according to GB/T 16483 and GB/T 17519



# Fenbendazole (0.5%) Crumbles Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/04/06
3.0	2024/09/28	6116952-00013	Date of first issue: 2020/07/17

## **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Fenbendazole (0.5%) Crumbles Formulation					
Manufacturer or supplier's de	Manufacturer or supplier's details						
Company	:	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 Colour Odour	:	pellets No data available No data available
Very toxic to aquatic life. Toxic	to	aquatic life with long lasting effects.
GHS Classification Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 2
GHS label elements		
Hazard pictograms	:	¥2
Signal word	:	Warning
Hazard statements	:	H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.

according to GB/T 16483 and GB/T 17519



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#### Precautionary statements

Prevention:

P273 Avoid release to the environment.

Response: P391 Collect spillage.

### Disposal:

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

#### Physical and chemical hazards

Not classified based on available information.

#### Health hazards

Not classified based on available information.

#### Environmental hazards

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

#### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Paraffin oil	8012-95-1	>= 1 -< 2.5
fenbendazole	43210-67-9	>= 0.25 -< 1

#### 4. FIRST AID MEASURES

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medical advice.</li> </ul>
If inhaled	: If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with soap and plenty of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>
In case of eye contact	: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention.

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

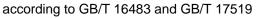


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and use the recommen		ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8).			
5. F	IREFIGI	TING MEASURES			
	Suitable extinguishing media		:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical	
	Unsuitable extinguishing media		:	None known.	
	Specific hazards during fire- fighting		:	Exposure to comb	pustion products may be a hazard to health.
	Hazardous combustion prod- ucts		:	Carbon oxides Metal oxides	
	Specific extinguishing meth- ods		:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
Special protective equipment:In the event of fire, wear self-contained breadfor firefightersUse personal protective equipment.					
6. A	CCIDEN	ITAL RELEASE MEAS	SUF	RES	
	tive equ	al precautions, protec- upment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal pro- recommendations (see section 8).
	Enviror	mental precautions	: Avoid release to the environment.		

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 con- tainer for disposal.

Local or national regulations may apply to releases and dis-





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			employed in the c mine which regula Sections 13 and 2	rial, as well as those materials and items leanup of releases. You will need to deter- ations are applicable. I5 of this SDS provide information regarding tional requirements.	
7. HANDL	ING AND STORAGE				
Hand	dling				
Tech	nical measures			measures under EXPOSURE SONAL PROTECTION section.	
	l/Total ventilation ce on safe handling	:	<ul> <li>Use only with adequate ventilation.</li> <li>Do not swallow.</li> <li>Avoid contact with eyes.</li> <li>Avoid prolonged or repeated contact with skin.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Take care to prevent spills, waste and minimize release to the environment.</li> </ul>		
Avoid	dance of contact	:	: Oxidizing agents		
Stora	age				
Conc	litions for safe storage			abelled containers. ce with the particular national regulations.	
Mate	rials to avoid	: Do not store with the following product types: Strong oxidizing agents			
Pack	aging material	: Unsuitable material: None known.		al: None known.	

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

			à	
Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Paraffin oil	8012-95-1	TWA (Inhal-	5 mg/m3	ACGIH
		able particu-		
		late matter)		
fenbendazole	43210-67-9	TWA	100 µg/m3 (OEB	Internal
			2)	

:	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
	:

#### Personal protective equipment



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Respi	iratory protection	sure assessmer	: If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.					
Fil	ter type		culates and organic vapour type					
	ace protection	If the work envir mists or aerosol Wear a faceshie potential for dire aerosols.	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.					
	and body protection protection	: Work uniform or	laboratory coat.					
	aterial	: Chemical-resist	ant gloves					
Hygie	ene measures	eye flushing sys ing place. When using do Wash contamina The effective op engineering con appropriate deg	hemical is likely during typical use, provide stems and safety showers close to the work- not eat, drink or smoke. ated clothing before re-use. beration of a facility should include review of strols, proper personal protective equipment, owning and decontamination procedures, he monitoring, medical surveillance and the rative controls.					

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	pellets
Colour	:	No data available
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
Flammability (solid, gas)	:	No data available
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available

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	er explosion limit / Lower nability limit	:	No data available	e
	ur pressure	:	Not applicable	
Relat	ive vapour density	:	Not applicable	
Relat	ive density	:	No data available	e
Dens	ity	:	No data available	e
	bility(ies) /ater solubility	:	No data available	e
	ion coefficient: n- ol/water	:	Not applicable	
	ignition temperature	:	No data available	e
Deco	mposition temperature	:	No data available	e
Visco Vi	osity scosity, kinematic	:	Not applicable	
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	The substance o	r mixture is not classified as oxidizing.

Oxidizing properties	: The substance or mixture is not classified as oxidizing.	
Molecular weight	: No data available	
Particle characteristics Particle size	: No data available	

### **10. STABILITY AND REACTIVITY**

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products		None known. Oxidizing agents No hazardous decomposition products are known.

### 11. TOXICOLOGICAL INFORMATION

Exposure r	outes
------------	-------

: Skin contact Ingestion Eye contact

according to GB/T 16483 and GB/T 17519



# Fenbendazole (0.5%) Crumbles Formulation

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### Acute toxicity

Not classified based on available information.

### Components:

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
fenbendazole:		
Acute oral toxicity	:	LD50 (Rat): > 10,000 mg/kg
		LD50 (Mouse): > 10,000 mg/kg
Skin corrosion/irritation Not classified based on avai	lable	information.
Components:		
Paraffin oil: Species Result	:	Rabbit No skin irritation
<b>fenbendazole:</b> Species Result	:	Rabbit No skin irritation
Serious eye damage/eye ir Not classified based on avai		
Components:		
<b>Paraffin oil:</b> Species Result	:	Rabbit No eye irritation
fenbendazole:		
Species Result	:	Rabbit No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

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#### **Respiratory sensitisation**

Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### **Components:**

#### fenbendazole:

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
	Test Type: DNA Repair Result: negative
	Test Type: Chromosomal aberration Result: negative
	Test Type: in vitro assay Test system: mouse lymphoma cells Metabolic activation: Metabolic activation Result: equivocal

### Carcinogenicity

Not classified based on available information.

### Components:

## fenbendazole:

Species	: Mouse
Application Route	: oral (feed)
Exposure time	: 2 Years
NÓAEL	: 405 mg/kg body weight
Species Application Route Exposure time NOAEL Result	: negative
Species Application Route Exposure time NOAEL Result Target Organs	: Rat
Application Route	: Oral
Exposure time	: 2 Years
NÓAEL	: 5 mg/kg body weight
Result	: negative
Target Organs	: Lymph nodes, Liver

#### **Reproductive toxicity**

Not classified based on available information.

#### **Components:**

#### fenbendazole:

Effects on fertility : Test Type: Three-generation reproduction toxicity study Species: Rat

Application Route: oral (feed)

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		General Toxicit	y - Parent: NOAEL: 15 mg/kg body weigh
			.: 45 mg/kg body weight
Effect ment	s on foetal develop-	Result: Embryo	emale
		Species: Rabbi Application Rou	ite: Oral Toxicity: NOAEL: 25 mg/kg body weight
		Species: Rabbi Application Rou	
		Species: Rat Application Rou Developmental	oryo-foetal development ite: Oral Toxicity: NOAEL: 120 mg/kg body weigh cts on foetal development
Repro sessm	oductive toxicity - As- nent	: Some evidence fertility, based of	of adverse effects on sexual function and on animal experiments., Some evidence o 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 : Target Organs : Assessment :	Ingestion Liver, Stomach, Nervous system, Lymph nodes May cause damage to organs through prolonged or repeated exposure.
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#### **Repeated dose toxicity**

## **Components:**

#### Paraffin oil:

Species LOAEL	: F	Rat, female
LÖAEL	: 1	61 mg/kg
Application Route	: 1	ngestion
Exposure time	: 9	0 Days
-		-

## fenbendazole:

Species LOAEL Application Route Exposure time Target Organs	: Rat : 500 mg/kg : Oral : 2 Weeks	
Target Organs	: Kidney, Liver	

Species NOAEL Application Route Exposure time Remarks	:	Rat
NOAEL	:	> 2,500 mg/kg
Application Route	:	Oral
Exposure time	:	30 Days
Remarks	:	No significant adverse effects were reported

Species	: Rat
LÖAEL	: 1,600 mg/kg
Application Route	: Oral
Exposure time	: 90 Days
Target Organs	: Central nervous system
Species LOAEL Application Route Exposure time Target Organs Symptoms	: Tremors

Species NOAEL LOAEL	:	Dog
NOAEL	:	4 mg/kg
LOAEL	:	8 mg/kg
	:	6 Months
Target Organs	:	Stomach, Nervous 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

Version

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Expe	rience with human exp	osi	Ire	
Com	ponents:			
fenbe	endazole:			
Inges	stion	:	Symptoms: Rapi	d respiration, Salivation, anorexia, Diarrhoe
. ECOL	OGICAL INFORMATIO	N		
Ecot	oxicity			
Com	ponents:			
Para	ffin oil:			
Toxic	ity to fish	:	Exposure time: 9 Test substance:	mus maximus (turbot)): > 100 mg/l 6 h Water Accommodated Fraction on data from similar materials
	ity to daphnia and other tic invertebrates	:	Exposure time: 4 Test substance:	nsa (Calanoid copepod)): > 100 mg/l 8 h Water Accommodated Fraction on data from similar materials
Toxic plants	tity to algae/aquatic s	:	Exposure time: 7 Test substance:	ma costatum (marine diatom)): > 100 mg/l 2 h Water Accommodated Fraction on data from similar materials
			Exposure time: 7 Test substance:	nema costatum (marine diatom)): > 1 mg/l 2 h Water Accommodated Fraction on data from similar materials
	endazole:			
	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	nagna (Water flea)): 0.0088 mg/l 8 h <sup>r</sup> est Guideline 202
M-Fa icity)	ctor (Acute aquatic tox-	:	100	
Toxic	ity to daphnia and other tic invertebrates (Chron- icity)		Exposure time: 2	magna (Water flea)): 0.00113 mg/l 1 Days Fest Guideline 211
M-Fa toxici	ctor (Chronic aquatic ty)	:	10	

UN/ID No.

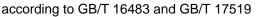
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No da <b>Bioa</b>	istence and degradabi ata available ccumulative potential	lity		
	ponents:			
Partit	ffin oil: ion coefficient: n- nol/water	:	log Pow: > 4 Remarks: Calcul	ation
Partit	endazole: ion coefficient: n- nol/water	:	log Pow: 3.32	
Mobi	lity in soil			
Com	ponents:			
Distri	endazole: bution among environ- al compartments	:	log Koc: 3.8 - 4.7 Method: FDA 3.0	
	<b>r adverse effects</b> ata available			
3. DISPO	OSAL CONSIDERATIO	NS		
Wast	osal methods e from residues aminated packaging	:	Dispose of in acc	f waste into sewer. cordance with local regulations. s should be taken to an approved waste han
				rcling or disposal. specified: Dispose of as unused product.
4. TRAN	SPORT INFORMATION	1		
Inter	national Regulations			
<b>UNR</b> UN n		:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID,
Labe	ing group	:	(fenbendazole) 9 III 9 yes	
	-DGR			

: UN 3077





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Class Packi Label Packi aircra Packi ger ai	ng group s ng instruction (cargo ft) ng instruction (passen- ircraft)	· · · · · · · · · · · · · · · · · · ·	(fenbendazole) 9 III Miscellaneous 956 956	azardous substance, solid, n.o.s.
	onmentally hazardous	:	yes	
UN n	<b>-Code</b> umber er shipping name	:	UN 3077 ENVIRONMENTA N.O.S. (fenbendazole)	ALLY HAZARDOUS SUBSTANCE, SOLID,
Label EmS	ng group		9 III 9 F-A, S-F yes	

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

Not applicable for product as supplied.

#### **National Regulations**

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(fenbendazole)
Class	:	9
Packing group	:	III
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 Chemicals

: This product is not listed in the catalogue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de-

according to GB/T 16483 and GB/T 17519



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				termination.	
lder 182	ntification of Major Hazard 18)	Inst	allations for Hazard	dous Chemicals (GB : Not listed	
Haz SAV	ardous Chemicals for Prio	ority	Management unde	er : Not listed	
Reg	ulations on Labour Prot	ecti	on in Workplaces	s where Toxic Substances are Used	
Cat	alogue of Highly Toxic Che	emio	cals	: Not listed	
	ulation of Environmenta Export of Toxic Chemic		anagement on the	e First Import of Chemicals and the Impor	t
	na Severely Restricted Tox Export	xic (	Chemicals for Impo	ort : Not listed	
Rec	gulation on the Administ	ratio	on of Precursor C	chemicals	
-	alogue and Classification of				
	igtze River Protection La				
	-	-	-	icals prohibited for inland river transport.	
AIC	•	auc :	not determined	the following inventories:	
DSI	-	:	not determined		
IEC	SC	:	not determined		
16. OTH					
Rev	rision Date	:	2024/09/28		
Fur	ther information				
	rces of key data used to ppile the Safety Data et	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen-ropa.eu/	
	ns where changes have be ument by two vertical lines		made to the previou	ous version are highlighted in the body of this	
Date	e format	:	yyyy/mm/dd		
Full	text of other abbreviation	ons			
ACO	GIH	:	USA. ACGIH Thre	eshold Limit Values (TLV)	
ACO	GIH / TWA	:	8-hour, time-weigh	hted average	



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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

#### 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.

CN / EN