according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
2.1	30.09.2023	3771220-00015	Date of first issue: 19.11.2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Febantel / Pyrantel Pamoate / Praziquantel Formulation			
Manufacturer or supplier's details					
Company	•	MSD			
Address	:	Briahnager - Off Pune Nagar Road Wagholi - Pune - India 412 207			
Telephone	:	+1-908-740-4000			
Emergency telephone number	:	+1-908-423-6000			
E-mail address	:	EHSDATASTEWARD@msd.com			
Recommended use of the chemical and restrictions on use					
Recommended use Restrictions on use	:	Veterinary product Not applicable			

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification		
Acute toxicity (Oral)	:	Category 5
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements		
Hazard pictograms	:	₩ <u></u>
Signal word	:	Warning
Hazard statements	:	H303 May be harmful if swallowed. H401 Toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
		1 / 17

according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziguantel Formulation

2

Version Revision Date: 2.1 30.09.2023

SDS Number: 3771220-00015

Date of last issue: 04.04.2023 Date of first issue: 19.11.2018

Precautionary statements

Prevention:

P273 Avoid release to the environment.

Response:

P301 + P317 IF SWALLOWED: Get medical help. P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 21.82 %

Other hazards which do not result in classification

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture :

Components

Chemical name	CAS-No.	Concentration (% w/w)
a		,
Cellulose	9004-34-6	>= 20 - < 30
Febantel	58306-30-2	>= 20 - < 25
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	>= 20 - < 30
praziquantel	55268-74-1	>= 5 - < 10
Starch	9005-25-8	>= 5 - < 10

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. Get medical attention if symptoms occur.
In case of eye contact	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.



according to the Globally Harmonized System

Ver 2.1	sion	Revision Date: 30.09.2023		OS Number: 71220-00015	Date of last issue: 04.04.2023 Date of first issue: 19.11.2018
	and eff delayed Protect	nportant symptoms ects, both acute and d tion of first-aiders to physician	:	 May be harmful if swallowed. Contact with dust can cause mechanical irritation or dryir the skin. Dust contact with the eyes can lead to mechanical irritati First Aid responders should pay attention to self-protection and use the recommended personal protective equipmer when the potential for exposure exists (see section 8). Treat symptomatically and supportively. 	
5. F	IREFIG	HTING MEASURES			
Suitable extinguishing media		:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical		
	Unsuitable extinguishing media		:	None known.	
	Specific hazards during fire- fighting		:	concentrations, an potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. oustion products may be a hazard to health.
	Hazardous combustion prod- : ucts		:	Carbon oxides Nitrogen oxides (I Sulphur oxides	NOx)
	Specifi ods	c extinguishing meth-	 Use extinguishing measures that are appropriate cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it so. Evacuate area. 		he surrounding environment. o cool unopened containers.
	Specia for firef	l protective equipment ighters	t : In the event of fire, wear self-contained breathing appa Use personal protective equipment.		
6. A	CCIDE	NTAL RELEASE MEA	SUF	RES	
	Personal precautions, protec- : tive equipment and emer- gency procedures		:	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro- 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.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re-

according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Version 2.1	Revision Date: 30.09.2023	SDS Number: 3771220-00015	Date of last issue: 04.04.2023 Date of first issue: 19.11.2018		
		Local or natio posal of this r employed in t mine which re Sections 13 a	leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.		
7. HAND	LING AND STORAGE				
Tech	nnical measures	causing an ex Provide adeq and bonding,	uate precautions, such as electrical grounding or inert atmospheres.		
	al/Total ventilation ce on safe handling	: Do not breath Do not swallo Avoid contact Avoid prolong Handle in acc practice, base sessment Minimize dus Keep contain Keep away fr Take precaut	W.		
	ditions for safe storage erials to avoid	: Keep in prope Store in acco : Do not store	 Keep in properly labelled containers. Store in accordance with the particular national regulations. Do not store with the following product types: Strong oxidizing agents 		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	TWA	10 mg/m3	ACGIH
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
praziquantel	55268-74-1	TWA	0.5 mg/m3 (OEB 2)	Internal
Starch	9005-25-8	TWA	10 mg/m3	ACGIH

Engineering measures

: All engineering controls should be implemented by facility

according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Version 2.1	Revision Date: 30.09.2023	SDS Number: 3771220-00015	Date of last issue: 04.04.2023 Date of first issue: 19.11.2018			
		protect produ Containment are required				
Pers	onal protective equipr	nent				
Fi	iratory protection Iter type I protection	sure assessn ommended g	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type			
М	aterial	: Chemical-res	Chemical-resistant gloves			
	emarks protection	: Wear safety of If the work er mists or aero Wear a faces	Consider double gloving. Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols			
Skin	Skin and body protection :		or laboratory coat. dy garments should be used based upon the task ned (e.g., sleevelets, apron, gauntlets, disposable d exposed skin surfaces. ate degowning techniques to remove potentially d clothing.			
Hygi	Hygiene measures		to chemical is likely during typical use, provide eye ems and safety showers close to the working do not eat, drink or smoke. ninated clothing before re-use. operation of a facility should include review of controls, proper personal protective equipment, legowning and decontamination procedures, iene monitoring, medical surveillance and the istrative controls.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available

according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Vers 2.1	ion	Revision Date: 30.09.2023		S Number: 1220-00015	Date of last issue: 04.04.2023 Date of first issue: 19.11.2018			
				No data available				
	Melting point/freezing point		:	No data available				
	Initial boiling point and boiling range		:	No data available				
	Flash point		:	Not applicable				
	Evapor	ation rate	:	Not applicable				
	Flammability (solid, gas)		:	May form explosion dling or other mea	ve dust-air mixture during processing, han- ans.			
	Flamma	ability (liquids)	:	Not applicable				
		explosion limit / Upper bility limit	:	No data available				
	Lower explosion limit / Lower flammability limit		:	No data available				
	Vapour	pressure	:	Not applicable				
	Relative	e vapour density	:	Not applicable				
	Relative	e density	:	No data available				
	Density	,	:	No data available				
	Solubility(ies)			N I I 2 11 11				
	Wat	er solubility	:	No data available				
	Partition octanol	n coefficient: n- /water	:	Not applicable				
		nition temperature	:	No data available				
	Decomposition temperature		:	No data available				
	Viscosi	ty osity, kinematic		Not applicable				
		•	•					
	Explosi	ve properties	÷	Not explosive				
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.			
	Molecu	lar weight	:	No data available				
	Particle	size	:	No data available				

10. STABILITY AND REACTIVITY

according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Vers 2.1	ion	Revision Date: 30.09.2023		S Number: /1220-00015	Date of last issue: 04.04.2023 Date of first issue: 19.11.2018				
	Reactivity Chemical stability Possibility of hazardous reac- tions Conditions to avoid Incompatible materials Hazardous decomposition products		: :	Stable under norm May form explosi dling or other met	ve dust-air mixture during processing, han-				
			:	 Heat, flames and sparks. Avoid dust formation. Oxidizing agents No hazardous decomposition products are known. 					
			:						
11. 1	гохісо	LOGICAL INFORMAT	TION						
	Informa exposu	tion on likely routes of re	:	Inhalation Skin contact Ingestion Eye contact					
	Acute toxicity May be harmful if swallowed. <u>Product:</u> Acute oral toxicity								
			:	Acute toxicity estir Method: Calculation					
	Compo	onents:							
	Cellulose:								
	Acute o	oral toxicity	:	LD50 (Rat): > 5,00	00 mg/kg				
	Acute ir	nhalation toxicity	:	LC50 (Rat): > 5.8 Exposure time: 4 I Test atmosphere:	า				
	Acute d	lermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg				
	Febant	el·							
		oral toxicity	:	LD50 (Rabbit): 1,2	250 mg/kg				
	Acute d	lermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg				
	4,4'-methylenebis[3-hydroxy methyl-2-[2-(2-thienyl)vinyl]r				ompound with (E)-1,4,5,6-tetrahydro-1-				
	-	oral toxicity		LD50 (Rat): > 24,0	000 mg/kg				
				LD50 (Mouse): > 2	24,000 mg/kg				
				LD50 (Dog): 2,000) mg/kg				

praziquantel:

according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziquantel Formulation

oral toxicity			
oral toxicity			
-	:	LD50 (Rat): 2,48	30 mg/kg
		LD50 (Mouse): 2	2,454 mg/kg
		LD50 (Dog): > 20	00 mg/kg
		LD50 (Rabbit): 1	,050 mg/kg
h:			
oral toxicity	:	LD50 (Rat): > 5,0	000 mg/kg
dermal toxicity	:	LD50 (Rabbit): >	• 2,000 mg/kg
corrosion/irritation	-:labla	information	
	aliable	iniornation.	
	:	Rabbit	
t	:	No skin irritation	
quantel:			
es	:	Rabbit	
rks	:	Draize Test slight irritation	
us eye damage/eye	irritati	on	
assified based on ava			
oonents:			
ntel:			
es	:	Rabbit	
t	:	No eye irritation	
quantel:			
es	:	Rabbit	
od t	:	Draize Test Mild eye irritatior	ı
h:			
es	:	Rabbit	
t	:	No eye irritation	
iratory or skin sensi	itisatio	on	
	oral toxicity dermal toxicity corrosion/irritation assified based on avaination conents: ntel: es t quantel: es t d rks us eye damage/eye assified based on avaination conents: ntel: es t quantel: es t t quantel: es t t ratory or skin sensitisation	oral toxicity : dermal toxicity : dermal toxicity : corrosion/irritation assified based on available conents: ntel: es : quantel: es : id : quantel: es : onents: ntel: es : quantel: es : onents: ntel: es it it es it it it it es it it	LD50 (Rabbit): 1 h: oral toxicity : LD50 (Rat): > 5,4 dermal toxicity : LD50 (Rabbit): > corrosion/irritation assified based on available information. conents: ntel: es : Rabbit dd : Draize Test rks : slight irritation assified based on available information. conents: ntel: es : Rabbit t : No eye irritation assified based on available information. conents: ntel: es : Rabbit t : No eye irritation appantel: es : Rabbit appantel: es : Rabb

Not classified based on available information.

according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
2.1	30.09.2023	3771220-00015	Date of first issue: 19.11.2018

Respiratory sensitisation

Not classified based on available information.

Components:

praziquantel:

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

Starch:

Test Type	:	Maximisation Test
Exposure routes	:	Skin contact
Species	:	Guinea pig
Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Cellulose:	
Genotoxicity in vitro :	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: In vitro mammalian cell gene mutation test Result: negative
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative
Febantel:	
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) Result: negative
Genotoxicity in vivo :	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative

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

according to the Globally Harmonized System



ersion 1	Revision Date: 30.09.2023	SDS Number:Date of last issue: 04.04.20233771220-00015Date of first issue: 19.11.2018	
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AM Result: negative	ES)
praziquantel:			
-	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AM Result: negative	ES)
		Test Type: Chromosomal aberration Test system: Chinese hamster cells Result: negative	
Geno	toxicity in vivo	: Test Type: Micronucleus test Species: Rat Result: negative	
Starc	h:		
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AM Result: negative	ES)
Carci	nogenicity		
Not classified based on avail Components: Cellulose:		ilable information.	
Speci		: Rat	
	cation Route	: Ingestion	
	cation Route sure time		
Expos Resu	cation Route sure time It	: Ingestion : 72 weeks	
Expos Resul	cation Route sure time It ntel:	 Ingestion 72 weeks negative 	
Expos Resul Feba Speci	cation Route sure time It ntel: ies	 Ingestion 72 weeks negative Mouse 	
Expos Resul Feba Speci Applic Expos	cation Route sure time It ntel: es cation Route sure time	 Ingestion 72 weeks negative 	
Expos Resul Feba Speci Applio	cation Route sure time It ntel: es cation Route sure time	 Ingestion 72 weeks negative Mouse Ingestion 	
Expos Resul Speci Applic Expos Resul	cation Route sure time It ntel: es cation Route sure time It	 Ingestion 72 weeks negative Mouse Ingestion 21 Months 	
Expos Resul Speci Applic Expos Resul	cation Route sure time It ntel: ntel: cation Route sure time It quantel:	 Ingestion 72 weeks negative Mouse Ingestion 21 Months negative 	
Expos Resul Speci Applic Expos Resul prazi Speci	cation Route sure time It ntel: ntel: cation Route sure time It quantel:	 Ingestion 72 weeks negative Mouse Ingestion 21 Months 	
Expos Resul Speci Applic Expos Resul prazi Speci Applic Expos	cation Route sure time It ntel: es cation Route sure time It quantel: es cation Route sure time	 Ingestion 72 weeks negative Mouse Ingestion 21 Months negative Hamster Oral 80 weeks 	
Expos Resul Speci Applic Expos Resul Speci Applic Expos NOAE	cation Route sure time It ntel: es cation Route sure time It quantel: es cation Route sure time sure time	 Ingestion 72 weeks negative Mouse Ingestion 21 Months negative Hamster Oral 80 weeks 100 mg/kg body weight 	
Expos Resul Speci Applic Expos Resul Speci Applic Expos NOAE Resul	cation Route sure time It ntel: es cation Route sure time It quantel: es cation Route sure time EL	 Ingestion 72 weeks negative Mouse Ingestion 21 Months negative Hamster Oral 80 weeks 100 mg/kg body weight negative 	
Expos Resul Speci Applic Expos Resul Speci Applic Expos NOAE	cation Route sure time It ntel: es cation Route sure time It quantel: es cation Route sure time EL	 Ingestion 72 weeks negative Mouse Ingestion 21 Months negative Hamster Oral 80 weeks 100 mg/kg body weight 	
Expos Resul Speci Applic Expos Resul Speci Applic Expos Resul Resul Rema	cation Route sure time It ntel: es cation Route sure time It quantel: es cation Route sure time EL t arks	 Ingestion 72 weeks negative Mouse Ingestion 21 Months negative Hamster Oral 80 weeks 100 mg/kg body weight negative 	
Expos Resul Speci Applic Expos Resul Speci Applic Expos NOAE Resul Rema	cation Route sure time It ntel: es cation Route sure time It quantel: es cation Route sure time EL It arks	 Ingestion 72 weeks negative Mouse Ingestion 21 Months negative Hamster Oral 80 weeks 100 mg/kg body weight negative Rat Oral 	
Expos Resul Speci Applic Expos Resul Speci Applic Expos NOAE Resul Rema	cation Route sure time It ntel: es cation Route sure time It quantel: es cation Route sure time EL It arks es cation Route sure time	 Ingestion 72 weeks negative Mouse Ingestion 21 Months negative Hamster Oral 80 weeks 100 mg/kg body weight negative Rat	

according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Versior 2.1	n Revision Date: 30.09.2023		DS Number: 71220-00015	Date of last issue: 04.04.2023 Date of first issue: 19.11.2018		
	Result Remarks		negative No significant ad	verse effects were reported		
	eproductive toxicity ot classified based on avai	lable	information.			
<u>Cc</u>	omponents:					
Ce	ellulose:					
Ef	fects on fertility	:	Test Type: One- Species: Rat Application Rout Result: negative	generation reproduction toxicity study e: Ingestion		
	Effects on foetal develop- ment		: Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative			
Fe	ebantel:					
Ef	Effects on fertility		Species: Rat Application Rout	generation reproduction toxicity study e: Ingestion Fest Guideline 416		
	fects on foetal develop- ent	:	Species: Rat Application Rout	generation reproduction toxicity study e: Ingestion Fest Guideline 416		
				compound with (E)-1,4,5,6-tetrahydro-1-		
	methyl-2-[2-(2-thienyl)vinyl]pyri Effects on foetal develop- : ment		Species: Rat Application Rout Developmental T Result: No effect ment were detect Test Type: Embr Species: Rabbit Application Rout Developmental T	oxicity: NOAEL: 3,000 mg/kg body weights on fertility and early embryonic develop-ted.yo-foetal developmente: Oraloxicity: NOAEL: 1,000 mg/kg body weights on fertility and early embryonic develop-		

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according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Version 2.1	Revision Date: 30.09.2023	SDS Number: 3771220-00015	Date of last issue: 04.04.2023 Date of first issue: 19.11.2018					
Effects on fertility		Species: Rat	: Test Type: Fertility Species: Rat Remarks: No significant adverse effects were reported					
		Test Type: Fe Species: Mou Remarks: No	•					
Effect ment	s on foetal develop-	: Test Type: De Species: Rat Remarks: No	evelopment significant adverse effects were reported					
		Test Type: De Species: Mou Remarks: No						

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Cellulose:

Species	:	Rat
NOAEL	:	>= 9,000 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days

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):

LOAEL Application Route Exposure time		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

according to the Globally Harmonized System



Versio 2.1	on	Revision Date: 30.09.2023	-	OS Number: 71220-00015	Date of last issue: 04.04.2023 Date of first issue: 19.11.2018
	Specie: NOAEL		:	Dog 600 mg/kg	
	Application Route Exposure time			Oral	
				90 d	
ŀ	Remarks :			No significant adv	verse effects were reported
F	oraziqu	uantel:			
5	Species	6	:	Rat	
	NOAEL		:	1,000 mg/kg	
	Applica Remarl	tion Route	÷	Oral	verse effects were reported
Г	Teman	15	•	No significant au	verse effects were reported
	Specie: NOAEL		:	Dog 60 mg/kg	
			:	60 mg/kg 180 mg/kg	
_		tion Route	÷	Oral	
		Organs	:	Gastrointestinal t	
ŀ	Remarl	<s< td=""><td>:</td><td>No significant adv</td><td>verse effects were reported</td></s<>	:	No significant adv	verse effects were reported
5	Starch	:			
	Species		:	Rat	
	NOAEL Application Route Exposure time		÷	>= 2,000 mg/kg Skin contact	
			÷	28 Days	
	Vethod		:	OECD Test Guid	eline 410
ŀ	Aspirat	tion toxicity			
١	Not clas	ssified based on availa	able	information.	
E	Experience with human exposu			ire	
C	Compo	onents:			
		ethylenebis[3-hydrox -2-[2-(2-thienyl)vinyl			compound with (E)-1,4,5,6-tetrahydro-1-
I	ngestic	on	:	Symptoms: Abdo Headache, Dizzir	minal pain, Nausea, Vomiting, Diarrhoea, ness, Fever
F	oraziqu	uantel:			
I	nhalati	on	:		ache, Tiredness, Dizziness, Gastrointestinal
				discomfort, decre	ase body temperature, Allergic reactions
12. E	COLO	GICAL INFORMATIO	N		
E	Ecotox	licity			
<u>c</u>	Compo	onents:			
C	Cellulo	se:			
٦	Toxicity	v to fish	:	LC50 (Oryzias lat	tipes (Japanese medaka)): > 100 mg/l
	-				-

according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Vers 2.1	sion	Revision Date: 30.09.2023		0S Number: 71220-00015	Date of last issue: 04.04.2023 Date of first issue: 19.11.2018
				Exposure time: 48 Remarks: Based o	h on data from similar materials
	Febant	el:			
	Toxicity	r to fish	:	LC50 (Danio rerio Exposure time: 96	(zebra fish)): > 100 mg/l S h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.2 mg/l 3 h
	Toxicity plants	to algae/aquatic	:	ErC50 (Desmode mg/l Exposure time: 72 Method: OECD Te	
	M-Facto icity)	or (Acute aquatic tox-	:	1	
		to daphnia and other invertebrates (Chron- ty)	:	Method: OECD To	l d magna (Water flea)
	M-Facto toxicity)	or (Chronic aquatic	:	10	

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
praziquantel:		
Toxicity to fish	:	LC50 (Carassius auratus (goldfish)): 29.2 mg/l Exposure time: 96 hrs Method: OECD Test Guideline 203
		LC50 (Danio rerio (zebra fish)): 31.6 mg/l Exposure time: 96 hrs Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 35 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to microorganisms	:	EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition of activated sludge

according to the Globally Harmonized System



Version 2.1	Revision Date: 30.09.2023		DS Number: 71220-00015	Date of last issue: 04.04.2023 Date of first issue: 19.11.2018
			Method: OECD	Test Guideline 209
Persi	istence and degradat	oility		
Com	ponents:			
	l lose: egradability	:	Result: Readily	biodegradable.
Bioa	ccumulative potentia	I		
Com	ponents:			
	ntel: ion coefficient: n- iol/water	:	log Pow: 1.95 Remarks: Calci	ulation
Partit	quantel: ion coefficient: n- iol/water	:	log Pow: 2.012 pH: 7	
	lity in soil ata available			
	r adverse effects ata available			
13. DISPC	SAL CONSIDERATIO	ONS		
Disp	osal methods			
•	e from residues	:		of waste into sewer.
Conta	aminated packaging	:	Empty contained	ccordance with local regulations. rs should be taken to an approved waste har cycling or disposal. specified: Dispose of as unused product.
14. TRAN	SPORT INFORMATIC	N		
Interi	national Regulations			
	TDG umber er shipping name	:	UN 3077 ENVIRONMEN N.O.S.	TALLY HAZARDOUS SUBSTANCE, SOLID,

according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Version 2.1	Revision Date: 30.09.2023		DS Number: 71220-00015	Date of last issue: 04.04.2023 Date of first issue: 19.11.2018			
UN/ID No.		:	UN 3077				
Proper shipping name		:	Environmentally hazardous substance, solid, n.o.s. (Febantel)				
Class	5	:	9				
Packing group Labels Packing instruction (cargo aircraft)		:					
		:	Miscellaneous				
		:	956				
	ng instruction (passen- ircraft)	:	956				
Ĕnvir	onmentally hazardous	:	yes				
IMDO	G-Code						
UN n	umber	:	UN 3077				
Prope	er shipping name	:	ENVIRONMENTA N.O.S. (Febantel)	ALLY HAZARDOUS SUBSTANCE, SOLID,			
Class	5	:	9				
	ng group	:	III				
Labe		:	9				
	Code	:	F-A, S-F				
Marin	e pollutant	:	yes				

Transport in bulk according to IMO instruments

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

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

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

16. OTHER INFORMATION

Further information Sources of key data used to : Internal technical data, data from raw material SDSs, OECD	Revision Date	30.09.2023	
compile the Safety Data eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/	Sources of key data used to compile the Safety Data	eChem Portal search results and E	,

according to the Globally Harmonized System



Febantel / Pyrantel Pamoate / Praziquantel Formulation

VersionRevision Date:SDS Number:Date of last issue: 04.04.20232.130.09.20233771220-00015Date of first issue: 19.11.2018

Date format	:	dd.mm.yyyy
Full text of other abbreviat	ions	
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	:	8-hour, 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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