

Febantel / Pyrantel Pamoate / Praziquantel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
4.1	09/30/2023	3771255-00015	Date of first issue: 11/19/2018

SECTION 1. IDENTIFICATION

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

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

GHS label elements

Signal Word	:	Warning
Hazard Statements	:	If small particles are generated during further processing, han- dling or by other means, may form combustible dust concentra- tions in air.

Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	Mixture
	 IVII/(UIC

Components

Chemical name	CAS-No.	Concentration (% w/w)
Cellulose	9004-34-6	22.73
Febantel	58306-30-2	22.73
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	21.82
Praziquantel	55268-74-1	7.58
Starch	9005-25-8	6.41



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Version 4.1	Revision Date: 09/30/2023	SDS Num 3771255-		Date of last issue: 04/04/2023 Date of first issue: 11/19/2018	
SECTION	N 4. FIRST AID MEASU	RES			
General advice		advice When	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.		
lf inh	naled		If inhaled, remove to fresh air. Get medical attention if symptoms occur.		
In ca	ase of skin contact	: Wash	with water		
In case of eye contact		: If in ey	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.		
If swallowed		: If swa Get m	llowed, DO edical atter	NOT induce vomiting. ition if symptoms occur. oughly with water.	
Most important symptoms and effects, both acute and delayed Protection of first-aiders		: Conta the sk Dust c : First A and us	Contact with dust can cause mechanical irritation or drying the skin. Dust contact with the eyes can lead to mechanical irritation First Aid responders should pay attention to self-protection and use the recommended personal protective equipment		
Notes to physician				al for exposure exists (see section 8). cally 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



Vers 4.1	sion	Revision Date: 09/30/2023		S Number: 71255-00015	Date of last issue: 04/04/2023 Date of first issue: 11/19/2018
Personal precautions, protec- tive equipment and emer- gency procedures		:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).		
	Environ	mental precautions	:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. hould be advised if significant spillages
		s and materials for ment 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 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.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

according to the OSHA Hazard Communication Standard



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
4.1	09/30/2023	3771255-00015	Date of first issue: 11/19/2018

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	15 mg/m³ Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	5 mg/m³ Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
	15 Million particles per cubic foot Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
Dust, nuisance dust and par- ticulates	10 mg/m³ Value type (Form of exposure): PEL (Total dust) Basis: CAL PEL
	5 mg/m³

5 mg/m³ Value type (Form of exposure): PEL (respirable dust fraction) Basis: CAL PEL

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Cellulose	9004-34-6	TWA	10 mg/m ³	ACGIH
		TWA (Res- pirable)	5 mg/m³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m³	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m³	OSHA Z-1
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/m ³	ACGIH
		TWA (Res- pirable)	5 mg/m³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m³	OSHA Z-1



Version 4.1	Revision Date: 09/30/2023		Number: 1255-00015		t issue: 04/04/2023 t issue: 11/19/2018	
				WA (respir- ble fraction)	5 mg/m³	OSHA Z-1
En	gineering measures	0 	design and opera protect products, Containment tech are required to c	ated in accord workers, and hnologies sui ontrol at sour uncontrolled ices).	d be implemented by dance with GMP prin d the environment. table for controlling of ce and to prevent m areas (e.g., open-fa	compounds igration of
Pe	rsonal protective equipm	nent				
Re	spiratory protection	r (naintain vapor e concentrations a unknown, approp Follow OSHA res use NIOSH/MSH by air purifying re bazardous chem supplied respirat elease, exposur	xposures belo re above reco priate respirat spirator regula A approved r espirators aga ical is limited or if there is a e levels are u ere air purifyi	ntilation is recommen ow recommended lin ommended limits or ory protection shoul ations (29 CFR 1910 respirators. Protection ainst exposure to any . Use a positive prese any potential for uncount unknown, or any othe ing respirators may r	nits. Where are d be worn. 0.134) and on provided y sure air ontrolled er
Ha	nd protection					
	Material	: (Chemical-resista	nt gloves		
Ey	Remarks e protection	: \ 	f the work environ nists or aerosols Wear a faceshiel	ses with side onment or act s, wear the ap d or other full	shields or goggles. ivity involves dusty oppropriate goggles. I face protection if th he face with dusts, r	ere is a
Sk	in and body protection	: V t	Work uniform or Additional body g ask being perfor disposable suits)	garments sho med (e.g., sle to avoid exp degowning te	at. uld be used based u eevelets, apron, gau osed skin surfaces. echniques to remove	ntlets,
Hy	giene measures	: 	f exposure to ch eye flushing syst working place. When using do n Wash contamina The effective ope engineering cont appropriate dego	emical is likel ems and safe ot eat, drink of ted clothing b eration of a fa rols, proper p owning and de e monitoring,	before re-use. Icility should include bersonal protective e econtamination proc medical surveillance	the review of quipment, edures,



Vers 4.1	sion	Revision Date: 09/30/2023		S Number: 1255-00015	Date of last issue: 04/04/2023 Date of first issue: 11/19/2018
SEC		. PHYSICAL AND CH	ΞΜΙΟ		3
	Appea	rance	:	powder	
	Color		:	yellow	
	Odor		:	No data available	
	Odor T	hreshold	:	No data available	
	рН		:	No data available	
	Melting	g point/freezing point	:	No data available	
	Initial b range	ooiling point and boiling	:	No data available	
	Flash p	point	:	Not applicable	
	Evapoi	ration 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	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapor	pressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relativ	e density	:	No data available)
	Density	y	:	No data available)
	Solubil Wa	ity(ies) ter solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octano Autoigi	i/water nition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscos Visc	ity cosity, kinematic	:	Not applicable	



Version 4.1	Revision Date: 09/30/2023	SDS Number: 3771255-00015	Date of last issue: 04/04/2023 Date of first issue: 11/19/2018		
Explo	sive properties	: Not explosive	9		
Oxidizing properties		: The substand	ce or mixture is not classified as oxidizing.		
Molecular weight		: No data avai	: No data available		
Partic	le size	: No data avai	lable		

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 processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products		No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	Acute toxicity estimate: 4,708 mg/kg Method: Calculation method
Components:		
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
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg



sion	Revision Date: 09/30/2023	SDS Number: 3771255-000	
Febar	ntel:		
Acute	oral toxicity	: LD50 (Ral	obit): 1,250 mg/kg
Acute	dermal toxicity	: LD50 (Ral	obit): > 2,000 mg/kg
	lethylenebis[3-hydr yl-2-[2-(2-thienyl)vin		acid, compound with (E)-1,4,5,6-tetrahydro-1- 1):
Acute	oral toxicity	: LD50 (Rat): > 24,000 mg/kg
		LD50 (Mo	use): > 24,000 mg/kg
		LD50 (Dog	g): 2,000 mg/kg
Prazio	quantel:		
Acute	oral toxicity	: LD50 (Rat): 2,480 mg/kg
		LD50 (Mo	use): 2,454 mg/kg
		LD50 (Dog	g): > 200 mg/kg
		LD50 (Ral	obit): 1,050 mg/kg
Starc	h:		
Acute	oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute	dermal toxicity	: LD50 (Ral	bbit): > 2,000 mg/kg
Skin o	corrosion/irritation		
Not cl	assified based on av	ailable information	
Comp	oonents:		
Febar	ntel:		
Speci Resul		: Rabbit : No skin irr	itation
ILC SUI	ι	. INU SKIIT IIT	
Prazio	quantel:		
Speci		: Rabbit	
Metho Rema		: Draize Tes : slight irrita	
Nema		. Sign inta	
	us eye damage/eye		
Not cl	assified based on av	ailable information	
Comp	oonents:		
Febar	ntel:		
Speci	~~	: Rabbit	

according to the OSHA Hazard Communication Standard



1	Revision Date: 09/30/2023		ate of last issue: 04/04/2023 ate of first issue: 11/19/2018
Result		: No eye irritation	
Praziq	uantel:		
Specie		: Rabbit	
Result		: Mild eye irritation	
Method	3	: Draize Test	
Starch	:		
Specie	S	: Rabbit	
Result		: No eye irritation	
Respir	atory or skin sens	tization	
	ensitization		
Not cla	ssified based on av	ilable information.	
Respir	atory sensitization		
Not cla	ssified based on av	ilable information.	
<u>Compo</u>	onents:		
Praziq	uantel:		
Test Ty		: Maximization Test	
	of exposure	: Dermal	
Specie Result	5	: Guinea pig : Not a skin sensitizer.	
Starch			
Test Ty		: Maximization Test	
	of exposure	: Skin contact	
Specie		: Guinea pig	
Result		: negative	
Germ	cell mutagenicity		
Not cla	ssified based on av	ilable information.	
<u>Compo</u>	onents:		
Cellulo	ose:		
Genoto	oxicity in vitro	: Test Type: Bacterial Result: negative	reverse mutation assay (AMES)
		Test Type: In vitro m Result: negative	ammalian cell gene mutation test
Genoto	oxicity in vivo	cytogenetic assay) Species: Mouse	an erythrocyte micronucleus test (in v
		Application Route: In Result: negative	gestion



Versi 4.1	ion	Revision Date: 09/30/2023	-	S Number: 71255-00015	Date of last issue: 04/04/2023 Date of first issue: 11/19/2018		
	Febant	el:					
	Genoto	xicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES)		
				Test Type: DNA damage and repair, unscheduled DNA s thesis in mammalian cells (in vitro) Result: negative			
	Genoto	xicity in vivo	:	Test Type: Man cytogenetic ass Species: Mouse Application Rou Result: negative	e ite: Ingestion		
		thylenebis[3-hydro -2-[2-(2-thienyl)vin			, compound with (E)-1,4,5,6-tetrahydro-1-		
	Genoto	xicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES) e		
	Praziqu	uantel:					
	-	xicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES)		
					omosomal aberration hinese hamster cells e		
	Genoto	xicity in vivo	:	Test Type: Micr Species: Rat Result: negative			
	Starch						
		xicity in vitro	:	Test Type: Bac Result: negative	terial reverse mutation assay (AMES)		
		ogenicity ssified based on ava	ailable	information.			
		onents:					
	Cellulo						
	Species		:	Rat			
	Applica	tion Route	:	Ingestion			
	Exposu Result	ire time	:	72 weeks negative			

according to the OSHA Hazard Communication Standard



Version 4.1	Revision Date: 09/30/2023	SDS Number:Date of last issue: 04/04/203771255-00015Date of first issue: 11/19/20	
	es ation Route ure time	 Mouse Ingestion 21 Months negative 	
Specie Applic Expos NOAE Result Result Rema Specie Applic	ation Route ure time L rks es ation Route ure time L	 Hamster Oral 80 weeks 100 mg/kg body weight negative No significant adverse effects were reported Rat Oral 104 weeks 250 mg/kg body weight negative No significant adverse effects were reported 	
IARC	No ingredient	of this product present at levels greater than or equirobable, possible or confirmed human carcinogen l	
OSHA		t of this product present at levels greater than or eq t of regulated carcinogens.	qual to 0.1% is
NTP		of this product present at levels greater than or equin known or anticipated carcinogen by NTP.	ual to 0.1% is
Not cla <u>Comp</u> Cellul	ductive toxicity assified based on availa <u>onents:</u> ose: s on fertility	: Test Type: One-generation reproduction toxici Species: Rat Application Route: Ingestion	ty study
Effects	s on fetal development	 Result: negative Test Type: Fertility/early embryonic developmed Species: Rat Application Route: Ingestion Result: negative 	ənt
Feba r Effects	t el: s on fertility	: Test Type: Two-generation reproduction toxici Species: Rat Application Route: Ingestion	ty study



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Vers 4.1	sion	Revision Date: 09/30/2023		9S Number: 71255-00015	Date of last issue: 04/04/2023 Date of first issue: 11/19/2018
				Method: OECD To Result: negative	est Guideline 416
	Effects	on fetal development	:	Test Type: Two-g Species: Rat Application Route Method: OECD To Result: negative	
		thylenebis[3-hydroxy -2-[2-(2-thienyl)vinyl]			ompound with (E)-1,4,5,6-tetrahydro-1-
	Effects	on fetal development	:	Species: Rat Application Route Developmental To	oxicity: NOAEL: 3,000 mg/kg body weight on fertility and early embryonic
				Species: Rabbit Application Route Developmental To	oxicity: NOAEL: 1,000 mg/kg body weight on fertility and early embryonic
	Praziqu	uantel:			
	Effects	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
	Effects	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.

according to the OSHA Hazard Communication Standard



Version 4.1	Revision Date: 09/30/2023	SDS Number: 3771255-00015	Date of last issue: 04/04/2023 Date of first issue: 11/19/2018
Rep	eated dose toxicity		
Com	ponents:		
Cellu	ulose:		
		: Rat : >= 9,000 mg/kg : Ingestion : 90 Days	
	Methylenebis[3-hydrox 1yl-2-[2-(2-thienyl)vinyl		compound with (E)-1,4,5,6-tetrahydro-1-
Spec NOA LOA Appl	cies EL EL ication Route osure time	: Dog : 10 mg/kg : 30 mg/kg : Ingestion : 3 d	verse effects were reported
	EL ication Route osure time	: Dog : 600 mg/kg : Oral : 19 d : No significant ad	verse effects were reported
	EL ication Route osure time	: Dog : 600 mg/kg : Oral : 30 d : No significant ad	verse effects were reported
	EL ication Route osure time	: Dog : 600 mg/kg : Oral : 90 d : No significant ad	verse effects were reported
Praz	iquantel:		
Spec NOA Appl Rem	EL ication Route	: Rat : 1,000 mg/kg : Oral : No significant ad	verse effects were reported
	EL EL ication Route et Organs	: Dog : 60 mg/kg : 180 mg/kg : Oral : Gastrointestinal t : No significant ad	tract verse effects were reported

according to the OSHA Hazard Communication Standard



Vers 4.1	sion	Revision Date: 09/30/2023		0S Number: 71255-00015	Date of last issue: 04/04/2023 Date of first issue: 11/19/2018	
		s L ation Route ure time	:	Rat >= 2,000 mg/kg Skin contact 28 Days OECD Test Guide	eline 410	
	Aspiration toxicity Not classified based on available information.					
	Experi	ence with human exp	osı	ire		
	Comp	onents:				
		ethylenebis[3-hydroxy I-2-[2-(2-thienyl)vinyl]			ompound with (E)-1,4,5,6-tetrahydro-1-	
	Ingesti	on	:	Symptoms: Abdo Headache, Dizzin	minal pain, Nausea, Vomiting, Diarrhea, ess, Fever	
	Praziq	uantel:				
	Inhalat	ion	:		ache, Tiredness, Dizziness, Gastrointestinal ase body temperature, Allergic reactions	
SEC	Ecoto	2. ECOLOGICAL INF	JRI	<i>I</i> ATION		
	<u>Comp</u>	onents:				
	Cellulo	ose:				
	Toxicit	y to fish	:	Exposure time: 48	ipes (Japanese medaka)): > 100 mg/l 3 h on data from similar materials	
	Feban	tel:				
		y to fish	:	LC50 (Danio reric Exposure time: 96	o (zebra fish)): > 100 mg/l S h	
		y to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.2 mg/l 3 h	
	Toxicit plants	y to algae/aquatic	:	ErC50 (Desmode mg/l Exposure time: 72 Method: OECD T		
		y to daphnia and other c invertebrates (Chron- ity)	:	Exposure time: 2 Method: OECD T		



Vers 4.1	sion	Revision Date: 09/30/2023		S Number: 71255-00015	Date of last issue: 04/04/2023 Date of first issue: 11/19/2018
4,4'-Methylenebis[3-hydroxy-2-naphthoic] acid, compound with (E)-1 methyl-2-[2-(2-thienyl)vinyl]pyrimidine (1:1):			ompound with (E)-1,4,5,6-tetrahydro-1-		
	Ecotox	icology Assessment			
	Acute a	quatic toxicity	:	Toxic effects cann	not be excluded
	Chronic	aquatic toxicity	:	Toxic effects cannot be excluded	
	Praziqu	uantel:			
	Toxicity	to fish	:	LC50 (Carassius Exposure time: 96 Method: OECD To	
				LC50 (Danio rerio Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity to microorganisms : EC50 (activated sludge): > 1,00 Exposure time: 3 h Test Type: Respiration inhibitio Method: OECD Test Guideline		h ation inhibition of activated sludge		
	Persist	ence and degradabili	ty		
	Compo	nents:			
	Cellulo Biodegi	se: adability	:	Result: Readily bi	odegradable.
	Bioacc	umulative potential			
	Compo	nents:			
	Febant Partition octanol	n coefficient: n-	:	log Pow: 1.95 Remarks: Calcula	tion
	Praziqu			L . D. 0.040	
	octanol	n coefficient: n- /water	:	log Pow: 2.012 pH: 7	
	Mobilit	y in soil			
		a available			
		idverse effects a available			

according to the OSHA Hazard Communication Standard



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
4.1	09/30/2023	3771255-00015	Date of first issue: 11/19/2018

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Dispose of in accordance with local regulations.
		Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations		
UNRTDG UN number Proper shipping name	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	
Class Packing group Labels Environmentally hazardous	(Febantel) 9 III 9 9 yes	
IATA-DGR UN/ID No. Proper shipping name	 UN 3077 Environmentally hazardous substance, solid, n.o.s. (Febantel) 	
Class Packing group Labels Packing instruction (cargo	9 III Miscellaneous 956	
aircraft) Packing instruction (passen- ger aircraft) Environmentally hazardous	956 yes	
IMDG-Code UN number Proper shipping name	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Febantel)	
Class Packing group Labels EmS Code Marine pollutant	(Febanter) 9 111 9 F-A, S-F yes	

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

according to the OSHA Hazard Communication Standard



Febantel / Pyrantel Pamoate / Praziquantel Formulation

Version 4.1	Revision Date: 09/30/2023	SDS Number: 3771255-00015	Date of last issue: 04/04/2023 Date of first issue: 11/19/2018
Prope Class Packi Label ERG	ng group s Code e pollutant	(Febantel) : 9 : III : CLASS 9 : 171 : yes(Febantel) : Above applies liters. Shipment by g may be shipped	Ily hazardous substance, solid, n.o.s. only to containers over 119 gallons or 450 ground under DOT is non-regulated; however it ed per the applicable hazard classification to modal transport involving ICAO (IATA) or IMO.

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	Combustible dust
----------------------	------------------

SARA 313	:	This material does not contain any chemical components with
		known CAS numbers that exceed the threshold (De Minimis)
		reporting levels established by SARA Title III, Section 313.

US State Regulations

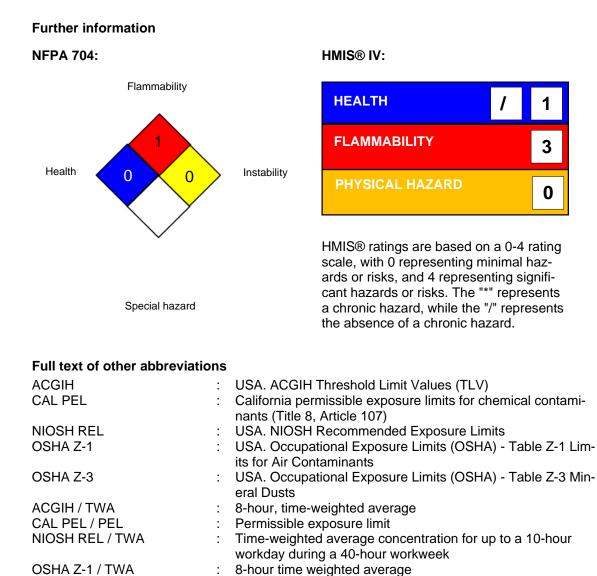
Pennsylvania Right To Know

Cellulose Febantel 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)	9004-34-6 58306-30-2 22204-24-6
D-Glucose, 4-O-β-D-galactopyranosyl-, monohydrate Praziquantel Starch	64044-51-5 55268-74-1 9005-25-8
California List of Hazardous Substances	
Polyvinyl pyrrolidone	9003-39-8



Version 4.1	Revision Date: 09/30/2023	SDS Number: 3771255-00015	Date of last issue: 04/04/2023 Date of first issue: 11/19/2018
Califo	ornia Permissible Ex	posure Limits for C	hemical Contaminants
	Cellulose Starch		9004-34-6 9005-25-8
The i	ngredients of this pr	oduct are reported	in the following inventories:
AICS		: not determine	ed
DSL		: not determine	ed
IECS	C	: not determine	ed

SECTION 16. OTHER INFORMATION



:

8-hour time weighted average



Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
4.1	09/30/2023	3771255-00015	Date of first issue: 11/19/2018

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance: 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration. Evaluation. Authorisation and Restriction of Chemicals: RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

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 Agen- cy, http://echa.europa.eu/

Revision Date : 09/30/2023

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.

US / Z8