



Fenbendazole (0.5%) Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
4.2	09/28/2024	1161099-00018	Date of first issue: 12/19/2016

SECTION 1. IDENTIFICATION

Product name	:	Fenbendazole (0.5%) Solid Formulation
Other means of identification	:	No data available

Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
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@merck.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 in accordance with the Hazardous Products Regulations						
Serious eye damage	:	Category 1				
Reproductive toxicity	:	Category 2				
GHS label elements						
Hazard pictograms	:					
Signal Word	:	Danger				
Hazard Statements	:	H318 Causes serious eye damage. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.				
Precautionary Statements	:	Prevention:				
		P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood.				
		P280 Wear protective gloves, protective clothing, eye protection and 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. P308 + P313 IF exposed or concerned: Get medical attention.				

according to the Hazardous Products Regulations



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Storage:

P405 Store locked up.

Disposal:

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

Other hazards

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

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Calcium bis(dihydrogenorthoph osphate) monohydrate	Phosphoric acid, calcium salt (2:1), mon- ohydrate	10031-30-8	>= 30 - < 60 *
Calcium carbonate	Carbonic acid calcium salt	471-34-1	>= 10 - < 30 *
Langbeinite	Potassium Magnesium Sulphate	14977-37-8	>= 1 - < 5 *
Paraffin oil	No data availa- ble	8012-95-1	>= 1 - < 5 *
fenbendazole	No data availa- ble	43210-67-9	>= 0.1 - < 1 *

Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	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.
If inhaled	:	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.



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	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. Suspected of damaging fertility. Suspected of damaging the unborn child. 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). Treat symptomatically and supportively.		
SEC	Notes to physician SECTION 5. FIRE-FIGHTING MEA					
	Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		
	Unsuitable extinguishing : media		:	None known.		
	Specific fighting	c hazards during fire	:		dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard.	

Exposure to combustion products may be a hazard to health. Hazardous combustion prod- : Oxides of phosphorus ucts Metal oxides Carbon oxides Chlorine compounds Specific extinguishing meth-Use extinguishing measures that are appropriate to local cir-: cumstances and the surrounding environment. ods 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	:	In the event of fire, wear self-contained breathing apparatus.
for fire-fighters		Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages

SAFETY DATA SHEET according to the Hazardous Products Regulations



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		cannot be conta	ained.
	ds and materials for ment and cleaning up	container for di Avoid dispersal with compresse Dust deposits s surfaces, as the released into th Local or nation disposal of this employed in the determine whic Sections 13 an	of dust in the air (i.e., clearing dust surfaces

SECTION 7. HANDLING AND STORAGE

Technical measures	Static electricity may accumulate and ignite suspectations and explosion. Provide adequate precautions, such as electrical and bonding, or inert atmospheres.	
Local/Total ventilation Advice on safe handling	Use only with adequate ventilation. 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 hygien practice, based on the results of the workplace ex assessment Keep container tightly closed. 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 disch Take care to prevent spills, waste and minimize re environment.	arges.
Conditions for safe storage	Keep in properly labeled containers. Keep tightly closed. Store in accordance with the particular national re	aulations.
Materials to avoid	Do not store with the following product types: Strong oxidizing agents	<u></u>

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
Calcium carbonate	471-34-1	TWAEV (to-	10 mg/m³	CA QC OEL



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			tal dust)		1	
			TWA	10 mg/m³ (Calcium car- bonate)	CA AB O	
			TWA (Total dust)	10 mg/m ³	CA BC O	
			TWA (respir- able dust fraction)	3 mg/m³	CA BC O	
			STEL	20 mg/m ³	CA BC O	
Paraf	fin oil	8012-95-1	TWA (Mist)	5 mg/m ³	CA AB O	
i uiui		0012 00 1	STEL (Mist)	10 mg/m ³	CA AB O	
			TWAEV (Mist - Inhalable dust)	5 mg/m ³	CA QC O	
			TWA (Mist)	1 mg/m ³	CA BC O	
			TWA (Inhalable particulate matter)	5 mg/m ³	ACGIH	
fenbe	endazole	43210-67-9	TWA	100 µg/m3 (OEB 2)	Internal	
	-	compound. All engineeri	ng controls shoul	rols to minimize exp d be implemented by dance with GMP prin	y facility	
Perso	onal protective equip	compound. All engineeri design and c protect prode	ng controls shoul	d be implemented by	y facility	
	onal protective equip iratory protection	compound. All engineeri design and c protect produ ment : If adequate I exposure as	ng controls shoul operated in accord ucts, workers, and ocal exhaust vent sessment demon	d be implemented by dance with GMP prin d the environment. tilation is not availab strates exposures ou	y facility iciples to le or utside the	
Resp Fil	iratory protection	compound. All engineeri design and c protect prode ment : If adequate I exposure as recommende	ng controls shoul operated in accord ucts, workers, and ocal exhaust vent sessment demon	d be implemented by dance with GMP prin d the environment. tilation is not availab strates exposures ou e respiratory protectio	y facility iciples to le or utside the	
Resp Fil Hand	iratory protection	compound. All engineeri design and c protect produ ment : If adequate I exposure as recommende : Combined p	ng controls shoul operated in accord ucts, workers, and ocal exhaust vent sessment demon	d be implemented by dance with GMP prin d the environment. tilation is not availab strates exposures ou e respiratory protectio	y facility iciples to le or utside the	
Resp Fil Hand Ma	iratory protection Iter type protection	compound. All engineeri design and c protect produ ment : If adequate I exposure as recommende : Combined p : Chemical-re : Wear safety If the work e mists or aero Wear a face	ng controls shoul operated in accord ucts, workers, and ocal exhaust vent sessment demon ed guidelines, use articulates and or sistant gloves glasses with side pvironment or act psols, wear the ap shield or other ful	d be implemented by dance with GMP prin d the environment. tilation is not availab strates exposures ou e respiratory protectio	y facility iciples to le or utside the on. conditions, ere is a	

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			use of administrat	ive controls.
SECTIO	N 9. PHYSICAL AND CH	EMIC		6
App	bearance	:	powder	
Col	or	:	No data available)
Ode	or	:	No data available)
Ode	or Threshold	:	No data available	9
pН		:	No data available)
Me	ting point/freezing point	:	No data available)
Initi ran	al boiling point and boiling ge	:	No data available	
Fla	sh point	:	Not applicable	
Eva	aporation rate	:	No data available)
Fla	mmability (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.
Fla	mmability (liquids)	:	No data available	
	per explosion limit / Upper nmability limit	:	No data available	
	ver explosion limit / Lower nmability limit	:	No data available	
Vap	oor pressure	:	No data available)
Rel	ative vapor density	:	No data available	9
Rel	ative density	:	No data available)
Der	nsity	:	No data available)
	ubility(ies) Water solubility	:	No data available)
octa	tition coefficient: n- anol/water oignition temperature	:	No data available No data available	
	composition temperature	•	No data available	
Vis	cosity Viscosity, kinematic	:	No data available	



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Explo	sive properties	:	Not explosive			
Oxidizing properties		:	: The substance or mixture is not classified as oxidizing.			
Moleo	cular weight	:	No data available	e		
	le characteristics le size	:	No data available	e		

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: > 2,000 mg/kg
		Method: Calculation method

Components:

Calcium bis(dihydrogenorthophosphate) 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

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Calci	um carbonate:		
Acute	oral toxicity		2,000 mg/kg D Test Guideline 420 The substance or mixture has no acute oral to
Acute	inhalation toxicity		e: 4 h
Acute	e dermal toxicity		2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute derma
Lang	beinite:		
Acute	oral toxicity		2,000 mg/kg D Test Guideline 425 sed on data from similar materials
Acute	e dermal toxicity		2,000 mg/kg D Test Guideline 402 sed on data from similar materials
Paraf	fin oil:		
Acute	oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	e dermal toxicity		: > 2,000 mg/kg The substance or mixture has no acute derma
fenbe	endazole:		
Acute	oral toxicity	: LD50 (Rat): >	10,000 mg/kg
		LD50 (Mouse)): > 10,000 mg/kg
-	corrosion/irritation		
	lassified based on av conents:	ailable information.	

Calcium bis(dihydrogenorthophosphate) monohydrate:

Species	:	Rabbit
Result	:	No skin irritation

Calcium carbonate:

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Specie Metho Resul	bd	 Rabbit OECD Test Guideline 404 No skin irritation
Lang	beinite:	
Specie Metho Resul Rema	bd t	 reconstructed human epidermis (RhE) Regulation (EC) No. 440/2008, Annex, B.46 No skin irritation Based on data from similar materials
Paraf	fin oil:	
Specie Resul		: Rabbit : No skin irritation
fenbe	endazole:	
Specie Resul		: Rabbit : No skin irritation
	us eye damage/eye	
	es serious eye damaç conents:	je.
		rthophosphate) monohydrate:
Specie Resul	es	: Rabbit : Irreversible effects on the eye
Calci	um carbonate:	
Specie Resul Metho	t	 Rabbit No eye irritation OECD Test Guideline 405
Langl	beinite:	
Specie Resul Metho Rema	t od	 Rabbit Irritation to eyes, reversing within 7 days OECD Test Guideline 405 Based on data from similar materials
Paraf	fin oil:	
Specie Resul	es	: Rabbit : No eye irritation
fenbe	endazole:	
Specie Resul		: Rabbit : No eye irritation

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Resp	iratory or skin sens	itizatio	on	
-	sensitization			
•••••	lassified based on av	ailable	information.	
Resp	iratory sensitizatior	า		
Not c	lassified based on av	ailable	information.	
Com	ponents:			
Calci	um bis(dihydrogene	orthop	hosphate) mono	bhydrate:
Test		:	• •	de assay (LLNA)
Speci	es of exposure	:	Skin contact Mouse	
Metho		:	OECD Test Gui	ideline 429
Resu	lt	:	negative	
Rema	arks	:	Based on data t	from similar materials
Calci	um carbonate:			
Test		:		de assay (LLNA)
	es of exposure	:	Skin contact	
Speci Metho			Mouse OECD Test Gui	ideline 429
Resu		:	negative	
Lang	beinite:			
Test	Туре	:	Local lymph no	de assay (LLNA)
	es of exposure	:	Skin contact	
Speci Metho		÷	Mouse OECD Test Gui	ideline 429
Resu		:	negative	
Rema	arks	:		from similar materials
Germ	n cell mutagenicity			
Not c	lassified based on av	ailable	information.	
<u>Com</u>	ponents:			
Calci	um bis(dihydrogend	orthop	hosphate) mono	bhydrate:
Geno	otoxicity in vitro	:		terial reverse mutation assay (AMES)
				Test Guideline 471
			Result: negative Remarks: Base	e d on data from similar materials
				tro mammalian cell gene mutation tes
				Test Guideline 476
			Result: negative	e e en dete from cimiler motoriale

Remarks: Based on data from similar materials

Test Type: in vitro micronucleus test Method: OECD Test Guideline 487 Result: negative Remarks: Based on data from similar materials

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Calc	ium carbonate:		
Gen	otoxicity in vitro		Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 gative
			Chromosome aberration test in vitro ECD Test Guideline 473 gative
			: In vitro mammalian cell gene mutation test ECD Test Guideline 476 gative
Land	gbeinite:		
Genotoxicity in vitro		Method: O Result: ne	Chromosome aberration test in vitro ECD Test Guideline 473 gative Based on data from similar materials
		Method: O Result: ne	: Bacterial reverse mutation assay (AMES) ECD Test Guideline 471 gative Based on data from similar materials
		Method: O Result: ne	In vitro mammalian cell gene mutation test ECD Test Guideline 476 gative Based on data from similar materials
fenh	endazole:		
	otoxicity in vitro	: Test Type: Result: ne	Bacterial reverse mutation assay (AMES) gative
		Test Type: Result: ne	DNA Repair gative
		Test Type: Result: ne	Chromosomal aberration gative
		Test syste	in vitro test m: mouse lymphoma cells activation: Metabolic activation uivocal

Carcinogenicity

Not classified based on available information.

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<u>Con</u>	nponents:			
fent	pendazole:			
Spe	cies	:	Mouse	
	lication Route	:	oral (feed)	
Exp NO/	osure time	:	2 Years	h woight
Res		:	405 mg/kg boo negative	iy weight
Spe		:	Rat	
	lication Route	:	Oral	
Exp NO/	osure time		2 Years 5 mg/kg body	veight
Res		÷	negative	weight
Targ	get Organs	:	Lymph nodes,	Liver
Rep	roductive toxicity			
	pected of damaging fertili	ty. S	uspected of dar	maging the unborn child.
	nponents:			
	cium bis(dihydrogenorth	hoph		-
Effe	cts on fertility	:	Test Type: Re test	production/Developmental toxicity screening
			Species: Rat	
			Application Ro	
) Test Guideline 421
			Result: negativ Remarks: Base	ed on data from similar materials
Effe	cts on fetal development	:		bryo-fetal development
			Species: Rat	uter Inspection
			Application Ro Result: negative	
Calo	cium carbonate:			
	cts on fertility	:	Test Type: Co	mbined repeated dose toxicity study with the
	·			evelopmental toxicity screening test
			Species: Rat	uter Ingention
			Application Ro) Test Guideline 422
			Result: negativ	
Effe	cts on fetal development	:		bryo-fetal development
			Species: Rat Application Ro	ute: Indestion
) Test Guideline 414
			Result: negativ	
Lan	gbeinite:			
Effe	cts on fertility	:		mbined repeated dose toxicity study with the
			reproduction/d	evelopmental toxicity screening test
			10/0	2

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				Species: Rat Application Route Method: OECD Te Result: negative Remarks: Based of	-
	Effects	on fetal development	:	reproduction/deve Species: Rat Application Route Method: OECD Te Result: negative	
	fenben	dazole:			
		on fertility	:	Species: Rat Application Route General Toxicity F	Parent: NOAEL: 15 mg/kg body weight I5 mg/kg body weight
	Effects on fetal development		:	Result: Embryotox	ale
				Species: Rabbit Application Route	oxicity: NOAEL: 25 mg/kg body weight
				Species: Rabbit Application Route	o-fetal development : Oral oxicity: LOAEL: 63 mg/kg body weight
				Species: Rat Application Route Developmental To	o-fetal development : Oral oxicity: NOAEL: 120 mg/kg body weight on fetal development.
	Reprod sessme	luctive toxicity - As- ent	:	fertility, based on	adverse effects on sexual function and animal experiments., Some evidence of development, based on animal

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STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Components:

fenbendazole:

Routes of exposure	:	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:

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

Calcium carbonate:

Species	:	Rat
NOAEL	:	> 1,000 mg/kg
Application Route	:	Ingestion
Exposure time	:	28 Days
Method	:	OECD Test Guideline 422

Langbeinite:

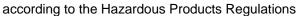
-	
Species :	Rat
NOAEL :	> 100 mg/kg
Application Route :	Ingestion
Exposure time :	28 d
Method :	OECD Test Guideline 422
Remarks :	Based on data from similar materials

Paraffin oil:

Species	:	Rat, female
LOAEL	:	161 mg/kg
Application Route	:	Ingestion
Exposure time	:	90 Days

fenbendazole:

Species	:	Rat
LÖAEL	:	500 mg/kg
Application Route	:	Oral





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Exposure time Target Organs		:	2 Weeks Kidney, Liver		
Species NOAEL Application Route Exposure time Remarks		:	 Rat > 2,500 mg/kg Oral 30 Days No significant adverse effects were reported 		
Species LOAEL Application Route Exposure time Target Organs Symptoms		:	Rat 1,600 mg/kg Oral 90 Days Central nervous Tremors	ssystem	
Species:NOAEL:LOAEL:Exposure time:Target Organs:		Dog 4 mg/kg 8 mg/kg 6 Months Stomach, Nervo	ous system, Lymph nodes		

Aspiration toxicity

Not classified based on available information.

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, Diarrhea

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



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	Toxicity to daphnia and other aquatic invertebrates		Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic s	:	mg/l Exposure time: 72 Method: OECD To	
Toxic	ity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 Method: OECD To Remarks: Based o	h
Calci	um carbonate:			
Toxic	ity to fish	:	Exposure time: 96	Vater Accommodated Fraction
	ity to daphnia and other tic invertebrates	:	Exposure time: 48	Vater Accommodated Fraction
Toxic plants	ity to algae/aquatic s	:	mg/l Exposure time: 72	Vater Accommodated Fraction
			mg/l Exposure time: 72	Vater Accommodated Fraction
Toxic	ity to microorganisms	:	NOEC: 1,000 mg/ Exposure time: 3 Method: OECD Te	h
			EC50: > 1,000 mg Exposure time: 3 Method: OECD To	h
Lang	beinite:			
-	ity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD To	



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			Remarks: Based	l on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	magna (Water flea)): > 100 mg/l ł8 h l on data from similar materials
Paraf	fin oil:			
Toxici	ity to fish	:	Exposure time: 9 Test substance:	mus maximus (turbot)): > 100 mg/l 96 h Water Accommodated Fraction I on data from similar materials
	ty to daphnia and other ic invertebrates	:	Exposure time: 4 Test substance:	nsa (Calanoid copepod)): > 100 mg/l l8 h Water Accommodated Fraction l on data from similar materials
Toxici plants	ty to algae/aquatic	:	Exposure time: 7 Test substance:	ema costatum (marine diatom)): > 100 mg/l 72 h Water Accommodated Fraction I on data from similar materials
			Exposure time: 7 Test substance:	onema costatum (marine diatom)): > 1 mg/l 72 h Water Accommodated Fraction I on data from similar materials
fenbe	endazole:			
Toxici	ty to fish	:	LC50 (Lepomis Exposure time: 2	macrochirus (Bluegill sunfish)): 0.009 mg/l 21 d
	ty to daphnia and other ic invertebrates	:	Exposure time: 4	magna (Water flea)): 0.0088 mg/l ł8 h Test Guideline 202
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 0.00113 mg/l 21 Days Test Guideline 211
	stence and degradabili	ity		
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Paraf	fin oil:			
	on coefficient: n- ol/water	:	log Pow: > 4 Remarks: Calcu	ation
fenbe	endazole:			
	on coefficient: n-		log Pow: 3.32	

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octar	ol/water		
Mobi	lity in soil		
Com	ponents:		
Distri	endazole: bution among environ- al compartments		:: 3.8 - 4.7 I: FDA 3.08
••	r adverse effects ata available		
SECTION	13. DISPOSAL CONS	IDERATIONS	5
Disp	osal methods		
Wast	e from residues		dispose of waste into sewer. e of in accordance with local regulations.
Conta	aminated packaging	: Empty of handling	containers should be taken to an approved waste g site for recycling or disposal. therwise specified: Dispose of as unused product.
SECTION	14. TRANSPORT INF	ORMATION	
Inter	national Regulations		
-	TDG umber er shipping name	: UN 307 : ENVIRO	77 ONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

	•	
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 Proper shipping name	:	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fenbendazole)



according to the Hazardous Products Regulations

Fenbendazole (0.5%) Solid Formulation

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Lab Em	king group	: 9 : III : 9 : F-A, S-F : yes	
Not	nsport in bulk accordin applicable for product a nestic regulation	-	RPOL 73/78 and the IBC Code
) number ber shipping name	: UN 3077 : ENVIRONMEN N.O.S. (fenbendazole	NTALLY HAZARDOUS SUBSTANCE, SOLID,
Lab ERC	king group	: 9 : III : 9 : 171 : yes(fenbendaz	, ,

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

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

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

SECTION 16. OTHER INFORMATION

Full text of other abbreviations				
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)		
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)		
CA BC OEL	:	Canada. British Columbia OEL		
CA QC OEL	:	Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants		
ACGIH / TWA	:	8-hour, time-weighted average		
CA AB OEL / TWA	:	8-hour Occupational exposure limit		
CA AB OEL / STEL	:	15-minute occupational exposure limit		
CA BC OEL / TWA	:	8-hour time weighted average		
CA BC OEL / STEL	:	short-term exposure limit		



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CA QC OEL / TWAEV : Time-weighted average exposure 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 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 Agen- cy, http://echa.europa.eu/
Revision Date	:	09/28/2024

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Date format	: mm/dd/yyyy

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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