



Vers 5.2	sion	Revision Date: 06.04.2024		S Number: 1096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016	
SEC	TION 1 Produc	: IDENTIFICATION t name	÷	Fenbendazole (0	.5%) Solid Formulation	
	Manufa	acturer or supplier's d	letai	ls		
	Compa	ny	:	Intervet Australia	Pty Limited (trading as MSD Animal Health)	
	Address		:	91-105 Harpin Street Bendigo 3550, Victoria Austrailia		
	Teleph	one	:	1 800 033 461		
	Emergency telephone number		• :	Poisons Informat	ion Centre: Phone 13 11 26	
	E-mail	address	:	EHSDATASTEW	ARD@msd.com	
	Recommended use of the ch Recommended use Restrictions on use			ical and restrictic Veterinary produc Not applicable		

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Serious eye damage/eye irri- tation	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H318 Causes serious eye damage.
Precautionary statements		Prevention: P280 Wear eye protection/ face protection.
		Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Other hazards which do not result in classification

Contact with dust can cause mechanical irritation or drying of the skin.



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
5.2	06.04.2024	1161096-00018	Date of first issue: 19.12.2016

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical name	CAS-No.	Concentration (% w/w)
Calcium bis(dihydrogenorthophosphate) mono- hydrate	10031-30-8	>= 30 -< 60
Calcium carbonate	471-34-1	>= 10 -< 30
Langbeinite	14977-37-8	< 10
Paraffin oil	8012-95-1	>= 1 -< 10
fenbendazole	43210-67-9	< 3

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical
If inhaled	:	advice. If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Causes serious eye damage. Contact with dust can cause mechanical irritation or drying of the skin.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical
Unsuitable extinguishing media	:	None known.



Version 5.2	Revision Date: 06.04.2024		OS Number: 61096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016			
	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 potential dust explosion hazard. Exposure to combustion products may be a hazard to health				
Haza ucts	rdous combustion prod-	:	Oxides of phosphorus Metal oxides Carbon oxides Chlorine compounds				
Spec ods	Specific extinguishing meth- ods Special protective equipment for firefighters Hazchem Code		: Use extinguishing measures that are appropriate to loca cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe so.				
for fir			 Evacuate area. In the event of fire, wear self-contained breathing apparatus Use personal protective equipment. 2Z 				
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES				
tive e	onal precautions, protec- quipment and emer- y procedures	:	Follow safe hand	ptective equipment. Iling advice (see section 7) and personal pro- It recommendations (see section 8).			
Envir	Environmental precautions		Retain and dispo	eakage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages			
	ods and materials for inment and cleaning up	:	tainer for disposa Avoid dispersal of with compressed Dust deposits shi es, as these may leased into the at Local or national posal of this mate employed in the of mine which regul	of dust in the air (i.e., clearing dust surfaces			

Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

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



Version 5.2	Revision Date: 06.04.2024	SDS Number: 1161096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016					
	l/Total ventilation se on safe handling	 Use only with a Do not breathed Do not swallow Do not get in e Avoid prolonge Handle in accord practice, based sessment 	 Do not breathe dust. Do not swallow. Do not get in 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 as- 					
Hygie	ene measures	Minimize dust Keep containe Keep away fro Take precautio Take care to p environment. : If exposure to	r tightly closed. generation and accumulation. r closed when not in use. m heat and sources of ignition. onary measures against static discharges. revent spills, waste and minimize release to the chemical is likely during typical use, provide eye ns and safety showers close to the working					
		When using do Wash contami The effective c engineering co appropriate de industrial hygie	o not eat, drink or smoke. nated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, gowning and decontamination procedures, ene monitoring, medical surveillance and the trative controls.					
	litions for safe storage rials to avoid	: Keep in proper Keep tightly clo Store in accord : Do not store w	rly labelled containers. osed. dance with the particular national regulations. ith the following product types:					
		Strong oxidizir	ng agents					

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Calcium carbonate	471-34-1	TWA	10 mg/m3 (Calcium car- bonate)	AU OEL
Paraffin oil	8012-95-1	TWA (Mist)	5 mg/m3	AU OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
fenbendazole	43210-67-9	TWA	100 µg/m3 (OEB 2)	Internal

Components with workplace control parameters

Engineering measures

: Use feasible engineering controls to minimize exposure to compound.



ersion .2	Revision Date: 06.04.2024		S Number: 61096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016		
			design and opera	ontrols should be implemented by facility ted in accordance with GMP principles to workers, and the environment.		
Perso	onal protective equipme	ent				
Respi	ratory protection	:	sure assessment	exhaust ventilation is not available or expo- demonstrates exposures outside the rec- lines, use respiratory protection.		
	ter type	:	Combined particu	llates and organic vapour type		
	protection aterial	:	Chemical-resistar	nt gloves		
Eye p	rotection	:	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 a	and body protection	:	Work uniform or la	aboratory coat.		
ECTION	9. PHYSICAL AND CH	EMI		S		
Appea	arance	:	powder			
Colou	r	:	No data available	e		
Odou	r	:	No data available	e		
Odou	r Threshold	:	No data available	e		
рН		:	No data available	e		
Meltin	g point/freezing point	:	No data available	e		
Initial range	boiling point and boiling	:	No data available	e		
Flash	point	:	Not applicable			
Evapo	oration rate	:	No data available	e		
Flamr	Flammability (solid, gas)		May form explos dling or other me	ive dust-air mixture during processing, han- eans.		
Flamr	nability (liquids)	:	No data available	e		
	r explosion limit / Upper nability limit	:	No data available	9		
	r explosion limit / Lower nability limit	:	No data available	9		



Versio 5.2	on	Revision Date: 06.04.2024		S Number: 61096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016				
١	√apour	pressure	:	No data available	e				
F	Relative	e vapour density	:	No data available					
F	Relative	e density	:	No data available	9				
C	Density		:	No data available	9				
S	Solubili Wat	ty(ies) er solubility	:	No data available	9				
	Partition coefficient: n- octanol/water Auto-ignition temperature		:	No data available	9				
			:	No data available	9				
[Decom	position temperature	:	No data available	9				
١	√iscosit Visc	ty osity, kinematic	:	No data available	9				
E	Explosi	ve properties	:	Not explosive					
(Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.				
Ν	Molecu	lar weight	:	No data available	9				
-	Particle Particle	characteristics size	:	No data available	9				

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, han- dling 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

Exposure routes	: Inhalation Skin contact Ingestion Eye contact
	Eye contact



VersionRevision Date:SDS Number:Date of last issue: 30.09.20235.206.04.20241161096-00018Date of first issue: 19.12.2016		Date of last issue: 30.09.2023 Date of first issue: 19.12.2016
---	--	---

Acute toxicity

Not classified based on available information.

Components:

Calcium bis(dihydrogenorth	nop	hosphate) monohydrate:
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials
Acute inhalation toxicity	:	LC50 (Rat): > 2.6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Remarks: Based on data from similar materials
Acute dermal toxicity	:	LD50 (Rabbit): > 7,940 mg/kg
Calcium carbonate:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 420 Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity	:	LC50 (Rat): > 3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
Langbeinite:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 425 Remarks: Based on data from similar materials
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials
Paraffin oil:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity



rsion	Revision Date: 06.04.2024	SDS Number: 1161096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016
fenbe	endazole:		
Acute	oral toxicity	: LD50 (Rat): >	10,000 mg/kg
		LD50 (Mouse)	: > 10,000 mg/kg
-	corrosion/irritation	. The bar the for some office of	
	lassified based on ava ponents:	allable information.	
		rthophosphate) mon	obvdrate.
Speci		: Rabbit	
Resul		: No skin irritatio	on
Calci	um carbonate:		
Speci		: Rabbit	
Metho Resul		: OECD Test G : No skin irritatio	
-	beinite:		
Speci Metho			human epidermis (RhE)
Resul		: No skin irritatio	C) No. 440/2008, Annex, B.46
Rema			from similar materials
Paraf	fin oil:		
Speci		: Rabbit	
Resul	lt	: No skin irritatio	n
fenbe	endazole:		
Speci		: Rabbit	~~
	es	: Rabbit : No skin irritatio	on
	us eye damage/eye		
	es serious eye dama <u>c</u> oonents:	JC.	
-		rthophosphate) mon	obydrate:
Speci		: Rabbit	
Resul			ects on the eye
Calci	um carbonate:		
Speci		: Rabbit	
Resul	lt	: No eye irritatio	
Metho	bd	: OECD Test G	uideline 405



ersion 2	Revision Date: 06.04.2024		DS Number: 61096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016
	h-:-:::			
-	beinite:		Databi	
Speci Resu		:	Rabbit	, reversing within 7 days
Meth		:	OECD Test Gui	
Rema		:		rom similar materials
Parat	ffin oil:			
Spec	ies	:	Rabbit	
Resu	lt	:	No eye irritation	
fenbe	endazole:			
Spec		:	Rabbit	
Resu	lt	:	No eye irritation	
Resp	iratory or skin sensi	itisatio	on	
Skin	sensitisation			
Not c	lassified based on ava	ailable	information.	
-	iratory sensitisation			
Not c	lassified based on ava	ailable	information.	
<u>Com</u>	ponents:			
Calci	um bis(dihydrogend	orthop	hosphate) mono	hydrate:
Test		:	Local lymph noc	le assay (LLNA)
	sure routes	:	Skin contact	
Spec		:	Mouse	deline 120
Meth Resu		:	OECD Test Guid negative	deline 429
Rema		:		rom similar materials
Calci	um carbonate:			
Test			Local lymph noc	de assav (LLNA)
	sure routes	:	Skin contact	
Spec		:	Mouse	
Meth	od	:	OECD Test Gui	deline 429
Resu	lt	:	negative	
Lang	beinite:			
Test		:	Local lymph noc	le assay (LLNA)
Expo	sure routes	:	Skin contact	
Spec		:	Mouse	
Meth		:	OECD Test Gui	deline 429
Resu Rema		:	negative Based on data f	rom similar materials
17CH		•	Dased off data fi	ion similar materials



Version 5.2	Revision Date: 06.04.2024	SDS Number: 1161096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016
	nic toxicity		
	n cell mutagenicity lassified based on ava	ailable information	
_	ponents:		
		rthophosphate) mono	ohvdrate:
	ptoxicity in vitro	: Test Type: Bac Method: OECD	terial reverse mutation assay (AMES) Test Guideline 471
		Result: negative Remarks: Base	e ed on data from similar materials
			itro mammalian cell gene mutation test Test Guideline 476
		0	e d on data from similar materials
			tro micronucleus test Test Guideline 487
		Result: negative Remarks: Base	e d on data from similar materials
Calci	ium carbonate:		
Geno	otoxicity in vitro		terial reverse mutation assay (AMES) Test Guideline 471 e
			omosome aberration test in vitro Test Guideline 473 e
			itro mammalian cell gene mutation test Test Guideline 476 e
Lang	beinite:		
Geno	otoxicity in vitro	Method: OECD Result: negative	omosome aberration test in vitro Test Guideline 473 e d on data from similar materials
		Method: OECD Result: negative	terial reverse mutation assay (AMES) Test Guideline 471 e d on data from similar materials
		Method: OECD Result: negative	itro mammalian cell gene mutation test Test Guideline 476 e d on data from similar materials



Version 5.2	Revision Date: 06.04.2024		OS Number: 61096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016
famba				
	endazole: otoxicity in vitro	:	Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e
			Test Type: DNA Result: negative	
			Test Type: Chro Result: negative	omosomal aberration e
				ouse lymphoma cells ation: Metabolic activation
	inogenicity lassified based on ava	ilable	information.	
<u>Com</u>	ponents:			
fenbe	endazole:			
	cation Route sure time EL	:	Mouse oral (feed) 2 Years 405 mg/kg body negative	y weight
Expo NOAI Resu	cation Route sure time EL		Rat Oral 2 Years 5 mg/kg body v negative Lymph nodes, l	
-	oductive toxicity lassified based on ava	ilable	information.	
	ponents:			
	ium bis(dihydrogeno	rthop	hosphate) mono	bhydrate:
	ts on fertility	:	Test Type: Rep test Species: Rat Application Rou Method: OECD Result: negative	roduction/Developmental toxicity screening ute: Ingestion Test Guideline 421
Effec ment	ts on foetal develop-	:	Test Type: Eml Species: Rat	oryo-foetal development



Version 5.2	Revision Date: 06.04.2024	SDS Number: 1161096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016
		Application Ro Result: negati	oute: Ingestion ve
	cium carbonate: cts on fertility	reproduction/c Species: Rat Application Ro	ombined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion D Test Guideline 422 ve
Effe mer	cts on foetal develop- nt	Species: Rat Application Re	nbryo-foetal development oute: Ingestion D Test Guideline 414 ve
Lan	gbeinite:		
	cts on fertility	reproduction/o Species: Rat Application Ro Method: OEC Result: negati	ombined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion D Test Guideline 422 ve sed on data from similar materials
Effe mer	cts on foetal develop- it	reproduction/o Species: Rat Application Ro Method: OEC Result: negati	ombined repeated dose toxicity study with the developmental toxicity screening test oute: Ingestion D Test Guideline 422 ve sed on data from similar materials
fent	pendazole:		
	cts on fertility	Species: Rat Application Ro General Toxic	ree-generation reproduction toxicity study oute: oral (feed) city - Parent: NOAEL: 15 mg/kg body weight EL: 45 mg/kg body weight s on fertility
Effe mer	cts on foetal develop- t	Result: Embry spring were d	female



Version 5.2	Revision Date: 06.04.2024	SDS Number: 1161096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016
		Result: Fetotox Test Type: Eml Species: Rabbi	ute: Oral Toxicity: NOAEL: 25 mg/kg body weight icity pryo-foetal development t
		Application Rou Developmental	Toxicity: LOAEL: 63 mg/kg body weight
		Species: Rat Application Rot Developmental	oryo-foetal development ute: Oral Toxicity: NOAEL: 120 mg/kg body weight cts on foetal development
•	roductive toxicity - As- sment	fertility, based of	e of adverse effects on sexual function and on animal experiments., Some evidence of on development, based on animal experi-

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Components:

fenbendazole:

Exposure routes	:	Ingestion
Target Organs	:	Liver, Stomach, Nervous system, Lymph nodes
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

Repeated dose toxicity

Components:

Calcium bis(dihydrogenorthophosphate) monohydrate:

NOAEL:Application Route:Exposure time:Method:	Rat > 300 mg/kg Ingestion 28 Days OECD Test Guideline 407 Passed on data from similar materials
Remarks :	Based on data from similar materials

Calcium carbonate:

Species	:	Rat
NOAEL	:	> 1,000 mg/kg
Application Route	:	Ingestion



Version 5.2	Revision Date: 06.04.2024	SDS Number:Date of last issue: 30.09.20231161096-00018Date of first issue: 19.12.2016
Expo Meth	osure time od	: 28 Days : OECD Test Guideline 422
Spec NOA Appli	EL cation Route sure time od	 Rat > 100 mg/kg Ingestion 28 d OECD Test Guideline 422 Based on data from similar materials
Spec LOAI Appli		 Rat, female 161 mg/kg Ingestion 90 Days
Spec LOAI Appli Expo		: Rat : 500 mg/kg : Oral : 2 Weeks : Kidney, Liver
	EL cation Route sure time	 Rat > 2,500 mg/kg Oral 30 Days No significant adverse effects were reported
Expo Targe		 Rat 1,600 mg/kg Oral 90 Days Central nervous system Tremors
	EL	 Dog 4 mg/kg 8 mg/kg 6 Months Stomach, Nervous system, Lymph nodes

Aspiration toxicity

Not classified based on available information.



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
5.2	06.04.2024	1161096-00018	Date of first issue: 19.12.2016

Components:

Paraffin oil:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

fenbendazole:

No aspiration toxicity classification

Experience with human exposure

Components:

fenbendazole:

Ingestion

: Symptoms: Rapid respiration, Salivation, anorexia, Diarrhoea

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Calcium bis(dihydrogenorthophosphate) monohydrate:

Toxicity to fish :	LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic : plants	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to microorganisms :	EC50: > 100 mg/l Exposure time: 3 h Method: OECD Test Guideline 209 Remarks: Based on data from similar materials
Calcium carbonate:	
Toxicity to fish :	LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203



Vers 5.2	sion	Revision Date: 06.04.2024		9S Number: 61096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016
		to daphnia and other invertebrates	:	Exposure time: 48	Vater Accommodated Fraction
	Toxicity plants	to algae/aquatic	:	mg/l Exposure time: 72	Vater Accommodated Fraction
				mg/l Exposure time: 72	Vater Accommodated Fraction
	Toxicity	to microorganisms	:	NOEC: 1,000 mg/ Exposure time: 3 Method: OECD Te	h
				EC50: > 1,000 mg Exposure time: 3 Method: OECD Te	h
	Langbe	einite:			
	Toxicity		:	Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	Exposure time: 48	agna (Water flea)): > 100 mg/l s h on data from similar materials
	Paraffi	n oil:			
	Toxicity	-	:	Exposure time: 96 Test substance: V	nus maximus (turbot)): > 100 mg/l 5 h Vater Accommodated Fraction on data from similar materials
		to daphnia and other invertebrates	:	Exposure time: 48 Test substance: V	sa (Calanoid copepod)): > 100 mg/l h Vater Accommodated Fraction on data from similar materials
	Toxicity plants	to algae/aquatic	:	Exposure time: 72 Test substance: V	na costatum (marine diatom)): > 100 mg/l ? h Vater Accommodated Fraction on data from similar materials



rsion 2	Revision Date: 06.04.2024		S Number: 61096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016
			Exposure time: 7 Test substance:	nema costatum (marine diatom)): > 1 mg/l '2 h Water Accommodated Fraction on data from similar materials
fenbe	endazole:			
Toxic	ity to fish	:	LC50 (Lepomis r Exposure time: 2	nacrochirus (Bluegill sunfish)): 0.009 mg/l 1 d
	ity to daphnia and other tic invertebrates	:	Exposure time: 4	magna (Water flea)): 0.0088 mg/l ŀ8 h Fest Guideline 202
	ity to daphnia and other tic invertebrates (Chron- icity)		Exposure time: 2	magna (Water flea)): 0.00113 mg/l 1 Days Fest Guideline 211
	stence and degradabil ata available	ity		
Bioa	ccumulative potential			
Com	ponents:			
Partit	i fin oil: ion coefficient: n- ol/water	:	log Pow: > 4 Remarks: Calcul	ation
Partit	endazole: ion coefficient: n- ol/water	:	log Pow: 3.32	
Mobi	lity in soil			
Com	ponents:			
Distri	endazole: bution among environ- al compartments	:	log Koc: 3.8 - 4.7 Method: FDA 3.0	
	r adverse effects ata available			
CTION	13. DISPOSAL CONSI	JER		
	13. DISPOSAL CONSII	DER	Anono	





Version 5.2	Revision Date: 06.04.2024	SDS Number: 1161096-00018	Date of last issue: 30.09.2023 Date of first issue: 19.12.2016
		If not otherwise	specified: Dispose of as unused product.
SECTION	14. TRANSPORT IN	FORMATION	
Inter	national Regulations	5	
UNR UN n	TDG umber	: UN 3077	

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(fenbendazole)
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. (fenbendazole)
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.
		(fenbendazole)
Class	:	9
Packing group	:	
	:	9
EmS Code	:	F-A, S-F
Marine pollutant	·	yes
— (1 1 11 11		

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

Not applicable for product as supplied.

National Regulations

ADG UN number Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fenbendazole)
Class	:	9
Packing group	:	
Labels	:	9
Hazchem Code	:	2Z



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
5.2	06.04.2024	1161096-00018	Date of first issue: 19.12.2016

Environmentally hazardous : yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environme	ental regulations/I	egislation specific for the substance or mix-
Therapeutic Goods (Poisons Standard) Instrument		ease use the original publication to check for pecific conditions or threshold limits that might nemical)
Prohibition/Licensing Requirem	nents	: There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.
The components of this proc AICS	luct are reported i : not determined	-
DSL	: not determined	

: not determined

SECTION 16: ANY OTHER RELEVANT INFORMATION

IECSC

Further information Revision Date Sources of key data used to compile the Safety Data Sheet	:	06.04.2024 Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Date format Full text of other abbreviation		dd.mm.yyyy
ACGIH AU OEL		USA. ACGIH Threshold Limit Values (TLV) Australia. Workplace Exposure Standards for Airborne Con- taminants.
ACGIH / TWA AU OEL / TWA	:	8-hour, time-weighted average Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for



Version	Revision Date:	SDS Number:	Date of last issue: 30.09.2023
5.2	06.04.2024	1161096-00018	Date of first issue: 19.12.2016

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.

AU / EN