

Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
2.1	30.09.2023	3771251-00015	Date of first issue: 19.11.2018

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Febantel / Pyrantel Pamoate / Praziquantel Formulation		
Manufacturer or supplier's details				
Company name of supplier	:	MSD		
Address	:	126 E. Lincoln Avenue		
		Rahway, New Jersey U.S.A. 07065		
Telephone	:	908-740-4000		
Emergency telephone	:	1-908-423-6000		
E-mail address	:	EHSDATASTEWARD@msd.com		
Recommended use of the chemical and restrictions on use				
Recommended use	:	Veterinary product		
Restrictions on use	:	Not applicable		

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	:	Category 5
GHS label elements Signal Word	:	Warning
Hazard Statements	:	H303 May be harmful if swallowed.
Precautionary Statements	:	Response: P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

Other hazards

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	>= 20 -< 30
Febantel	58306-30-2	>= 20 -< 30
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



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SECTION	4. FIRST AID MEASU	RES			
Gene	ral advice	advice immed	accident or if you feel unwell, seek medical liately. ms persist or in all cases of doubt seek medical		
lf inha	aled	,	nove to fresh air. Ittention if symptoms occur.		
In cas	se of skin contact	: Wash with wa Get medical a	ter and soap. Ittention if symptoms occur.		
In case of eye contact		: If in eyes, rins	e well with water. Ittention if irritation develops and persists.		
If swallowed		: If swallowed, Get medical a	DO NOT induce vomiting. Ittention if symptoms occur. Thoroughly with water.		
	important symptoms iffects, both acute and ed	: May be harmf Contact with o the skin.	: May be harmful if swallowed. Contact with dust can cause mechanical irritation or drying of		
Prote	ction 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	s to physician		matically and supportively.		

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Sulfur oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES



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

SECTION 7. HANDLING AND STORAGE

Technical measures	 Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation Advice on safe handling	 Use only with adequate ventilation. Do not breathe dust. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety
Hygiene measures	 practice, based on the results of the workplace exposure assessment Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures,



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	itions for safe storage rials to avoid	Store in accord	y labeled containers. ance with the particular national regulations. th the following product types:

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
Cellulose	9004-34-6	VLE-PPT	10 mg/m ³	NOM-010- STPS-2014
		TWA	10 mg/m ³	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	VLE-PPT	10 mg/m ³	NOM-010- STPS-2014
		TWA	10 mg/m ³	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 are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.
Personal protective equipmer	t
Respiratory protection :	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type : Hand protection	Particulates type
Material :	Chemical-resistant gloves
Remarks : Eye 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.



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		nd body protection		task being perform disposable suits) Use appropriate d contaminated clot	arments should be used based upon the ned (e.g., sleevelets, apron, gauntlets, to avoid exposed skin surfaces. legowning techniques to remove potentially hing.
SEC		. PHYSICAL AND CHE		·	
	Appear	rance	:	powder	
	Color		:	yellow	
	Odor		:	No data available	
	Odor T	hreshold	:	No data available	
	рН		:	No data available	9
	Melting	point/freezing point	:	No data available	9
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	point	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamm	ability (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.
	Flamm	ability (liquids)	:	Not applicable	
		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	:	No data available	
	Vapor	pressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relativ	e density	:	No data available)
	Density	/	:	No data available	9
	Solubil Wat	ity(ies) ter solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octano Autoigr	nition temperature	:	No data available	3



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Dec	composition temperature	:	No data available	e
	cosity Viscosity, kinematic vlosive properties	:	Not applicable Not explosive	
Mo	dizing properties ecular weight ticle size	:	The substance of No data available	-

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during proces handling or other means. Can react with strong oxidizing agents.	ssing,
Conditions to avoid	Heat, flames and sparks. Avoid dust formation.	
Incompatible materials Hazardous decomposition products	Oxidizing agents No hazardous decomposition products are knowr	۱.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes Inhalation Skin contact Ingestion Eye contact	of	exposure
Acute toxicity May be harmful if swallowed.		
Product: Acute oral toxicity	:	Acute toxicity estimate: 4,708 mg/kg Method: Calculation method
<u>Components:</u>		
Cellulose: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist



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Acute	dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg	
Feba	ntel:		
Acute	oral toxicity	: LD50 (Rabbit): 1,250 mg/kg	
Acute	dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg	
	lethylenebis[3-hydr yl-2-[2-(2-thienyl)vin	xy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrah	ydro
	oral toxicity	: LD50 (Rat): > 24,000 mg/kg	
		LD50 (Mouse): > 24,000 mg/kg	
		LD50 (Dog): 2,000 mg/kg	
Prazi	quantel:		
Acute	oral toxicity	: LD50 (Rat): 2,480 mg/kg	
		LD50 (Mouse): 2,454 mg/kg	
		LD50 (Dog): > 200 mg/kg	
		LD50 (Rabbit): 1,050 mg/kg	
Starc			
Acute	oral toxicity	: LD50 (Rat): > 5,000 mg/kg	
Acute	dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg	
	corrosion/irritation assified based on ava	ilable information	
	oonents:		
Feba			
Speci Resul		: Rabbit : No skin irritation	
Prazi	quantel:		
Speci Metho	bd	: Rabbit : Draize Test	
Rema	Irks	: slight irritation	

Not classified based on available information.



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<u>Comp</u>	Components:							
Feban	tel:							
Specie	es	: Rabbit						
Result		: No eye irritation	1					
Praziq	uantel:							
Specie		: Rabbit						
Result		: Mild eye irritation	on					
Metho	d	: Draize Test						
Starch	1:							
Specie		: Rabbit						
Result		: No eye irritation	1					
Respi	ratory or skin sens	itization						
	ensitization							
Not cla	assified based on av	ailable information.						
Respi	ratory sensitizatior	on						
Not cla	assified based on av	ailable information.						
<u>Comp</u>	onents:							
Praziq	uantel:							
Test T	уре	: Maximization T	est					
	s of exposure	: Dermal						
Specie		: Guinea pig						
Result		: Not a skin sens	sitizer.					
Starch	n:							
Test T	уре	: Maximization T	est					
	s of exposure	: Skin contact						
Specie		: Guinea pig						
Result		: negative						
	cell mutagenicity							
	assified based on av	ailable information.						
<u>Comp</u>	onents:							
Cellul								
Genot	oxicity in vitro	: Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e					
		Test Type: In v Result: negativ	itro mammalian cell gene mutation test e					
Genot	oxicity in vivo	: Test Type: Mar cytogenetic ass	nmalian erythrocyte micronucleus test (in v sav)					



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		Species: Mouse Application Route: Ingestion Result: negative
Feba	ntel·	
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: DNA damage and repair, unscheduled DNA sy thesis in mammalian cells (in vitro) Result: negative
Geno	toxicity in vivo	 Test Type: Mammalian erythrocyte micronucleus test (in v cytogenetic assay) Species: Mouse Application Route: Ingestion Result: negative
	lethylenebis[3-hydr yl-2-[2-(2-thienyl)vir	oxy-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1 yl]pyrimidine (1:1):
Geno	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Prazi	quantel:	
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		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.	
	toxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	nogenicity lassified based on av	ailable information.
Comp	oonents:	
Cellu	lose:	
Speci		: Rat
	cation Route sure time	: Ingestion : 72 weeks
Resul		: negative



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Feba	ntel:			
Speci	es		Mouse	
	cation Route	:	Ingestion	
	sure time	:	21 Months	
Resul		:	negative	
1000		•	nogativo	
Prazi	quantel:			
Speci		:	Hamster	
Applic	cation Route	:	Oral	
Expos	sure time	:	80 weeks	
NÓAE		:	100 mg/kg body	weight
Resul	lt	:	negative	5
Rema		:	•	verse effects were reported
Speci	es	:	Rat	
	cation Route		Oral	
	sure time		104 weeks	
NOAE		:	250 mg/kg body	weight
Resul		:	negative	weight
Rema		:		verse effects were reported
Repro	oductive toxicity lassified based on availa	ble	-	
Repro Not cl <u>Com</u> r Cellu	oductive toxicity lassified based on availa ponents: lose:	ble	information.	
Repro Not cl <u>Com</u> r Cellu	oductive toxicity lassified based on availa ponents:	ıble :	information. Test Type: One- Species: Rat Application Rou	generation reproduction toxicity st
Repro Not cl <u>Comp</u> Cellu Effect	oductive toxicity lassified based on availa <u>ponents:</u> lose: ts on fertility	ble :	information. Test Type: One- Species: Rat Application Rou Result: negative	generation reproduction toxicity strate: Ingestion
Repro Not cl <u>Comp</u> Cellu Effect	oductive toxicity lassified based on availa ponents: lose:	ble	information. Test Type: One- Species: Rat Application Rou Result: negative Test Type: Ferti	generation reproduction toxicity strate: Ingestion
Repro Not cl <u>Comp</u> Cellu Effect	oductive toxicity lassified based on availa <u>ponents:</u> lose: ts on fertility	ble	information. Test Type: One- Species: Rat Application Rou Result: negative Test Type: Ferti Species: Rat	generation reproduction toxicity state: Ingestion
Repro Not cl <u>Comp</u> Cellu Effect	oductive toxicity lassified based on availa <u>ponents:</u> lose: ts on fertility	ble :	information. Test Type: One- Species: Rat Application Rou Result: negative Test Type: Ferti	generation reproduction toxicity st te: Ingestion lity/early embryonic development te: Ingestion
Repro Not cl Comp Cellu Effect	oductive toxicity lassified based on availa ponents: lose: is on fertility	ble :	information. Test Type: One- Species: Rat Application Rour Result: negative Test Type: Ferti Species: Rat Application Rour	generation reproduction toxicity st te: Ingestion lity/early embryonic development te: Ingestion
Repro Not cl Comp Cellu Effect	oductive toxicity lassified based on availa <u>conents:</u> lose: is on fertility is on fetal development	ble :	information. Test Type: One- Species: Rat Application Rour Result: negative Test Type: Ferti Species: Rat Application Rour Result: negative	generation reproduction toxicity st te: Ingestion lity/early embryonic development te: Ingestion
Repro Not cl Comp Cellu Effect	oductive toxicity lassified based on availa ponents: lose: is on fertility	ible : :	information. Test Type: One- Species: Rat Application Rour Result: negative Test Type: Ferti Species: Rat Application Rour Result: negative Test Type: Two-	generation reproduction toxicity state: Ingestion lity/early embryonic development te: Ingestion
Repro Not cl Comp Cellu Effect	oductive toxicity lassified based on availa <u>conents:</u> lose: is on fertility is on fetal development	ble : :	information. Test Type: One- Species: Rat Application Rour Result: negative Test Type: Ferti Species: Rat Application Rour Result: negative Test Type: Two- Species: Rat	generation reproduction toxicity st te: Ingestion lity/early embryonic development te: Ingestion
Repro Not cl Comp Cellu Effect	oductive toxicity lassified based on availa <u>conents:</u> lose: is on fertility is on fetal development	ble : :	information. Test Type: One- Species: Rat Application Rour Result: negative Test Type: Ferti Species: Rat Application Rour Result: negative Test Type: Two- Species: Rat Application Rour	generation reproduction toxicity state: Ingestion lity/early embryonic development te: Ingestion
Repro Not cl Comp Cellu Effect	oductive toxicity lassified based on availa <u>conents:</u> lose: is on fertility is on fetal development	ble : :	information. Test Type: One- Species: Rat Application Rour Result: negative Test Type: Ferti Species: Rat Application Rour Result: negative Test Type: Two- Species: Rat Application Rour Method: OECD	generation reproduction toxicity st te: Ingestion lity/early embryonic development te: Ingestion generation reproduction toxicity st te: Ingestion Test Guideline 416
Repro Not cl Comp Cellu Effect	oductive toxicity lassified based on availa <u>conents:</u> lose: is on fertility is on fetal development	ible : :	information. Test Type: One- Species: Rat Application Rour Result: negative Test Type: Ferti Species: Rat Application Rour Result: negative Test Type: Two- Species: Rat Application Rour	generation reproduction toxicity st te: Ingestion lity/early embryonic development te: Ingestion generation reproduction toxicity st te: Ingestion Test Guideline 416
Repro Not cl Comp Cellu Effect Effect	oductive toxicity lassified based on availa ponents: lose: is on fertility is on fetal development ntel: is on fertility	ble : :	information. Test Type: One- Species: Rat Application Rour Result: negative Test Type: Ferti Species: Rat Application Rour Result: negative Test Type: Two- Species: Rat Application Rour Method: OECD Result: negative	generation reproduction toxicity state: Ingestion lity/early embryonic development te: Ingestion generation reproduction toxicity state: Ingestion Test Guideline 416
Repro Not cl Comp Cellu Effect Effect	oductive toxicity lassified based on availa <u>conents:</u> lose: is on fertility is on fetal development	ble : :	information. Test Type: One- Species: Rat Application Rour Result: negative Test Type: Ferti Species: Rat Application Rour Result: negative Test Type: Two- Species: Rat Application Rour Method: OECD Result: negative Test Type: Two-	generation reproduction toxicity state: Ingestion lity/early embryonic development te: Ingestion generation reproduction toxicity state: Ingestion Test Guideline 416
Repro Not cl Comp Cellu Effect Effect	oductive toxicity lassified based on availa ponents: lose: is on fertility is on fetal development ntel: is on fertility	ble : :	information. Test Type: One- Species: Rat Application Rour Result: negative Test Type: Ferti Species: Rat Application Rour Result: negative Test Type: Two- Species: Rat Application Rour Method: OECD Result: negative Test Type: Two- Species: Rat	generation reproduction toxicity state: Ingestion lity/early embryonic development te: Ingestion generation reproduction toxicity state: Ingestion Test Guideline 416
Repro Not cl Comp Cellu Effect Effect	oductive toxicity lassified based on availa ponents: lose: is on fertility is on fetal development ntel: is on fertility	ble : :	information. Test Type: One- Species: Rat Application Rour Result: negative Test Type: Ferti Species: Rat Application Rour Result: negative Test Type: Two- Species: Rat Application Rour Method: OECD Result: negative Test Type: Two- Species: Rat Application Rour	generation reproduction toxicity state: Ingestion lity/early embryonic development te: Ingestion generation reproduction toxicity state: Ingestion Test Guideline 416 generation reproduction toxicity state: Ingestion
Repro Not cl Comp Cellu Effect Effect	oductive toxicity lassified based on availa ponents: lose: is on fertility is on fetal development ntel: is on fertility	ible : :	information. Test Type: One- Species: Rat Application Rour Result: negative Test Type: Ferti Species: Rat Application Rour Result: negative Test Type: Two- Species: Rat Application Rour Method: OECD Result: negative Test Type: Two- Species: Rat Application Rour	generation reproduction toxicity state: Ingestion lity/early embryonic development te: Ingestion generation reproduction toxicity state: Ingestion Test Guideline 416



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		thylenebis[3-hydrox -2-[2-(2-thienyl)vinyl]	ompound with (E)-1,4,5,6-tetrahydro-1-		
	-	on fetal development	:	Test Type: Embry Species: Rat Application Route Developmental To Result: No effects development were	oxicity: NOAEL: 3,000 mg/kg body weight on fertility and early embryonic e detected.
				Species: Rabbit Application Route Developmental To	oxicity: NOAEL: 1,000 mg/kg body weight on fertility and early embryonic
	-	uantel:			
E	ffects	on fertility	:	Test Type: Fertilit Species: Rat Remarks: No sign	y ificant adverse effects were reported
				Test Type: Fertilit Species: Mouse Remarks: No sign	y ificant adverse effects were reported
E	ffects	on fetal development	:	Test Type: Develo Species: Rat Remarks: No sign	opment ificant adverse effects were reported
				Test Type: Develo Species: Mouse Remarks: No sign	opment ificant adverse effects were reported

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-1methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):



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	EL ication Route osure time	 10 mg/kg 30 mg/kg Ingestion 3 d No significant adverse effects were reported
	EL ication Route osure time	 Dog 600 mg/kg Oral 19 d No significant adverse effects were reported
	EL ication Route osure time	 Dog 600 mg/kg Oral 30 d No significant adverse effects were reported
	EL ication Route osure time	 Dog 600 mg/kg Oral 90 d No significant adverse effects were reported
Spec NOA Appl Rem	EL ication Route arks	 Rat 1,000 mg/kg Oral No significant adverse effects were reported
	EL EL ication Route et Organs	 Dog 60 mg/kg 180 mg/kg Oral Gastrointestinal tract No significant adverse effects were reported
	cies EL ication Route osure time	 Rat >= 2,000 mg/kg Skin contact 28 Days OECD Test Guideline 410

Aspiration toxicity

Not classified based on available information.



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Expe	Experience with human exposure								
<u>Comp</u>	oonents:								
	lethylenebis[3-hydroxy yl-2-[2-(2-thienyl)vinyl]	y-2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1-							
Ingest	tion	:	: Symptoms: Abdominal pain, Nausea, Vomiting, Diarrho Headache, Dizziness, Fever						
Prazi	quantel:								
Inhala	ation	:		adache, Tiredness, Dizziness, Gastrointestin crease body temperature, Allergic reactions					
CTION	12. ECOLOGICAL INFO	ORN	MATION						
Ecoto	oxicity								
Comp	oonents:								
Cellu	lose:								
Toxici	ty to fish	:	Exposure time:	latipes (Japanese medaka)): > 100 mg/l 48 h ed on data from similar materials					
Febai	ntel:								
Toxici	ty to fish	:	LC50 (Danio re Exposure time:	erio (zebra fish)): > 100 mg/l 96 h					
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time:	a magna (Water flea)): 0.2 mg/l 48 h					
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time:	desmus subspicatus (green algae)): > 0.43 72 h 9 Test Guideline 201					
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: Method: OECD	a magna (Water flea)): > 0.001 - 0.01 mg/l 21 d 9 Test Guideline 211 ed on data from similar materials					
	lethylenebis[3-hydrox) yl-2-[2-(2-thienyl)vinyl]			l, compound with (E)-1,4,5,6-tetrahydro-1-					
Ecoto	oxicology Assessment								
	aquatic toxicity	:	Toxic effects ca	annot be excluded					
Chror	nic aquatic toxicity	:	Toxic effects ca	annot be excluded					
	guantel:								

Exposure time: 96 hrs

: LC50 (Carassius auratus (goldfish)): 29.2 mg/l



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			Method: OECD	Test Guideline 203
			Exposure time:	rio (zebra fish)): 31.6 mg/l 96 hrs Test Guideline 203
	ity to daphnia and other ic invertebrates	:	Exposure time:	magna (Water flea)): 35 mg/l 48 h Test Guideline 202
Toxic	ity to microorganisms	:	Exposure time: Test Type: Resp	l sludge): > 1,000 mg/l 3 h piration inhibition of activated sludge Test Guideline 209
Persi	stence and degradabili	ty		
<u>Com</u>	oonents:			
Cellu	lose:			
Biode	gradability	:	Result: Readily	biodegradable.
Bioad	cumulative potential			
Com	oonents:			
Feba	ntel:			
	ion coefficient: n- ol/water	:	log Pow: 1.95 Remarks: Calcu	lation
Prazi	quantel:			
	ion coefficient: n- ol/water	:	log Pow: 2.012 pH: 7	
	lity in soil			
	ata available			
	r adverse effects 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.



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SECTION 14. TRANSPORT INFORMATION

International Regulations

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

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

Not applicable for product as supplied.

Domestic regulation

NOM-002-SCT		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Febantel)
Class	:	9
Packing group	:	III
Labels	:	9

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



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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

Federal Law for the control of chemical precursors, : Not applicable essential chemical products and machinery for producing capsules, tablets and pills.

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

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

SECTION 16. OTHER INFORMATION

Revision Date Date format	:	30.09.2023 dd.mm.yyyy
Full text of other abbreviation	าร	
		USA. ACGIH Threshold Limit Values (TLV) Mexico. Norm NOM-010-STPS-2014 on Chemicals Polluting the Work Environment - Identification, Assessment and Con- trol - Appendix 1 Occupational Exposure Limits
		8-hour, time-weighted average Time weighted average limit value

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



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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

Sources of key data used to	:
compile the Material Safety	
Data Sheet	

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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