

Version 3.6	Revision Date: 26.06.2024		8 Number: 2852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019		
	1: IDENTIFICATION uct name	:	Pyrantel Pame	oate / Moxidectin Formulation		
Manu	Ifacturer or supplier	s dotail	e			
Comp		:		alia Pty Limited (trading as MSD Animal Health		
Addre	Address :		91-105 Harpin Street Bendigo 3550, Victoria Austrailia			
Telep	Telephone :		1 800 033 461			
Emer	gency telephone num	ber :	Poisons Inforr	nation Centre: Phone 13 11 26		
E-ma	E-mail address :		EHSDATASTEWARD@msd.com			
Reco	mmended use of the	e chemi	cal and restrie	ctions on use		
	Recommended use : Restrictions on use :		Veterinary product Not applicable			
	2. HAZARDS IDENT					

GHS Classification Specific target organ toxicity - : repeated exposure		Category 2 (Central nervous system)			
GHS label elements					
Hazard pictograms	:				
Signal word	:	Warning			
Hazard statements	:	H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure.			
Precautionary statements	:	<b>Prevention:</b> P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. <b>Response:</b> P314 Get medical advice/ attention if you feel unwell.			
		<b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.			



Version	Revision Date:	SDS Number:	Date of last issue: 02.04.2024
3.6	26.06.2024	4892852-00012	Date of first issue: 17.09.2019

### 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)
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	>= 30 -< 60
Propylene glycol	57-55-6	>= 10 -< 30
Glycerine	56-81-5	>= 10 -< 30
Moxidectin	113507-06-5	>= 1 -< 3
Ethanol#	64-17-5	< 10

# Voluntarily-disclosed substance

### **SECTION 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.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	
Most important symptoms and effects, both acute and delayed	:	May cause damage to organs through prolonged or repeated exposure.
Protection of first-aiders	÷	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray
0 0		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical



/ersion 8.6	Revision Date: 26.06.2024		92852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019			
Unsuit media	table extinguishing	:	None known.				
Specif fightin	ic hazards during fire- g	:	Exposure to com	bustion products may be a hazard to health.			
	dous combustion prod-	:	Carbon oxides Nitrogen oxides ( Sulphur oxides	NOx)			
Specif ods	ic extinguishing meth-	:	cumstances and Use water spray	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			
for fire	Special protective equipment for firefighters Hazchem Code						
SECTION	6. ACCIDENTAL RELE	ASI	E MEASURES				
tive ec	nal precautions, protec- quipment and emer- procedures	:	Follow safe hand	tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).			
Enviro	onmental precautions	:	Retain and dispo	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages			
	Methods and materials for containment and cleaning up		For large spills, p ment to keep may be pumped, store Clean up remaini bent. Local or national posal of this mate employed in the o mine which regul Sections 13 and	t absorbent material. rovide dyking or other appropriate contain- terial from spreading. If dyked material can a recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations 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	<ul> <li>Use only with adequate ventilation.</li> <li>Do not breathe dust, fume, gas, mist, vapours or spray. Do not swallow. Avoid contact with eyes.</li> </ul>



ion	Revision Date: 26.06.2024	-	•••••••••••	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
Hygien	e measures	:	Wash skin thorou Handle in accord practice, based o sessment Do not eat, drink Take care to prevenvironment. If exposure to che flushing systems place. When using do ne Wash contaminat The effective ope engineering contr appropriate degor industrial hygiene	or repeated contact with skin. ghly after handling. ance with good industrial hygiene and safety in the results of the workplace exposure as- or smoke when using this product. rent spills, waste and minimize release to the emical is likely during typical use, provide eye and safety showers close to the working of eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the tive controls
Conditions for safe storage:Keep in properly labelled containers. Store in accordance with the particular nationaMaterials to avoid:Do not store with the following product types: Store avoid is in a constant.			abelled containers. ice with the particular national regulations. the following product types:	
	Hygien Conditi	Hygiene measures Conditions for safe storage	Hygiene measures : Conditions for safe storage :	26.06.2024Avoid prolonged of Wash skin thorou Handle in accorda practice, based of sessment Do not eat, drink Take care to prevenvironment.Hygiene measures:If exposure to che flushing systems place. When using do not Wash contaminat The effective ope engineering contr appropriate degor industrial hygiene use of administraConditions for safe storage:Keep in properly Store in accordan

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 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
Propylene glycol	57-55-6	TWA (partic- ulate)	10 mg/m3	AU OEL
		TWA (Total (vapour and particles))	150 ppm 474 mg/m3	AU OEL
Glycerine	56-81-5	TWA (Mist)	10 mg/m3	AU OEL
Moxidectin	113507-06-5	TWA	10 µg/m3 (OEB 3)	Internal
		Wipe limit	100 µg/100 cm <sup>2</sup>	Internal
Ethanol	64-17-5	TWA	1,000 ppm 1,880 mg/m3	AU OEL
		STEL	1,000 ppm	ACGIH

Engineering measures

: 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



Version 3.6	Revision Date: 26.06.2024		92852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019		
			are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.			
Pers	onal protective equipr	ment				
Fi	Respiratory protection Filter type Hand protection		If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Combined particulates and organic vapour type			
М	Material		Chemical-resistant gloves			
Eye ç	Remarks Eye protection Skin and body protection		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. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially			
			contaminated clo	-		
SECTION	9. PHYSICAL AND CH	HEMI	CAL PROPERTIE	ES		
Арре	earance	:	: paste			
Color	ur	:	: yellow			
Odou	ır	:	: No data available			
Odou	Odour Threshold : No data avai		No data availab	le		

рН	:	No data available
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)	:	Not applicable
Flammability (liquids)	:	No data available



Vers 3.6	ion	Revision Date: 26.06.2024	-	S Number: 2852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relativ	e vapour density	:	Not applicable	
	Relative	e density	:	No data available	9
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available	)
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizii	ng properties	:	The substance of	mixture is not classified as oxidizing.
		lar weight	:	No data available	-
		characteristics	:	Not applicable	

# SECTION 10. STABILITY AND REACTIVITY

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

# SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes

: Skin contact



ersion 6	Revision Date: 26.06.2024		S Number: 92852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
			Ingestion Eye contact	
	e <b>toxicity</b> assified based on ava	ailable	information.	
Produ	ict:			
	oral toxicity	:	Acute toxicity e Method: Calcul	stimate: > 2,000 mg/kg ation method
Acute	inhalation toxicity	:	Exposure time: Test atmosphered	e: dust/mist
			Method: Calcula	ation method
Comp	onents:			
	ethylenebis[3-hydro /l-2-[2-(2-thienyl)vin			, compound with (E)-1,4,5,6-tetrahydro-1-
Acute	oral toxicity	:	LD50 (Rat): > 2	4,000 mg/kg
			LD50 (Mouse):	> 24,000 mg/kg
			LD50 (Dog): 2,0	000 mg/kg
Propy	lene glycol:			
Acute	oral toxicity	:	LD50 (Rat): 22,	000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4 Exposure time: Test atmosphere	4 h
Acute	dermal toxicity	:	LD50 (Rabbit): Assessment: Th toxicity	> 2,000 mg/kg ne substance or mixture has no acute derma
Glyce	rine:			
Acute	oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acute	dermal toxicity	:	LD50 (Guinea p	oig): > 5,000 mg/kg
Moxid	lectin:			
Acute	oral toxicity	:	LD50 (Rat): 106	δ mg/kg
			LD50 (Mouse):	42 - 84 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 3.2	
			Exposure time:	5 h re: dust/mist



Vers 3.6		Revision Date: 26.06.2024		0S Number: 92852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
				LC50 (Rat): 2.87 - Test atmosphere:	
	Acute de	ermal toxicity	:	LD50 (Rabbit): > 2 Remarks: No sign	2,000 mg/kg ificant adverse effects were reported
	Acute to administ	oxicity (other routes of tration)	:	LD50 (Rat): 394 n Application Route	
				LD50 (Mouse): 84 Application Route	
				LD50 (Rat): > 640 Application Route	
				LD50 (Mouse): 26 Application Route	
	Ethanol	l:			
	Acute or	ral toxicity	:	LD50 (Rat): 10,47 Method: OECD Te	
	Acute in	halation toxicity	:	LC50 (Rat, male): Exposure time: 4 Test atmosphere:	h
	Acute de	ermal toxicity	:	LD50 (Rabbit): > <sup>2</sup>	15,800 mg/kg
	Skin co	rrosion/irritation			
	Not clas	sified based on availa	ble	information.	
	<u>Compo</u>	nents:			
	Propyle	ene glycol:			
	Species Method	i	:	Rabbit OECD Test Guide	
	Result		:	No skin irritation	mile 404
	Glycerii	ne:			
	Species	i	:	Rabbit	
	Result		:	No skin irritation	
	Moxide	ctin:			
	Species Result	i	:	Rabbit Mild skin irritation	
	Ethanol	l:			
	Species Method	i	:	Rabbit OECD Test Guide	eline 404
_				0/01	



Version 3.6	Revision Date: 26.06.2024	-	OS Number: 92852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
Resu	lt	:	No skin irritation	
	ous eye damage/eye lassified based on ava			
<u>Com</u>	ponents:			
Prop	ylene glycol:			
Speci Resu Metho	lt	: : :	Rabbit No eye irritation OECD Test Guid	
Glyce	erine:			
Speci Resu		:	Rabbit No eye irritation	
Moxi	dectin:			
Speci Resu		:	Rabbit Moderate eye in	ritation
Ethar	nol:			
Speci Resu Metho	lt	:	Rabbit Irritation to eyes OECD Test Guie	, reversing within 21 days deline 405
Resp	iratory or skin sensi	tisatio	on	
	sensitisation lassified based on ava	ailable	information.	
Resp	iratory sensitisation	l		
	lassified based on ava	ailable	information.	
<u>Com</u>	ponents:			
	ylene glycol:			
Test Expos Speci Resu	sure routes ies	:	Maximisation Te Skin contact Guinea pig negative	est
		·	nogativo	
Moxi	dectin:			

Test Type	:	Buehler Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Result	:	Not a skin sensitizer.



rsion S	Revision Date: 26.06.2024	SDS Number: 4892852-00012	Date of last issue: 02.04.2024 2 Date of first issue: 17.09.2019
<b>Ethar</b> Test ∃ Expos Speci Resul	Гуре sure routes es	: Mouse ear : Skin contac : Mouse : negative	swelling test (MEST) ct
Chro	nic toxicity		
	cell mutagenicity assified based on av	ailable information.	
<u>Comp</u>	oonents:		
	nethylenebis[3-hydr yl-2-[2-(2-thienyl)vir		acid, compound with (E)-1,4,5,6-tetrahydro-1-
	toxicity in vitro		Bacterial reverse mutation assay (AMES)
Propy	/lene glycol:		
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
			Chromosome aberration test in vitro ECD Test Guideline 473 pative
Geno	toxicity in vivo	cytogenetic Species: M	ouse Route: Intraperitoneal injection
<b>Glyce</b> Geno	toxicity in vitro	: Test Type: Result: neg	In vitro mammalian cell gene mutation test ative
		Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
		Test Type: Result: neg	Chromosome aberration test in vitro ative
			DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) jative
Moxio	dectin:		
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES)



rsion S	Revision Date: 26.06.2024	SDS Number: 4892852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
			itro mammalian cell gene mutation test hinese hamster ovary cells e
		Test Type: in v Test system: E Result: negativ	scherichia coli
Geno	toxicity in vivo	: Test Type: Chr Species: Rat Cell type: Bone Result: negativ	
		Test Type: Uns mammalian live Species: Rat Cell type: Liver Result: negativ	cells
Ethar	nol:		
Geno	toxicity in vitro		terial reverse mutation assay (AMES) ) Test Guideline 471 e
			itro mammalian cell gene mutation test ) Test Guideline 476 e
		Test Type: Chr Result: negativ	omosome aberration test in vitro e
Geno	toxicity in vivo	: Test Type: Mar cytogenetic ass Species: Rat Application Rou Result: negativ	ute: Ingestion
Carci	nogenicity		
Not c	lassified based on av	ailable information.	
<u>Com</u>	oonents:		
Prop	ylene glycol:		
Speci		: Rat	
	cation Route sure time	: Ingestion : 2 Years	
Resu		: negative	
Glyce	erine:		
Speci	es	: Rat	



Versior 3.6	n Revision Date: 26.06.2024	SDS Number: 4892852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
Ex	oplication Route cposure time esult	: Ingestion : 2 Years : negative	
SF AF EX Re SF AF SF AF	oxidectin: pecies oplication Route coosure time DAEL esult opcies oplication Route coosure time DAEL esult opcies oplication Route coosure time	<ul> <li>Mouse</li> <li>Oral</li> <li>2 Years</li> <li>4.5 mg/kg bod</li> <li>negative</li> <li>Rat</li> <li>Oral</li> <li>2 Years</li> <li>4.5 mg/kg bod</li> <li>negative</li> <li>Dog</li> <li>Oral</li> <li>Years</li> <li>1 Years</li> </ul>	
NC Re Re	posure time DAEL esult eproductive toxicity	: 1 Years : 0.5 mg/kg boo : negative	ly weight
	ot classified based on avai omponents:	lable information.	
m	ethyl-2-[2-(2-thienyl)viny	]pyrimidine (1:1):	d, compound with (E)-1,4,5,6-tetrahydro-1-
	fects on foetal develop- ent	Species: Rat Application Ro Developmenta Result: No eff ment were de Test Type: En Species: Rabl Application Ro Developmenta	al Toxicity: NOAEL: 3,000 mg/kg body weight ects on fertility and early embryonic develop- tected. hbryo-foetal development bit bute: Oral al Toxicity: NOAEL: 1,000 mg/kg body weight ects on fertility and early embryonic develop-
	opylene glycol:		
Ef	fects on fertility	Species: Mou	oute: Ingestion
Ef	fects on foetal develop-	: Test Type: En	nbryo-foetal development



Version 3.6	Revision Date: 26.06.2024	SDS Number: 4892852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
mer	nt	Species: Mor Application R Result: nega	coute: Ingestion
Gly	cerine:	-	
Effe	cts on fertility	Species: Rat	coute: Ingestion
Effe mer	cts on foetal develop- nt	Species: Rat	coute: Ingestion
Мо	kidectin:		
Effe	cts on fertility	Species: Rat Application R General Toxi Symptoms: R Result: No ef	
		Species: Rat Application R General Toxi Symptoms: R Result: No ef	
Effe mer	cts on foetal develop- nt	Species: Rat Application R General Toxi Embryo-foeta Result: Skele	
		Species: Rat Application R General Toxi Developmen	
	productive toxicity - As- sment	: Some eviden animal exper	ce of adverse effects on development, based on iments.



Version	Revision Date:	SDS Number:	Date of last issue: 02.04.2024	
3.6	26.06.2024	4892852-00012	Date of first issue: 17.09.2019	

### Ethanol:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study
		Species: Mouse
		Application Route: Ingestion
		Result: negative

### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

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

## Components:

# Moxidectin:

Target Organs	:	Central nervous system
Assessment	:	Causes damage to organs through prolonged or repeated
		exposure.

### **Repeated dose toxicity**

### **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):

Species SNOAEL SUDAEL S	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:



Version 3.6	Revision Date: 26.06.2024	SDS Number: 4892852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
		: Rat, male : >= 1,700 mg/kg : Ingestion : 2 yr	J
Spe NO/ LOA App	\EL	: Rat : 0.167 mg/l : 0.622 mg/l : inhalation (dust : 13 Weeks	/mist/fume)
		: Rat : 8,000 - 10,000 : Ingestion : 2 yr	mg/kg
		: Rabbit : 5,040 mg/kg : Skin contact : 45 Weeks	
Spe NOA LOA App Exp	\EL	: Mouse : 3.9 mg/kg : 15.4 mg/kg : Oral : 4 Weeks : Tremors	
Exp Targ	\EL	: Rat : 3.9 mg/kg : 7.9 mg/kg : Oral : 13 Weeks : Central nervous : Tremors, Saliva	
Exp Targ	\EL	: Dog : 0.3 mg/kg : 0.9 mg/kg : Oral : 90 Days : Central nervous : Tremors, Lachr	s system ymation, Salivation
Exp		: Dog : 1.15 mg/kg : Oral : 52 Weeks : Central nervous	s system



Version 3.6	Revision Date: 26.06.2024	SDS Number: 4892852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
Sym	otoms	: Tremors, Lachr	ymation
Etha	nol:		
	EL	: Rat : 1,730 mg/kg : 3,200 mg/kg : Ingestion : 90 Days	
•	ration toxicity classified based on ava	ailable information.	
Expe	erience with human e	xposure	
<u>Com</u>	ponents:		
	methylenebis[3-hydro nyl-2-[2-(2-thienyl)vin		l, compound with (E)-1,4,5,6-tetrahydro-1-
Inges	stion	: Symptoms: Abo Headache, Diz	dominal pain, Nausea, Vomiting, Diarrhoea, ziness, Fever
Мохі	dectin:		
	contact contact	: Remarks: No h : Remarks: No h	uman information is available. uman information is available. uman information is available. uman information is available.

# SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

### **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	:	Toxic effects cannot be excluded
<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



Version 3.6	Revision Date: 26.06.2024		92852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
			Method: OECD T	est Guideline 201
aqu	atic invertebrates (Chron-	:	NOEC (Ceriodap Exposure time: 7	hnia dubia (water flea)): 13,020 mg/l d
	oxicity) icity to microorganisms	:	NOEC (Pseudom Exposure time: 1	ionas putida): > 20,000 mg/l 8 h
Gly	cerine:			
Тох	icity to fish	:	LC50 (Oncorhyno Exposure time: 9	chus mykiss (rainbow trout)): 54,000 mg/l 6 h
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia n Exposure time: 4	nagna (Water flea)): 1,955 mg/l 8 h
Тох	icity to microorganisms	:	NOEC (Pseudom Exposure time: 10 Method: DIN 38 4	
Мо	xidectin:			
Тох	icity to fish	:	Exposure time: 9	nacrochirus (Bluegill sunfish)): 0.0006 mg/l 6 h est Guideline 203
			Exposure time: 9	chus mykiss (rainbow trout)): 0.0002 mg/l 6 h rest Guideline 203
	icity to daphnia and other atic invertebrates	:	Exposure time: 4	nagna (Water flea)): 0.00003 mg/l 8 h rest Guideline 202
Tox plar	icity to algae/aquatic nts	:	mg/l Exposure time: 72	chneriella subcapitata (green algae)): 0.087 2 h rest Guideline 201
Eth	anol:			
Тох	icity to fish	:	LC50 (Pimephale Exposure time: 9	es promelas (fathead minnow)): 14,200 mg/l 6 h
	icity to daphnia and other atic invertebrates	:	EC50 (Ceriodaph Exposure time: 4	nia dubia (water flea)): 5,012 mg/l 8 h
Tox plar	icity to algae/aquatic hts	:	ErC50 (Chlorella Exposure time: 7	vulgaris (Fresh water algae)): 275 mg/l 2 h
			EC10 (Chlorella v Exposure time: 72	/ulgaris (Fresh water algae)): 11.5 mg/l 2 h



ersion .6	Revision Date: 26.06.2024		92852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
Toxicit icity)	ty to fish (Chronic tox-	:	NOEC (Oryzias la Exposure time: 1	atipes (Japanese medaka)): >= 79 mg/l 00 d
aquation	c invertebrates (Chron-	:	NOEC (Daphnia Exposure time: 9	magna (Water flea)): 9.6 mg/l d
ic toxic Toxicit	city) ty to microorganisms	:	EC50 (Protozoa) Exposure time: 4	
Persis	stence and degradabili	ty		
<u>Comp</u>	onents:			
	r <b>lene glycol:</b> gradability	:	Biodegradation: Exposure time: 2	98.3 %
<b>Glyce</b> Biodeg	<b>rine:</b> gradability	:	Biodegradation: Exposure time: 3	92 %
<b>Ethan</b> Biodeg	<b>ol:</b> gradability	:	Result: Readily b Biodegradation: Exposure time: 2	84 %
Bioac	cumulative potential			
<u>Comp</u>	onents:			
Partitic	r <b>lene glycol:</b> on coefficient: n- bl/water	:	log Pow: -1.07 Method: Regulati	on (EC) No. 440/2008, Annex, A.8
	<b>rine:</b> on coefficient: n- ol/water	:	log Pow: -1.75	
	lectin: on coefficient: n- bl/water	:	log Pow: 4.7	
<b>Ethan</b> Partitic		:	log Pow: -0.35	



VersionRevision Date:SDS Number:Date of last issue: 02.04.20243.626.06.20244892852-00012Date of first issue: 17.09.2019	
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Mobility in soil No data available Other adverse effects

No data available

# SECTION 13. DISPOSAL CONSIDERATIONS

Disposal r	nethods
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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 han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

## SECTION 14. TRANSPORT INFORMATION

## International Regulations

<b>UNRTDG</b> UN number		UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
	•	N.O.S. (Moxidectin)
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. (Moxidectin)
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.
Class		(Moxidectin) 9
Packing group	:	9 
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
	•	yoo



Version	Revision Date:	SDS Number:	Date of last issue: 02.04.2024
3.6	26.06.2024	4892852-00012	Date of first issue: 17.09.2019

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

Not applicable for product as supplied.

### **National Regulations**

ADG	
UN number : UN 3077	
Proper shipping name : ENVIRONM N.O.S. (Moxidectir	IENTALLY HAZARDOUS SUBSTANCE, SOLID,
Class : 9	
Packing group : III	
Labels : 9	
Hazchem Code : 2Z	
Environmentally hazardous : yes	

#### 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 mix- ture			
Therapeutic Goods (Poisons Standard) Instrument		use the original publication to check for fic conditions or threshold limits that might cal)	
Prohibition/Licensing Requirem	ents	: There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.	
The components of this product are reported in the following inventories:			
DSL	: not determined		
AICS	: not determined		
IECSC	: not determined		

### SECTION 16: ANY OTHER RELEVANT INFORMATION

Eurthor information

Further information		
Revision Date	:	26.06.2024
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 Agen- cy, http://echa.europa.eu/



3.6         26.06.2024         4892852-00012         Date of first issue: 17.09.2019	Version 3.6	Revision Date: 26.06.2024	SDS Number: 4892852-00012	Date of last issue: 02.04.2024 Date of first issue: 17.09.2019
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Date format	:	dd.mm.yyyy	
Full text of other abbreviations			
ACGIH AU OEL	:	USA. ACGIH Threshold Limit Values (TLV) Australia. Workplace Exposure Standards for Airborne Con- taminants.	
ACGIH / STEL AU OEL / TWA	:	Short-term exposure limit Exposure standard - time weighted average	

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, 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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