according to the Hazardous Products Regulations



## Fenbendazole (20%) Solid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/06/2024
5.0	07/06/2024	24654-00029	Date of first issue: 10/22/2014

### **SECTION 1. IDENTIFICATION**

Product name	:	Fenbendazole (20%) 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						
Reproductive toxicity : Category 2						
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Liver, Stomach, Nervous system, Lymph nodes)				

### **GHS** label elements

Hazard pictograms :	
Signal Word :	Warning
Hazard Statements :	H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs (Liver, Stomach, Nervous system, Lymph nodes) through prolonged or repeated exposure if swallowed.
Precautionary Statements :	<ul> <li>Prevention:</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P260 Do not breathe dust, fume, gas, mist, vapors or spray.</li> <li>P280 Wear protective gloves, protective clothing, eye protection and face protection.</li> </ul>
	<b>Response:</b> P308 + P313 IF exposed or concerned: Get medical attention.

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### Storage:

P405 Store locked up.

### **Disposal:**

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

### Other hazards

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

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Calcium carbonate	Carbonic acid calcium salt	471-34-1	>= 10 - < 30 *
Starch	Sago starch	9005-25-8	>= 10 - < 30 *
fenbendazole	No data availa- ble	43210-67-9	>= 10 - < 30 *
Silicon, amorphous	Silicon dioxide	112945-52-5	>= 1 - < 5 *

<sup>\*</sup> 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	:	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. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed. Contact with dust can cause mechanical irritation or drying of the skin.



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Protection of first-aiders		: Firs	<ul> <li>Dust contact with the eyes can lead to mechanical irritation</li> <li>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).</li> </ul>			
Notes	to physician	: Tre	at symptoma	tically and supportively.		
SECTION	5. FIRE-FIGHTING ME	ASURE	6			
Suitab	ble extinguishing media	Alc Ca	ter spray ohol-resistant bon dioxide ( chemical			
Unsui media	table extinguishing		ne known.			
fightin		: Exp	osure to com	bustion products may be a hazard to health.		
Hazar ucts	dous combustion prod-	Niti Sul	bon oxides ogen oxides fur oxides tal oxides	(NOx)		
Speci ods	fic extinguishing meth-	cur Use Rei so.	nstances and water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. aged containers from fire area if it is safe to do		
	al protective equipment e-fighters			e, wear self-contained breathing apparatus. Detective equipment.		

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 cannot be contained.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

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		Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.					
SECTIO	N 7. HANDLING AND ST	ORAGE					
Tecl	nnical measures	causi Provi	<ul> <li>Static electricity may accumulate and ignite suspended dust causing an explosion.</li> <li>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.</li> </ul>				
	Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not breathe dust, fume, gas, mist, vapors or spray. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safe 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 t				
	ditions for safe storage erials to avoid	<ul> <li>environment.</li> <li>e Keep in properly labeled containers.</li> <li>Store locked up.</li> <li>Store in accordance with the particular national regulations</li> <li>Do not store with the following product types: Strong oxidizing agents</li> </ul>					

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

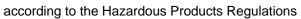
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Calcium carbonate	471-34-1	TWAEV (to- tal dust)	10 mg/m³	CA QC OEL
		TWA	10 mg/m <sup>3</sup> (Calcium car- bonate)	CA AB OEL
		TWA (Total dust)	10 mg/m³	CA BC OEL
		TWA (respir- able dust fraction)	3 mg/m <sup>3</sup>	CA BC OEL
		STEL	20 mg/m <sup>3</sup>	CA BC OEL
Starch	9005-25-8	TWA	10 mg/m <sup>3</sup>	CA AB OEL
		TWA (Total dust)	10 mg/m³	CA BC OEL
		TWA (respir- able dust	3 mg/m <sup>3</sup>	CA BC OEL



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╟──				fraction) TWAEV (to-	10 mg/m <sup>3</sup>	CA QC OE			
				tal dust)					
				TWA	10 mg/m <sup>3</sup>	ACGIH			
fenbe	endazole		43210-67-9	TWA	100 µg/m3 (OEB 2)	Internal			
Silico	n, amorphous		112945-52-5	TWAEV (respirable dust)	6 mg/m <sup>3</sup>	CA QC OE			
Engii	neering measures	:	compound. All engineerin design and op	g controls shou perated in accor	trols to minimize exp ld be implemented by dance with GMP prin d the environment.	/ facility			
Perso	onal protective equip	ment	:						
Respiratory protection :			If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.						
	lter type	:	Particulates type						
	protection aterial	:	Chemical-res	stant gloves					
Eye p	protection	:	<ul> <li>Wear safety glasses with side shields or goggles.</li> <li>If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.</li> <li>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>						
	and body protection ene measures	:	<ul> <li>Work uniform or laboratory coat.</li> <li>If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.</li> <li>When using do not eat, drink or smoke.</li> <li>Wash contaminated clothing before re-use.</li> <li>The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.</li> </ul>						

Appearance	:	granules
Color	:	light yellow
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	6 - 8





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	Melting	point/freezing point	:	No data available	)
	Initial be range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available	)
	Evapor	ation rate	:	No data available	)
	Flammability (solid, gas)		:	May form explosi handling or other	ve dust-air mixture during processing, means.
	Flamma	ability (liquids)	:	No data available	)
		explosion limit / Upper bility limit	:	No data available	)
		explosion limit / Lower bility limit	:	No data available	•
	Vapor p	pressure	:	No data available	)
	Relative	e vapor density	:	No data available	9
	Relative	e density	:	No data available	9
	Density		:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	insoluble	
		n coefficient: n-	:	No data available	)
	octanol, Autoign	/water ition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi				
	Visc	osity, kinematic	:	No data available	)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Minimu	m ignition energy	:	> 500 mJ	
	Particle Particle	characteristics size	:	No data available	2

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### SECTION 10. STABILITY AND REACTIVITY

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

### SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

#### Acute toxicity

Not classified based on available information.

### Components:

### Calcium carbonate:

ourorann our sonator		
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
Starch:		
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg
fenbendazole:		
Acute oral toxicity	:	LD50 (Rat): > 10,000 mg/kg

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I		LD50 (Mous	e): > 10,000 mg/kg				
Silico	on, amorphous:						
Acute	oral toxicity		> 5,000 mg/kg CD Test Guideline 401 ased on data from similar materials				
Acute	inhalation toxicity	Exposure tin Test atmosp Assessment tion toxicity	LC50 (Rat): > 2.08 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity Remarks: Based on data from similar materials				
Acute	e dermal toxicity		it): > 5,000 mg/kg ased on data from similar materials				
II Skin (	corrosion/irritation						
	lassified based on ava ponents:	ailable information.					
	um carbonate:	Date:					
Speci Metho		: Rabbit	Guideline 404				
Resul		: No skin irrita					
	endazole:						
Speci Resul		: Rabbit : No skin irrita	tion				
	on, amorphous:						
Speci		: Rabbit					
Metho Resul		: OECD Test	Guideline 404				
Rema			ata from similar materials				
Serio	us eye damage/eye	irritation					
	lassified based on ava	ailable information.					
Comp	oonents:						
Calci	um carbonate:						
Speci		: Rabbit					
Resul Metho		: No eye irrita : OECD Test	tion Guideline 405				
Starc	h:						
Speci	es	: Rabbit					
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Resu	lt	:	No eye irritatio	n
fenbe	endazole:			
Spec			Rabbit	
Resu			No eye irritatio	n
Silico	on, amorphous:			
Spec			Rabbit	
Resu			No eye irritatio	
Meth			OECD Test G	
Rema	arks	:	Based on data	from similar materials
Resp	piratory or skin sensi	itizatior	ı	
Skin	sensitization			
Not c	lassified based on av	ailable i	nformation.	
Resp	biratory sensitization			
-	lassified based on av		nformation.	
	ponents:			
Calci	ium carbonate:			
Test	Туре			ode assay (LLNA)
	es of exposure		Skin contact	
Spec Meth			Mouse OECD Test G	uideline 429
Resu			negative	
			- 0	
Starc	:h:			
Test	Туре	:	Maximization -	Test
	es of exposure		Skin contact	
Spec			Guinea pig	
Resu	п	•	negative	
Germ	n cell mutagenicity			
	lassified based on av	ailahle i	nformation	
	ponents:			
	ium carbonate:			
Geno	otoxicity in vitro			cterial reverse mutation assay (AMES)
			Result: negativ	D Test Guideline 471
			Result. negati	
			Test Type: Ch	romosome aberration test in vitro
				D Test Guideline 473
			Result: negativ	/e
			Test Type: In y	vitro mammalian cell gene mutation test
				D Test Guideline 476
			9 / 18	3

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I			Result: negative				
	<b>Starch:</b> Genotoxicity in vitro		Test Type: Bacterial reverse mutation assay (AMES) Result: negative				
fenbendazole:							
	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)			
			Test Type: DNA Result: negative	Repair			
			Test Type: Chror Result: negative	nosomal aberration			
				use lymphoma cells ion: Metabolic activation			
Silico	on, amorphous:						
	toxicity in vitro	:	Method: OECD T Result: negative	rial reverse mutation assay (AMES) Test Guideline 471 on data from similar materials			
Geno	toxicity in vivo	:	cytogenetic test, Species: Rat Application Route Result: negative	genicity (in vivo mammalian bone-marrow chromosomal analysis) e: Ingestion on data from similar materials			
II Carci	inogenicity						
	lassified based on avai	ilable	information.				
	ponents:						
	endazole:						
Spec Appli	ies cation Route sure time EL	:	Mouse oral (feed) 2 Years 405 mg/kg body negative	weight			
	cation Route sure time EL	:	Rat Oral 2 Years 5 mg/kg body we negative	ight			

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Target	Target Organs		Lymph nodes, Liv	er	
Specie Applic Expos Result	Silicon, amorphous: Species Application Route Exposure time Result Remarks		Rat Ingestion 103 weeks negative Based on data fro	om similar materials	
<b>Reproductive toxicity</b> Suspected of damaging fertility. Suspected of damaging the unborn child. <u>Components:</u>					
	<b>im carbonate:</b> s on fertility	:			
Effects	s on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD T Result: negative		
II fenbe	ndazole:				
Effects	s on fertility	:	Species: Rat Application Route General Toxicity F	Parent: NOAEL: 15 mg/kg body weight 45 mg/kg body weight	
Effects	s on fetal development	:	Result: Embryoto	nale	
			Species: Rabbit Application Route	oxicity: NOAEL: 25 mg/kg body weight	
			Test Type: Embry Species: Rabbit Application Route	ro-fetal development : Oral	

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I			Developmental To	oxicity: LOAEL: 63 mg/kg body weight
			Species: Rat Application Route Developmental To	vo-fetal development e: Oral oxicity: NOAEL: 120 mg/kg body weight s on fetal development.
Repro sessr	oductive toxicity - As- nent	:	fertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal
Silico	on, amorphous:			
	s on fetal development	:	Species: Rat Application Route Result: negative	vo-fetal development e: Ingestion on data from similar materials
	-single exposure			
Not c	lassified based on availa	able	information.	
May o	<b>F-repeated exposure</b> cause damage to organs d or repeated exposure			yous system, Lymph nodes) through pro-
Com	<u>oonents:</u>			
fenbe	endazole:			
Route Targe	es of exposure et Organs ssment	:		lervous system, Lymph nodes ge to organs through prolonged or repeated
Repe	ated dose toxicity			
Com	oonents:			
Calci	um carbonate:			
	EL cation Route sure time		Rat > 1,000 mg/kg Ingestion 28 Days OECD Test Guide	eline 422
Starc	h:			
Speci NOAI	es	:	Rat >= 2,000 mg/kg	

Method

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fenbe Spec LOAE Applie Expo Targe Spec NOAI Applie Expo Rema Spec LOAE Applie Expo Targe Symp	endazole: ies EL cation Route sure time et Organs ies EL cation Route sure time arks ies EL cation Route sure time et Organs otoms	: Rat : 500 mg/kg : Oral : 2 Weeks : Kidney, Liver : Rat : > 2,500 mg/k : Oral : 30 Days	g t adverse effects were reported
	EL	: Dog : 4 mg/kg : 8 mg/kg : 6 Months : Stomach, Ne	rvous system, Lymph nodes
Spec NOAI Appli	EL cation Route sure time	: Rat : 1.3 mg/l : inhalation (du : 13 Weeks : Based on dat	ist/mist/fume) a from similar materials
Not c	ration toxicity lassified based on ava ponents:	ilable information.	
	endazole: spiration toxicity classi	fication	
Expe	rience with human e	xposure	
	ponents:		
Inges	endazole: stion	: Symptoms: R	apid respiration, Salivation, anorexia, Diarrhea

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### SECTION 12. ECOLOGICAL INFORMATION

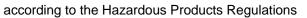
### Ecotoxicity

### **Components:**

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
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	NOELR (Pseudokirchneriella subcapitata (green algae)): 50 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
		EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201
Toxicity to microorganisms	:	NOEC: 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
		EC50: > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
fenbendazole:		
Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.009 mg/l Exposure time: 21 d
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.0088 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.00113 mg/l Exposure time: 21 Days Method: OECD Test Guideline 211

### Silicon, amorphous:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 10,000 mg/l
11		Exposure time: 96 h





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				est Guideline 203 on data from similar materials
	tity to daphnia and other tic invertebrates	:	Exposure time: 24 Method: OECD T	nagna (Water flea)): > 1,000 mg/l 4 h est Guideline 202 on data from similar materials
Toxic plant	sity to algae/aquatic s	:	mg/l Exposure time: 72 Method: OECD T	
			mg/l Exposure time: 72 Method: OECD T	
	<b>istence and degradabil</b> ata available	ity		
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
Partit	endazole: tion coefficient: n- nol/water	:	log Pow: 3.32	
Mobi	lity in soil			
<u>Com</u>	ponents:			
Distri	endazole: bution among environ- al compartments	:	log Koc: 3.8 - 4.7 Method: FDA 3.0	3
••	r adverse effects ata available			
	ata available 13. DISPOSAL CONSII	DEF	ATIONS	

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

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### SECTION 14. TRANSPORT INFORMATION

### **International Regulations**

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

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

Not applicable for product as supplied.

### **Domestic regulation**

TDG		
UN number :	:	UN 3077
Proper shipping name :	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fenbendazole)
Class :	:	9
Packing group :	:	III
Labels :	:	9
ERG Code :	:	171
Marine pollutant :	:	yes(fenbendazole)



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#### 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

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

### SECTION 16. OTHER INFORMATION

#### Full text of other abbreviations

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



## Fenbendazole (20%) Solid Formulation

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

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