

Versi 1.3	ion	Revision Date: 04/12/2018	SDS Number: 1161099-00004		Date of last issue: 10/31/2017 Date of first issue: 12/19/2016		
SEC	TION 1	. IDENTIFICATION					
	Product name		:	Fenbendazole (0.5%) Solid Formulation			
	Manufacturer or supplier's						
	Company name of supplier		:	Merck & Co., Inc			
	Address		:	2000 Galloping Hill Road Kenilworth - New Jersey - U.S.A. 07033			
	Telephone		:	908-740-4000			
	Telefax		:	908-735-1496			
	Emergency telephone		:	1-908-423-6000			
	E-mail address		:	EHSDATASTEW	ARD@merck.com		
	Recommended use of the			nical and restriction	ons on use		
	Recommended use		:	Veterinary produc	ct		

### SECTION 2. HAZARDS IDENTIFICATION

	lan	ce with the Hazardous Products Regulations
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
Reproductive toxicity	:	Category 2
Specific target organ systemic toxicity - single exposure	:	Category 3
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	<ul> <li>H315 Causes skin irritation.</li> <li>H319 Causes serious eye irritation.</li> <li>H335 May cause respiratory irritation.</li> <li>H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.</li> </ul>
Precautionary Statements	:	<b>Prevention:</b> P201 Obtain special instructions before use.



3	Revision Date: 04/12/2018	SDS Number: 1161099-00004	Date of last issue: 10/31/2017 Date of first issue: 12/19/2016
		and understood P261 Avoid bre P264 Wash ski P271 Use only	athing dust/ fume/ gas/ mist/ vapors/ spray. n thoroughly after handling. outdoors or in a well-ventilated area. tective gloves/ protective clothing/ eye protectio
		P304 + P340 + and keep comfor CENTER/docto P305 + P351 + for several minu to do. Continue P308 + P313 IF attention. P332 + P313 If tion. P337 + P313 If tion.	FON SKIN: Wash with plenty of water. P312 IF INHALED: Remove person to fresh air ortable for breathing. Call a POISON or if you feel unwell. P338 IF IN EYES: Rinse cautiously with water utes. Remove contact lenses, if present and eas rinsing. Fexposed or concerned: Get medical advice/ skin irritation occurs: Get medical advice/ atten- eye irritation persists: Get medical advice/ atten- ake off contaminated clothing and wash it before
		<b>Storage:</b> P405 Store lock	ked up.
		Disposal:	
		P501 Dispose c posal plant.	of contents/ container to an approved waste dis-

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

:

Substance / Mixture : Mixture

#### Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)		
Calcium	10031-30-8	>= 30 - < 50		
bis(dihydrogenorthophosphate) mon-				
ohydrate				
Calcium carbonate	471-34-1	>= 20 - < 30		
Paraffin oil	8012-95-1	>= 1 - < 5		
Fenbendazole	43210-67-9	>= 0.1 - < 1		

#### **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.



Versi 1.3	ion	Revision Date: 04/12/2018	-	0S Number: 61099-00004	Date of last issue: 10/31/2017 Date of first issue: 12/19/2016	
	lf inhale	ed	:	If inhaled, remove Get medical atten		
	In case of skin contact		:	<ul> <li>In case of contact, immediately flush skin with plenty of y for at least 15 minutes while removing contaminated clo 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		:	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.		
	lf swalle	owed	:	If swallowed, DO Get medical atten Rinse mouth thore		
		nportant symptoms ects, both acute and d	:	Causes skin irritat Causes serious e May cause respira Suspected of dam unborn child.	ye irritation.	
	Protect	ion of first-aiders	:	and use the recor	ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists.	
	Notes t	o physician		Treat symptomati	cally and supportively.	
SEC	TION 5	. FIRE-FIGHTING ME	ASL	IRES		
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical		
	Unsuita media	ble extinguishing	:	None known.		
	Specific fighting	c hazards during fire	:	concentrations, ar potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. bustion products may be a hazard to health.	
	Hazard ucts	ous combustion prod-	:	Oxides of phosph Metal oxides Carbon oxides Chlorine compour Sulfur oxides		
	Specific ods	c extinguishing meth-	:		measures that are appropriate to local cir- he surrounding environment.	



Versior 1.3	ı	Revision Date: 04/12/2018		S Number: 61099-00004	Date of last issue: 10/31/2017 Date of first issue: 12/19/2016	
					o cool unopened containers. ged containers from fire area if it is safe to do	
	Special protective equipment for fire-fighters		:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.		
SECTIO	ON 6.	ACCIDENTAL RELE	ASE	E MEASURES		
tiv	e equ	al precautions, protec- ipment and emer- rocedures	:		ective equipment. ing advice and personal protective mendations.	
En	iviron	mental precautions	:	Prevent further lea Retain and dispos	e environment must be avoided. akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages ed.	
	Methods and materials for containment and cleaning up		:	container for disper Avoid dispersal of with compressed Dust deposits sho surfaces, as these released into the a Local or national r disposal of this may employed in the c determine which r Sections 13 and 1	dust in the air (i.e., clearing dust surfaces	

### 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 and bonding, or inert atmospheres.
Local/Total ventilation	Use with local exhaust ventilation.
Advice on safe handling	<ul> <li>Do not get on skin or clothing.</li> <li>Do not breathe dust.</li> <li>Do not swallow.</li> <li>Do not get in eyes.</li> <li>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment</li> <li>Keep container tightly closed.</li> <li>Already sensitized individuals should consult their physician regarding working with respiratory irritants or sensitizers.</li> </ul>



Version 1.3	Revision Date: 04/12/2018		DS Number: 61099-00004	Date of last issue: 10/31/2017 Date of first issue: 12/19/2016
			Keep container c Keep away from Take precautiona	neration and accumulation. losed when not in use. heat and sources of ignition. ary measures against static discharges. /ent spills, waste and minimize release to the
Cond	itions for safe storage	:	Store locked up. Keep tightly close Keep in a cool, w	labeled containers. ed. rell-ventilated place. nce with the particular national regulations.
Mater	rials to avoid	:	No special restric	tions on storage with other products.

#### 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	TWAEV (to- tal dust)	10 mg/m³	CA QC OEL
		TWA	10 mg/m³ (Calcium car- bonate)	CA AB OEL
Paraffin oil	8012-95-1	TWA (Mist)	5 mg/m³	CA AB OEL
		STEL (Mist)	10 mg/m <sup>3</sup>	CA AB OEL
		TWAEV (Mist)	5 mg/m³	CA QC OEL
		STEV (Mist)	10 mg/m <sup>3</sup>	CA QC OEL
		TWA (Mist)	1 mg/m <sup>3</sup>	CA BC OEL
		TWA (Inhalable fraction)	5 mg/m³	ACGIH
Fenbendazole	43210-67-9	TWA	100 μg/m3 (OEB 2)	Internal

#### Ingredients with workplace control parameters

Engineering measures :	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	
Respiratory protection :	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

#### : Combined particulates and organic vapor type

Filter type



Version 1.3	Revision Date: 04/12/2018	SDS Number:Date of last issue: 10/31/20171161099-00004Date of first issue: 12/19/2016				
Material		: C	: Chemical-resistant gloves			
Eye protection		lf n V p	the work environists or aerosols Vear a faceshield	ses with side shields or goggles. nment or activity involves dusty conditions, , wear the appropriate goggles. d or other full face protection if there is a et contact to the face with dusts, mists, or		
Skin a	Skin and body protection		Vork uniform or I	aboratory coat.		
Hygiene measures		lc V T e a ir	ocated close to the When using do no Wash contaminate The effective ope Ingineering contri ppropriate dego	lushing systems and safety showers are he working place. ot eat, drink or smoke. ted clothing before re-use. rration of a facility should include review of rols, proper personal protective equipment, wning and decontamination procedures, e monitoring, medical surveillance and the tive controls.		

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	No data available
Odor	:	No data available
Odor 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	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available

### SAFETY DATA SHEET



## Fenbendazole (0.5%) Solid Formulation

Vers 1.3	sion	Revision Date: 04/12/2018		S Number: 61099-00004	Date of last issue: 10/31/2017 Date of first issue: 12/19/2016
	Vapor	pressure	:	No data available	e
	Relative vapor density		:	No data available	e
	Relativ	e density	:	No data available	9
	Density	y	:	No data available	e
	Solubil Wa	ity(ies) ter solubility	:	No data available	e
	Partitic octano	n coefficient: n- l/water	:	No data available	e
	Autoignition temperature Decomposition temperature		:	No data available	e
			:	No data available	e
	Viscos Viso	ity cosity, kinematic	:	No data available	e
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu Particle	ılar weight	:	No data available	
	Particle	5126	•	no data avallable	5

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	May form explosive dust-air mixture during processing, handling or other means.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials	:	None.
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



sion	Revision Date: 04/12/2018	SDS Number: 1161099-00004	Date of last issue: 10/31/2017 Date of first issue: 12/19/2016
Acute	e toxicity		
Not cl	assified based on av	ailable information.	
<u>Produ</u>	<u>uct:</u>		
Acute	oral toxicity	: Acute toxicity esti Method: Calculat	
Comp	oonents:		
Calciu	um bis(dihydrogend	rthophosphate) monoh	ydrate:
Acute	oral toxicity	: LD50 (Rat): 17,50	00 mg/kg
Acute	dermal toxicity	: LD50 (Rabbit): >	300 mg/kg
Calciu	um carbonate:		
Acute	oral toxicity		00 mg/kg est Guideline 420 substance or mixture has no acute oral t
Acute	inhalation toxicity		ĥ
Acute	dermal toxicity		2,000 mg/kg est Guideline 402 substance or mixture has no acute derm
Paraf	fin oil:		
Acute	oral toxicity	: LD50 (Rat): > 5,0	00 mg/kg
Acute	dermal toxicity	: LD50 (Rabbit): > Assessment: The toxicity	2,000 mg/kg substance or mixture has no acute derm
Fenbe	endazole:		
Acute	oral toxicity	: LD50 (Rat): > 10,	000 mg/kg
		LD50 (Mouse): >	10,000 mg/kg
	corrosion/irritation es skin irritation.		
<u>Comp</u>	oonents:		
Calciu	um bis(dihydrogend	rthophosphate) monoh	ydrate:
Resul		: Skin irritation	



/ersion I.3	Revision Date: 04/12/2018	SDS Number:Date of last issue: 10/31/20171161099-00004Date of first issue: 12/19/2016					
Calciu	ım carbonate:						
Specie Metho Result	d	<ul> <li>Rabbit</li> <li>OECD Test Guideline 404</li> <li>No skin irritation</li> </ul>					
Paraff	in oil:						
Specie Result		: Rabbit : No skin irritation					
Fenbe	endazole:						
Specie Result		: Rabbit : No skin irritation					
	us eye damage/eye es serious eye irritatio						
	onents:						
Calciu	ım bis(dihydrogend	rthophosphate) monohydrate:					
Specie Result		<ul> <li>Rabbit</li> <li>Irritation to eyes, reversing within 21 days</li> </ul>					
Calciu	ım carbonate:						
Specie		<ul> <li>Rabbit</li> <li>No eye irritation</li> <li>OECD Test Guideline 405</li> </ul>					
Result Metho							
Paraff	in oil:						
Specie Result		: Rabbit : No eye irritation					
Fenbe	endazole:						
Specie Result		: Rabbit : No eye irritation					
Respi	ratory or skin sensi	tization					
Skin s	sensitization						
Not cla	assified based on ava	ailable information.					
-	ratory sensitization assified based on ava						
Comp	onents:						
	ım carbonate:						
Test T		: Local lymph node assay (LLNA)					
	s of exposure	: Skin contact : Mouse					
Specie Metho		: OECD Test Guideline 429					
Result		: negative					
		9 / 18					



rsion	Revision Date: 04/12/2018	SDS Number: 1161099-00004	Date of last issue: 10/31/2017 Date of first issue: 12/19/2016			
	<b>cell mutagenicity</b> lassified based on availa	able information				
Components:						
Calci						
Geno	toxicity in vitro		acterial reverse mutation assay (AMES) D Test Guideline 471 ive			
Fenb	endazole:					
Geno	toxicity in vitro	: Test Type: Ba Result: negati	acterial reverse mutation assay (AMES) ive			
		Test Type: DI Result: negati	•			
		Test Type: Ch Result: negati	nromosomal aberration			
			mouse lymphoma cells ivation: Metabolic activation			
Carci	nogenicity					
_	lassified based on availa	able information.				
Com	<u>oonents:</u>					
Speci Applic	cation Route sure time EL	: Mouse : oral (feed) : 2 Years : 405 mg/kg bo : negative	dy weight			
Expos NOAE Resul	cation Route sure time EL	: Rat : Oral : 2 Years : 5 mg/kg body : negative : Lymph nodes	-			
Suspe	oductive toxicity ected of damaging fertili ponents:	ty. Suspected of da	amaging the unborn child.			
	um bis(dihydrogenortl	ophosphate) mo	nohvdrate:			
	ts on fetal development	• • •	nbryo-fetal development			

Effects on fetal development	:	Test Type: Embryo-fetal dev
		Species: Rat



Versio 1.3	'n	Revision Date: 04/12/2018		9S Number: 61099-00004	Date of last issue: 10/31/2017 Date of first issue: 12/19/2016
				Application Route Result: negative	: Ingestion
		n carbonate: on fertility	:		
E	ffects	on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD Te Result: negative	
F	enben	dazole:			
		on fertility	:	Species: Rat Application Route General Toxicity F	Parent: NOAEL: 15 mg/kg body weight 15 mg/kg body weight
E	ffects	on fetal development	:	Result: Embryotox	nale
				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.
	eprodi essme	uctive toxicity - As- nt	:	fertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal





rsion S	Revision Date: 04/12/2018	SDS Number: 1161099-00004	Date of last issue: 10/31/2017 Date of first issue: 12/19/2016				
стот	-single exposure						
May c	ause respiratory irrita	ation.					
<u>Comp</u>	oonents:						
Calcium bis(dihydrogenorthophosphate) monohydrate:							
Assessment : May cause respiratory irritation.							
STOT	-repeated exposure						
	assified based on av						
	oonents:						
-	endazole:						
Route	s of exposure	: Ingestion					
	t Organs		de, Stomach, Nervous system				
Asses	sment	: May cause dan exposure.	nage to organs through prolonged or repeate				
Repe	ated dose toxicity						
Comp	oonents:						
Calci	um carbonate:						
Speci		: Rat					
NOAE		: 1,000 mg/kg					
	ation Route	: Ingestion					
Expos	sure time	: 28 Days : OECD Test Gu	ideline 122				
Metho		. OLOD Test Ou					
Paraf	fin oil:						
Speci	es	: Rat, female					
LOAE		: 161 mg/kg					
	ation Route	: Ingestion					
Expos	sure time	: 90 Days					
Fenbe	endazole:						
Speci		: Rat					
LOAE		: 500 mg/kg					
	ation Route	: Oral : 2 Weeks					
	t Organs	: Kidney, Liver					
Speci	es	: Rat					
NOAE	EL	: > 2,500 mg/kg					
	ation Route	: Oral					
	sure time	: 30 Days	duoroo offecto ujere reporte -				
Rema	IIKS	: No significant a	dverse effects were reported				
Speci		: Rat					
LÖAE		: 1,600 mg/kg					
	ation Route	: Oral					
⊨xpos	sure time	: 90 Days					



Version 1.3	Revision Date: 04/12/2018	SDS Number: 1161099-00004		Date of last issue: 10/31/2017 Date of first issue: 12/19/2016
Targe Symp	t Organs toms		ntral nervous emors	system
Species NOAEL LOAEL Exposure time Target Organs		:8n :6N	ng/kg ng/kg 1onths	node, Nervous system

#### 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 (Oncorhynchus mykiss (rainbow trout)): > 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	ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
	NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l Exposure time: 72 h



Versi 1.3	ion	Revision Date: 04/12/2018		S Number: 61099-00004	Date of last issue: 10/31/2017 Date of first issue: 12/19/2016	
				Method: OECD Te Remarks: Based o	est Guideline 201 on data from similar materials	
	Toxicity to microorganis		<ul> <li>EC50: &gt; 1,000 mg/l</li> <li>Exposure time: 3 h</li> <li>Method: OECD Test Guideline 209</li> <li>Remarks: Based on data from similar materials</li> </ul>			
	Calciur	n carbonate:				
	Toxicity		:	LC50 (Oncorhync Exposure time: 96 Method: OECD Te		
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
	Toxicity	to algae	:	NOEC (Desmode: Exposure time: 72 Method: OECD Te		
	Toxicity	to microorganisms	:	EC50: > 1,000 mg Exposure time: 3 Method: OECD Te	h	
	Paraffi	n oil:				
	Toxicity	v to fish	:	Exposure time: 96 Test substance: V	nus maximus (turbot)): > 1,028 mg/l 5 h Vater Accommodated Fraction on data from similar materials	
		to daphnia and other invertebrates	:			
	Toxicity	r to algae	:	Exposure time: 72 Test substance: V	na costatum (marine diatom)): > 3,200 mg/l 2 h Vater Accommodated Fraction on data from similar materials	
				Exposure time: 72 Test substance: V	ema costatum (marine diatom)): 993 mg/l 2 h Vater Accommodated Fraction on data from similar materials	
	Fenber	ndazole:				
	Toxicity	v to fish	:	Exposure time: 96	hus mykiss (rainbow trout)): > 7.5 mg/l 5 h city at the limit of solubility.	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 0.008 mg/l 3 h	



Vers 1.3	sion	Revision Date: 04/12/2018		9S Number: 61099-00004	Date of last issue: 10/31/2017 Date of first issue: 12/19/2016		
				Method: OECD Te	est Guideline 202		
	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te			
	Persistence and degradabili		ty				
	Components:						
	Paraffin oil: Biodegradability		:	<ul> <li>Result: Readily biodegradable.</li> <li>Biodegradation: 82 %</li> <li>Exposure time: 24 d</li> <li>Method: OECD Test Guideline 301F</li> <li>Remarks: Based on data from similar materials</li> </ul>			
	Bioaccumulative potential						
	Components:						
	Fenbendazole:						
	Bioaccumulation		:	Species: Lepomis Bioconcentration f	macrochirus (Bluegill sunfish) factor (BCF): 240		
	Partition octanol	n coefficient: n- /water	:	log Pow: 2.3			
	Mobilit	y in soil					
	Compo	onents:					
	Fenber	ndazole:					
		tion among environ- compartments	:	log Koc: 4.37			
		adverse effects a available					
SEC	SECTION 13. DISPOSAL CONSID		DER	ATIONS			
	Dispos	al methods					
	-	from residues	:	Dispose of in acco	ordance with local regulations.		
	Contarr	ninated packaging	:	handling site for re	should be taken to an approved waste ecycling or disposal.		

#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

If not otherwise specified: Dispose of as unused product.



Version 1.3	Revision Date: 04/12/2018		9S Number: 61099-00004	Date of last issue: 10/31/2017 Date of first issue: 12/19/2016	
UN	<b>RTDG</b> number per shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID,	
Cla Pac Lab	king group	: : :	(Fenbendazole) 9 III 9		
UN, Pro Cla Pac Lab Pac airc	cking group bels cking instruction (cargo praft)	:	(Fenbendazole) 9 III Miscellaneous 956	nazardous substance, solid, n.o.s.	
ger	king instruction (passen- aircraft) <i>i</i> ronmentally hazardous	:	956 yes		
UN	<b>DG-Code</b> number per shipping name	:	UN 3077 ENVIRONMENTA N.O.S. (Fenbendazole)	ALLY HAZARDOUS SUBSTANCE, SOLID,	
Lab Em	king 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.				
Doi	mestic regulation				
	<b>G</b> number per shipping name	:	UN 3077 ENVIRONMENTA N.O.S. (Fenbendazole)	ALLY HAZARDOUS SUBSTANCE, SOLID,	
Cla Pac Lab	king group	:	9 III 9		

Labels:9ERG Code:171Marine pollutant:yes(Fenbendazole)

#### 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.



Version	Revision Date:	SDS Number:	Date of last issue: 10/31/2017
1.3	04/12/2018	1161099-00004	Date of first issue: 12/19/2016

#### 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 CA AB OEL	:	USA. ACGIH Threshold Limit Values (TLV) 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 QC OEL / TWAEV	:	Time-weighted average exposure value
CA QC OEL / STEV	:	Short-term exposure value

AICS - Australian Inventory of Chemical Substances; 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; CPR - Controlled Products Regulations; 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-



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Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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	:	Internal technical data, data from raw material SDSs, OECD
compile the Material Safety		eChem Portal search results and European Chemicals Agen-
Data Sheet		cy, http://echa.europa.eu/

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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.

CA / Z8