

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
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## **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Febantel / Pyrantel Pamoate / Praziquantel Formulation		
Manufacturer or supplier's de Company	eta :	ils MSD		
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331		
Telephone	:	+1-908-740-4000		
Emergency telephone number	:	86-571-87268110		
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

### **Emergency Overview**

Appearance	: powder		
Colour	: yellow		
Odour	: No data available		
May be harmful if swallowed. Toxic to aquatic life. Very toxic to aquatic life with long lasting effects.			

Acute toxicity (Oral)	:	Category 5
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 1

## **GHS** label elements

according to GB/T 16483 and GB/T 17519



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Hazar	d pictograms		
Signa	l word	: Warning	
Hazard statements		H401 Toxic t	e harmful if swallowed. to aquatic life. oxic to aquatic life with long lasting effects.
Precautionary statements		Prevention: P273 Avoid	release to the environment.
		<b>Response:</b> P312 Call a P391 Collect	POISON CENTER/ doctor if you feel unwell. t spillage.
		<b>Disposal:</b> P501 Dispos disposal plar	se of contents/ container to an approved waste
Physi	ical and chemical ha		

Not classified based on available information.

## Health hazards

May be harmful if swallowed.

### Environmental hazards

Toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

### 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)
Cellulose	9004-34-6	>= 20 -< 30
Febantel	58306-30-2	>= 20 -< 25
4,4'-methylenebis[3-hydroxy-2-naphthoic] acid,	22204-24-6	>= 20 -< 30
compound with (E)-1,4,5,6-tetrahydro-1-methyl-		



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2-[2-(2-thienyl)vinyl]pyrimidine (1:1)		
praziquantel	55268-74-1	>= 2.5 -< 10
Starch	9005-25-8	>= 1 -< 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.
Most important symptoms and effects, both acute and delayed	:	May be harmful if swallowed. Contact with dust can cause mechanical irritation or drying of the skin.
Protection of first-aiders	:	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 when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

## **5. FIREFIGHTING 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) Sulphur oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.



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	ecial protective equipment firefighters	:	Remove undamaç so. Evacuate area.	o cool unopened containers. ged containers from fire area if it is safe to do e, wear self-contained breathing apparatus. ective equipment.
6. ACC	DENTAL RELEASE MEAS	SUF	RES	
tive	rsonal precautions, protec- e equipment and emer- ncy procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
En	vironmental precautions	:	Retain and dispos	akage or spillage if safe to do so. e of contaminated wash water. should be advised if significant spillages
	thods and materials for ntainment and cleaning up	:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the atr Local or national r posal of this mate employed in the c mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces

## 7. HANDLING AND STORAGE

Handling		
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	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not breathe dust.
_		Do not swallow.
		Avoid contact with eyes.
		Avoid prolonged or repeated contact with skin.



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Avoi	dance of contact	:	practice, based o sessment Minimize dust ge Keep container c Keep away from Take precautiona	ance with good industrial hygiene and safety n the results of the workplace exposure as- neration and accumulation. losed when not in use. heat and sources of ignition. ary measures against static discharges. rent spills, waste and minimize release to the
Stor	age			
Con	ditions for safe storage	:		labelled containers. nce with the particular national regulations.
Mate	Materials to avoid : Do not store with the followin Strong oxidizing agents		the following product types:	
Pack	kaging material	:	Unsuitable mater	ial: None known.

## 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	PC-TWA	10 mg/m3	CN OEL
		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 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 equipment

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

## SAFETY DATA SHEET according to GB/T 16483 and GB/T 17519



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Filter type Eye/face protection		: W If t Mi W pc	<ul> <li>Particulates type</li> <li>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.</li> </ul>			
Skin and body protection		Ac ta: pc Us	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentia contaminated clothing.			
Hand	protection					
Material		: Cł	nemical-resistan	it gloves		
Remarks Hygiene measures		: If e ey ing W W Th en ap	e flushing syste g place. hen using do no ash contaminate e effective oper gineering contro propriate degov	mical is likely during typical use, provide oms and safety showers close to the work- ot eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	yellow
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable



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	Flamma	ability (solid, gas)	:	May form explosi dling or other me	ve dust-air mixture during processing, han- ans.
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	)
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	No data available	)
	Density	,	:	No data available	)
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partitio octanol	n coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	)
	Decom	position temperature	:	No data available	)
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle Particle	e characteristics e size	:	No data available	

## **10. STABILITY AND REACTIVITY**

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	May form explosive dust-air mixture during processing, han-
tions		dling or other means.
		Can react with strong oxidizing agents.



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Incom	itions to avoid npatible materials rdous decomposition	:	Heat, flames a Avoid dust forn Oxidizing agen No hazardous	nation.
produ	icts			
1. TOXIC	OLOGICAL INFORMA	TIOI	N	
Expos	sure routes	:	Inhalation Skin contact Ingestion Eye contact	
	e toxicity be harmful if swallowed.			
Produ				
-	oral toxicity	:	Acute toxicity es Method: Calcula	stimate: 4,708 mg/kg ation method
<u>Comp</u>	oonents:			
Cellu	lose:			
Acute	oral toxicity	:	LD50 (Rat): > 5	,000 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 5 Exposure time: Test atmospher	4 h
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
Febai	ntel:			
Acute	oral toxicity	:	LD50 (Rabbit):	1,250 mg/kg
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg
•			• •	, compound with (E)-1,4,5,6-tetrahydro-1-
	yI-2-[2-(2-thienyl)vinyl oral toxicity	]pyri :		4 000 ma/ka
Acute		•		
			LD50 (Mouse):	> 24,000 mg/kg
			LD50 (Dog): 2,0	000 mg/kg
prazio	quantel:			
Acute	oral toxicity	:	LD50 (Rat): 2,4	80 mg/kg

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		LD50 (D	log): > 200 mg/kg
			abbit): 1,050 mg/kg
II Store	<b>.</b>		
Stard Acute	e oral toxicity	: LD50 (R	at): > 5,000 mg/kg
Acute	e dermal toxicity	: LD50 (R	abbit): > 2,000 mg/kg
II Skin	corrosion/irritation		
Not c	lassified based on ava	ilable informatio	on.
<u>Com</u>	ponents:		
Feba			
Spec Resu		: Rabbit : No skin	irritation
prazi	quantel:		
Spec Meth		: Rabbit : Draize T	Tost
Rema		: slight irri	
	ous eye damage/eye i		
	lassified based on ava	ilable information	on.
<u>Com</u>	ponents:		
Feba		. Dobbit	
Spec Resu		: Rabbit : No eye i	rritation
prazi	quantel:		
Spec		: Rabbit	1. M. M
Resu Meth		: Mild eye : Draize T	e irritation Test
Stard	ch:		
Spec Resu	ies It	: Rabbit : No eye i	rritation
Resp	biratory or skin sensit	isation	
	sensitisation		
Not c	lassified based on ava	ilable information	on.



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## **Respiratory sensitisation**

Not classified based on available information.

## Components:

## praziquantel:

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

### Starch:

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

### Germ cell mutagenicity

Not classified based on available information.

### **Components:**

### Cellulose:

Bacterial reverse mutation assay (AMES) ative
In vitro mammalian cell gene mutation test ative
Mammalian erythrocyte micronucleus test (in vivo assay) ouse Route: Ingestion ative
Bacterial reverse mutation assay (AMES) ative
DNA damage and repair, unscheduled DNA syn- ammalian cells (in vitro) ative
Mammalian erythrocyte micronucleus test (in vivo assay) ouse Route: Ingestion ative



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## II

4,4'-methylenebis[3-hydroxy- methyl-2-[2-(2-thienyl)vinyl]p	2-naphthoic] acid, compound with (E)-1,4,5,6-tetrahydro-1- yrimidine (1:1):
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
praziquantel:	
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: Chromosomal aberration Test system: Chinese hamster cells Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Species: Rat Result: negative
II Storah	
Starch:	Test Type: Desterial reverse mutation appay (AMES)
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Carcinogenicity	
Not classified based on availab	le information.
Components:	
Cellulose:	
Species	: Rat
Application Route	: Ingestion
Exposure time Result	: 72 weeks : negative
Febantel:	
Species	Mouse
Application Route	: Ingestion
Exposure time Result	: 21 Months
Result	: negative
praziquantel:	
Species	Hamster
Application Route	: Oral
Exposure time NOAEL	: 80 weeks : 100 mg/kg body weight
Result	negative
Remarks	No significant adverse effects were reported

according to GB/T 16483 and GB/T 17519



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Species Application Route	:	Rat
Application Route	:	Oral
Exposure time	:	104 weeks
NÓAEL	:	250 mg/kg body weight
Result	:	negative
Exposure time NOAEL Result Remarks	:	No significant adverse effects were reported

## **Reproductive toxicity**

Not classified based on available information.

### **Components:**

Cellulose	:
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Effects on fertility	: Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Result: negative
Effects on foetal develop- ment	: Test Type: Fertility/early embryonic development Species: Rat Application Route: Ingestion Result: negative

### Febantel:

Effects on fertility	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 Result: negative
Effects on foetal develop- ment	:	Test Type: Two-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 416 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):

Effects on foetal develop- ment		Test Type: Embryo-foetal development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 3,000 mg/kg body weight Result: No effects on fertility and early embryonic develop- ment were detected.
		Test Type: Embryo-foetal development Species: Rabbit

according to GB/T 16483 and GB/T 17519



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			al Toxicity: NOAEL: 1,000 mg/kg body weight ects on fertility and early embryonic develop-
	<b>quantel:</b> ts on fertility	: Test Type: Fe Species: Rat Remarks: No Test Type: Fe Species: Mou	significant adverse effects were reported
Effec ment	ts on foetal develop-	Remarks: No : Test Type: De Species: Rat Remarks: No	significant adverse effects were reported 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 NOAEL Application Route Exposure time	:	Rat >= 9,000 mg/kg Ingestion 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):

Species NOAEL LOAEL	: Dog	
NOAEL	: 10 mg/	′kg
LOAEL	: 30 mg/	′kġ
Application Route	: Ingesti	on
Exposure time	: 3 d	
Application Route Exposure time Remarks	: No sig	nificant adverse effects were reported
Species	: Dog	

according to GB/T 16483 and GB/T 17519



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NOAE Applic Expos Rema	cation Route sure time	:	600 mg/kg Oral 19 d No significant ac	dverse effects were reported	
Species NOAEL Application Route Exposure time Remarks			Dog 600 mg/kg Oral 30 d No significant adverse effects were reported		
Species NOAEL Application Route Exposure time Remarks			Dog 600 mg/kg Oral 90 d No significant adverse effects were reported		
<b>praziquantel:</b> Species NOAEL Application Route Remarks		:	Rat 1,000 mg/kg Oral No significant ac	dverse effects were reported	
Species NOAEL LOAEL Application Route Target Organs Remarks			Dog 60 mg/kg 180 mg/kg Oral Gastrointestinal tract No significant adverse effects were reported		
	es EL cation Route sure time		Rat >= 2,000 mg/kg Skin contact 28 Days OECD Test Guid	deline 410	
Not cl	Aspiration toxicity Not classified based on available information. Experience with human exposure				

### **Components:**

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

:

Ingestion

Symptoms: Abdominal pain, Nausea, Vomiting, Diarrhoea, Headache, Dizziness, Fever



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prazio Inhala	quantel: Ition	:		idache, Tiredness, Dizziness, Gastrointestin rease body temperature, Allergic reactions
. ECOLO	OGICAL INFORMATION	N	,	
Ecoto	oxicity			
<u>Comp</u>	oonents:			
Cellu	lose:			
Toxici	ty to fish	:	Exposure time:	atipes (Japanese medaka)): > 100 mg/l 48 h d on data from similar materials
Febai	ntel:			
Toxici	ty to fish	:	LC50 (Danio re Exposure time:	rio (zebra fish)): > 100 mg/l 96 h
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): 0.2 mg/l 48 h
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time:	lesmus subspicatus (green algae)): > 0.43 72 h Test Guideline 201
M-Fac icity)	ctor (Acute aquatic tox-	:	1	
Toxici	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 Test Guideline 211 d on data from similar materials
M-Fac toxicit	ctor (Chronic aquatic y)	:	10	
	nethylenebis[3-hydroxy yl-2-[2-(2-thienyl)vinyl]			, compound with (E)-1,4,5,6-tetrahydro-1-
Ecoto	oxicology Assessment			
Acute	aquatic toxicity	:	Toxic effects ca	nnot be excluded
Chron	ic aquatic toxicity	:	Toxic effects ca	nnot be excluded

praziquantel:

Toxicity to fish	:	LC50 (Carassius auratus (goldfish)): 29.2 mg/l Exposure time: 96 hrs
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according to GB/T 16483 and GB/T 17519



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II				Method: OECD T	est Guideline 203
				LC50 (Danio rerio	o (zebra fish)): 31.6 mg/l
				Exposure time: 96 Method: OECD T	5 hrs
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 35 mg/l 3 h
	·			Method: OECD T	est Guideline 202
-	Toxicity	to microorganisms	:		sludge): > 1,000 mg/l
				Exposure time: 3 Test Type: Respire	h ration inhibition of activated sludge
				Method: OECD T	est Guideline 209
	Persist	tence and degradabili	tv		
		onents:			
-	Cellulo				
		radability	:	Result: Readily bi	odegradable.
II					
l	Bioacc	umulative potential			
-	Compo	onents:			
	Febant				
	octanol	n coefficient: n- /water	:	log Pow: 1.95 Remarks: Calcula	ation
	praziqu	uantel:			
	Partitio octanol	n coefficient: n- /water	:	log Pow: 2.012 pH: 7	
	Mobilit	y in soil			
l	No data	a available			
		adverse effects			
	No data	a available			
13. D	ISPOS	AL CONSIDERATION	IS		
I	Dispos	al methods			
	-	from residues	:		waste into sewer.
				Dispose of in acco	ordance with local regulations.



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If not otherwise specified: Dispose of as unused product.

## 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	:	
Labels	:	Miscellaneous
Packing instruction (cargo	:	956
aircraft)		
Packing instruction (passen-	:	956
ger aircraft)		
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.
		(Febantel)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
Transport in bulk according	to	Annox II of MAPPOL 73/79 and the IRC Code

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

Not applicable for product as supplied.

### **National Regulations**

<b>GB 6944/12268</b> UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class Packing group	:	(Febantel) 9 III



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Labels	:	9
Marine pollutant	:	no

### 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**

#### National regulatory information

#### Law on the Prevention and Control of Occupational Diseases

### **Regulations on Safety Management of Hazardous Chemicals**

Catalogue of Hazardous C	hemicals	:	This product is not listed in the cata- logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de- termination.
Identification of Major Haza 18218)	ard Installations for Hazardou	ıs C	hemicals (GB : Not listed
Hazardous Chemicals for F SAWS	Priority Management under	:	Not listed
Regulations on Labour P	rotection in Workplaces w	here	e Toxic Substances are Used
Regulations on Labour P Catalogue of Highly Toxic	Chemicals	:	Not listed
Regulation of Environme and Export of Toxic Cher		rst	Import of Chemicals and the Import
China Severely Restricted and Export	Toxic Chemicals for Import	:	Not listed
Regulation on the Admin	istration of Precursor Cher	mica	als
-	on of Precursor Chemicals		
Yangtze River Protection	Law		
This product does not cont	ain any dangerous chemical	s pro	phibited for inland river transport.
The components of this	product are reported in the	foll	owing inventories:
AICS	: not determined		
DSL	: not determined		



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### **16. OTHER INFORMATION**

Revision Date	:	2024/09/28		
Further information				
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/		
Items where changes have been made to the previous version are highlighted in the body of this				

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format	:	yyyy/mm/dd
Full text of other abbreviatio	ns	
ACGIH CN OEL	:	USA. ACGIH Threshold Limit Values (TLV) Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.
ACGIH / TWA CN OEL / PC-TWA		8-hour, time-weighted average Permissible concentration - 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 Sub-



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stances 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

## Disclaimer

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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