Central nervou Causes damaç exposure. aphthoic] acio	is system
Comp Iverm Targe Asses Repea Comp 4,4'-W methy Specie	oonents: hectin: ht Organs ssment ated dose toxicity oonents: hethylenebis[3-hydro yl-2-[2-(2-thienyl)vin es	: oxy-2-n yl]pyrin :	Central nervou Causes damag exposure. aphthoic] acid nidine (1:1): Dog	is system ge to organs through prolonged or repeated
Comp Iverm Targe Asses Repea Comp 4,4'-W methy Specia NOAE	ponents: hectin: ht Organs ssment ated dose toxicity ponents: hethylenebis[3-hydro yl-2-[2-(2-thienyl)vin es	: oxy-2-n yl]pyrir :	Central nervou Causes damag exposure. aphthoic] acio nidine (1:1): Dog 10 mg/kg	is system ge to organs through prolonged or repeated
Comp Iverm Targe Asses Repea Comp 4,4'-W methy Specie NOAE LOAE	ponents: mectin: at Organs ssment ated dose toxicity ponents: Methylenebis[3-hydro yl-2-[2-(2-thienyl)vin es EL	oxy-2-n yl]pyrir :	Central nervou Causes damag exposure. aphthoic] acio nidine (1:1): Dog 10 mg/kg 30 mg/kg	is system ge to organs through prolonged or repeated
Comp Iverm Targe Asses Repea Comp 4,4'-W methy Specie NOAE LOAE Applic	ponents: hectin: ht Organs ssment ated dose toxicity ponents: hethylenebis[3-hydro yl-2-[2-(2-thienyl)vin es	oxy-2-n yl]pyrir	Central nervou Causes damag exposure. aphthoic] acio nidine (1:1): Dog 10 mg/kg	is system ge to organs through prolonged or repeated
Comp Iverm Targe Asses Repea Comp 4,4'-W methy Specie NOAE LOAE Applic	oonents: hectin: ht Organs ssment ated dose toxicity oonents: hethylenebis[3-hydro yl-2-[2-(2-thienyl)vin es EL st cation Route sure time	oxy-2-n yl]pyrir	Central nervou Causes damag exposure. aphthoic] acid nidine (1:1): Dog 10 mg/kg 30 mg/kg Ingestion 3 d	is system ge to organs through prolonged or repeated
Comp Iverm Targe Asses Repea Comp 4,4'-N methy Specie NOAE LOAE Applic Expos Rema	ponents: hectin: ht Organs ssment ated dose toxicity ponents: hethylenebis[3-hydro yl-2-[2-(2-thienyl)vin es EL cation Route sure time trks es	oxy-2-n yl]pyrin : :	Central nervou Causes damag exposure. aphthoic] acid nidine (1:1): Dog 10 mg/kg 30 mg/kg Ingestion 3 d No significant a	is system ge to organs through prolonged or repeated d, compound with (E)-1,4,5,6-tetrahydro-1-
Comp Targe Asses Repea Comp 4,4'-W methy Specie NOAE LOAE Applic Expos Rema	ponents: hectin: ht Organs ssment ated dose toxicity ponents: hethylenebis[3-hydro yl-2-[2-(2-thienyl)vin es EL EL cation Route sure time trks es EL	oxy-2-n yl]pyrin	Central nervou Causes damag exposure. aphthoic] acid nidine (1:1): Dog 10 mg/kg 30 mg/kg Ingestion 3 d No significant a Dog 600 mg/kg	is system ge to organs through prolonged or repeated d, compound with (E)-1,4,5,6-tetrahydro-1-
Comp Targe Asses Repea Comp 4,4'-W methy Specia NOAE LOAE Applic Expos Rema	ponents: ectin: ated dose toxicity ated dose toxicity ponents: lethylenebis[3-hydro yl-2-[2-(2-thienyl)vin es EL cation Route sure time urks es EL cation Route	oxy-2-n yl]pyrin	Central nervou Causes damag exposure. aphthoic] acid nidine (1:1): Dog 10 mg/kg 30 mg/kg Ingestion 3 d No significant a Dog 600 mg/kg Oral	is system ge to organs through prolonged or repeated d, compound with (E)-1,4,5,6-tetrahydro-1-
Comp Targe Asses Repea Comp 4,4'-W methy Specia NOAE LOAE Applic Expos Rema	ponents: hectin: ated dose toxicity ated dose toxicity ponents: hethylenebis[3-hydro yl-2-[2-(2-thienyl)vin es EL cation Route sure time trks es EL cation Route sure time sure time	oxy-2-n yl]pyrin	Central nervou Causes damag exposure. aphthoic] acid nidine (1:1): Dog 10 mg/kg 30 mg/kg Ingestion 3 d No significant a 600 mg/kg Oral 19 d	is system ge to organs through prolonged or repeated d, compound with (E)-1,4,5,6-tetrahydro-1-
Comp Iverm Targe Asses Repea Comp 4,4'-W methy Specia NOAE LOAE Applic Expos Rema Specia NOAE	ponents: ectin: at Organs ssment ated dose toxicity ponents: Iethylenebis[3-hydro yl-2-[2-(2-thienyl)vin es EL cation Route sure time arks es EL cation Route sure time arks es EL cation Route sure time arks es	oxy-2-n yl]pyrin	Central nervou Causes damag exposure. aphthoic] acid nidine (1:1): Dog 10 mg/kg 30 mg/kg Ingestion 3 d No significant a 600 mg/kg Oral 19 d	adverse effects were reported



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	ation Route ure time rks	: Oral : 30 d : No significant a	dverse effects were reported
	L ation Route ure time	: Dog : 600 mg/kg : Oral : 90 d : No significant a	dverse effects were reported
	es L	: Rat : 0,167 mg/l : 0,622 mg/l : inhalation (dust : 13 Weeks	/mist/fume)
		: Rat : 8.000 - 10.000 : Ingestion : 2 y	mg/kg
		: Rabbit : 5.040 mg/kg : Skin contact : 45 Weeks	
lverme	ectin:		
Specie NOAE LOAE Applic Expos	es L L ation Route ure time t Organs	: Dog : 0,5 mg/kg : 1 mg/kg : Oral : 14 Weeks : Central nervous : Dilatation of the	s system pupil, Tremors, Lack of coordination, anorexia
	L ation Route ure time	: Monkey : 1,2 mg/kg : Oral : 2 Weeks : No significant a	dverse effects were reported
Expos	L	: Rat : 0,4 mg/kg : 0,8 mg/kg : Oral : 3 Months : spleen, Bone m	arrow, Kidney
Ethan Specie NOAE LOAE	es L	: Rat : 1.730 mg/kg : 3.200 mg/kg	



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Application Route Exposure time		:	Ingestion 90 Days	
-	ration toxicity lassified based on availa	ahla	information	
	rience with human exp			
-	ponents:			
4,4'-N				compound with (E)-1,4,5,6-tetrahydro-1-
Inges	tion	:	Symptoms: Abdo Headache, Dizzi	minal pain, Nausea, Vomiting, Diarrhea, ness, Fever
lverm	nectin:			
-	contact			absorbed through skin.
Eye c Inges	contact tion	:		itate eyes. siness, Dilatation of the pupil, Tremors, Vom- ack of coordination
	12. ECOLOGICAL INF	ORI	MATION	
<u>Com</u>	ponents:			
	/lethylenebis[3-hydrox yl-2-[2-(2-thienyl)vinyl			compound with (E)-1,4,5,6-tetrahydro-1-
Ecoto	oxicology Assessment	t		
Acute	e aquatic toxicity	:	Toxic effects can	not be excluded
Chror	nic aquatic toxicity	:	Toxic effects can	not be excluded
Glyce	erine:			
-	ity to fish	:	LC50 (Oncorhyne Exposure time: 9	chus mykiss (rainbow trout)): 54.000 mg/l 6 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia r Exposure time: 4	nagna (Water flea)): 1.955 mg/l 8 h

Toxicity to microorganisms	:	NOEC (Pseudomonas putida): > 10.000 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8
Ivermectin:		

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



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		/ to daphnia and other invertebrates	:	EC50 (Daphnia ma Exposure time: 48	agna (Water flea)): 0,000025 mg/l h
plants		EC50 (Pseudokirc mg/l Exposure time: 72 Method: OECD Te			
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
		or (Acute aquatic tox-	:	10.000	
	icity) M-Factor (Chronic aquatic toxicity)		:	10.000	
	Ethanc	ol:			
	Toxicity	<i>t</i> to fish	:	LC50 (Pimephales Exposure time: 96	promelas (fathead minnow)): 14.200 mg/l h
		<pre>/ to daphnia and other invertebrates</pre>	:	EC50 (Ceriodaphr Exposure time: 48	ia dubia (water flea)): 5.012 mg/l h
	Toxicity to algae/aquatic plants		:	ErC50 (Chlorella v Exposure time: 72	ulgaris (Fresh water algae)): 275 mg/l h
				EC10 (Chlorella vi Exposure time: 72	ılgaris (Fresh water algae)): 11,5 mg/l h
	Toxicity icity)	v to fish (Chronic tox-	:	NOEC (Oryzias lat Exposure time: 10	tipes (Japanese medaka)): >= 79 mg/l 0 d
	Toxicity to daphnia and other aquatic invertebrates (Chron-		:	NOEC (Daphnia m Exposure time: 9 c	nagna (Water flea)): 9,6 mg/l
	ic toxici Toxicity	ity) / to microorganisms	:	EC50 (Protozoa): Exposure time: 4 h	
Persistence a		tence and degradabili	ity		
	Compo	onents:			
	Glycerine:				
	Biodeg	radability	:	Result: Readily bid Biodegradation: 9 Exposure time: 30 Method: OECD Te	2 %
	lverme	ctin:			
		radability	:	Result: Not readily Biodegradation: 5 Exposure time: 24	0 %



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Ethai	nol:			
Biode	Biodegradability		Result: Readily Biodegradation Exposure time:	: 84 %
Bioa	ccumulative potentia	I		
Com	ponents:			
Partit	erine: ion coefficient: n- ol/water	:	log Pow: -1,75	
lverm	nectin:			
Bioaccumulation		:	Bioconcentratio	n factor (BCF): 74
	Partition coefficient: n- octanol/water		log Pow: 3,22	
Ethai	nol:			
	Partition coefficient: n- octanol/water		log Pow: -0,35	
Mobi	lity in soil			
No da	ata available			
Othe	r adverse effects			
No da	ata available			

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

:	UN 3077
:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Ivermectin)
:	9
:	III
:	9
:	yes
:	UN 3077
	:



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Proper shipping name		:	Environmentally r (Ivermectin)	nazardous substance, solid, n.o.s.
Class		:	9	
Packing	g group	:	III	
Labels		:	Miscellaneous	
Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft) Environmentally hazardous		:	956	
		:	956	
		:	yes	
IMDG-0	Code			
UN number Proper shipping name		:	UN 3077	
		:	ENVIRONMENTA N.O.S. (Ivermectin)	ALLY HAZARDOUS SUBSTANCE, SOLID,
Class		:	9	
Packing	a aroup	:	III	
Labels		:	9	
EmS C	ode	:	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.

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

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

Argentina. Carcinogenic Substances and Agents Registry.	:	Not applicable		
Control of precursors and essential chemicals for the preparation of drugs.	:	Ethanol		
The ingredients of this product are reported in the following inventories:				

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

SECTION 16. OTHER INFORMATION

Revision Date	:	28.09.2024
Date format	:	dd.mm.yyyy



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	Furthe	r information				
	Sources of key data used to compile the Material Safety Data Sheet		:	: Internal technical data, data from raw material SDSs, OECI eChem Portal search results and European Chemicals Age cy, http://echa.europa.eu/		
	Full text of other abbreviations					
	ACGIH AR OEL		: USA. ACGIH Threshold Limit Values (TLV): Argentina. Occupational Exposure Limits			
		/ STEL L / CMP	:	Short-term expos TLV (Threshold L		
	AllC - 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					

э: 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, 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.