

Fenbendazole (10%) Liquid Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 23.02.2024
5.0	06.04.2024	3579700-00017	Date of first issue: 24.10.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier		
	Trade name	:	Fenbendazole (10%) Liquid Formulation
	Other means of identification	:	COOPERS PANACUR 100 ORAL ANTHELMINTIC FOR CATTLE AND HORSES (37088)
1.2	Relevant identified uses of th	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Veterinary product
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD
			Kilsheelan
			Clonmel Tipperary, IE
	Telephone	:	353-51-601000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 2	H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure.
Short-term (acute) aquatic hazard, Cate- gory 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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Haza	ard pictograms	:		¥
Sign	al word	:	Warning	•
Haza	ard statements	:		Suspected of damaging fertility. Suspected of damaging the unborn child.
			H373	May cause damage to organs through prolonged or repeated exposure.
				Very toxic to aquatic life with long lasting effects.
Prec	autionary statements	:	Prevention:	
				Obtain special instructions before use.
				Avoid release to the environment. Wear protective gloves/ protective clothing/ eye
				protection/ face protection.
			Response:	
			P308 + P313	3 IF exposed or concerned: Get medical advice/ attention.
			P391	Collect spillage.
			Storage:	
			P405	Store locked up.

Hazardous components which must be listed on the label:

fenbendazole

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No. Index-No.		(% w/w)
	Registration number		

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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ersion 0	Revision Date: 06.04.2024	SDS Number: 3579700-00017	Date of last issue: 23.02.2024 Date of first issue: 24.10.2018	
fenbe	endazole	43210-67-9 256-145-7	Repr. 2; H361fd STOT RE 2; H373 (Liver, Stomach, Nervous system, Lymph nodes) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 10	- < 20
	yl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 Acute toxicity esti- mate Acute oral toxicity: 1,620 mg/kg	1 - < 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	vice imm	use of accident or if you feel unwell, seek medical ad- nediately. Imptoms persist or in all cases of doubt seek medical
Protection of first-aiders	and use	responders should pay attention to self-protection, the recommended personal protective equipment e potential for exposure exists (see section 8).
If inhaled		d, remove to fresh air. lical attention.
In case of skin contact	of water Remove Get mec Wash cle	of contact, immediately flush skin with soap and plenty contaminated clothing and shoes. lical attention. othing before reuse. hly clean shoes before reuse.
In case of eye contact		es with water as a precaution. lical attention if irritation develops and persists.



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If swallowed			If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.					
4.2 Most	important symptoms a	nd e	effects, both acut	e and delayed				
Risk	S	:	unborn child.	May cause damage to organs through prolonged or repeated				
4.3 Indic	ation of any immediate	me	dical attention an	d special treatment needed				
Trea	atment	:	Treat symptomat	ically and supportively.				
SECTIO	N 5: Firefighting meas	sur	es					
5.1 Extin	guishing media							
Suita	able extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (Dry chemical					
Uns med	uitable extinguishing lia	: None known.						
5.2 Spec	ial hazards arising from	n the	e substance or m	ixture				
Spe fight	cific hazards during fire- ing	:	Exposure to com	bustion products may be a hazard to health.				
Haz ucts	ardous combustion prod-	:	Carbon oxides Nitrogen oxides Sulphur oxides Metal oxides	(NOx)				
5.3 Advi	ce for firefighters							
	cial protective equipment refighters	:		e, wear self-contained breathing apparatus. Ditective equipment.				
Spe ods	cific extinguishing meth-	:	cumstances and Use 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				

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions
- : Use personal protective equipment.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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				ling advice (see section 7) and personal pro- t recommendations (see section 8).						
6.2 Enviro	6.2 Environmental precautions									
Enviro	nmental precautions	Prevent Prevent barriers Retain a Local a	 Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. 							
6.3 Method	Is and material for co	ntainment a	nd cleani	ng up						
Metho	ds for cleaning up	For larg ment to be pum Clean u bent. Local of employe mine wh Section	e spills, p keep mat oed, store p remaining r national this mate ed in the c nich regula s 13 and 2	t absorbent material. rovide dyking or other appropriate contain- erial from spreading. If dyked material can e recovered material in appropriate container. ng materials from spill with suitable absor- regulations may apply to releases and dis- erial, as well as those materials and items cleanup of releases. You will need to deter- ations are applicable. 15 of this SDS provide information regarding ational requirements.						

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	: Do not breathe mist or vapours.
	Do not swallow.
	Avoid contact with eyes.
	Avoid prolonged or repeated contact with skin.
	Handle in accordance with good industrial hygiene and safety
	practice, based on the results of the workplace exposure as- sessment
	Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use. The effective operation of a facility should include review of
	engineering controls, proper personal protective equipment,

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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					wning and decontamination procedures, e monitoring, medical surveillance and the tive controls.
7.2 (Conditi	ons for safe storage,	inc	luding any incom	patibilities
Requirements for storage areas and containers		:		labelled containers. Store locked up. Store in the particular national regulations.	
Advice on common storage		:	Do not store with the following product types: Strong oxidizing agents Gases		
7.3 \$	•	c end use(s) c use(s)	:	No data available)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
fenbendazole	43210-67-9	TWA	100 µg/m3 (OEB 2)	Internal
Silicon dioxide	7631-86-9	OELV - 8 hrs (TWA) (Respira- ble dust)	2.4 mg/m3 (Silica)	IE OEL
		OELV - 8 hrs (TWA) (inhalable dust)	6 mg/m3 (Silica)	IE OEL

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Silicon dioxide	Workers	Inhalation	Long-term systemic effects	4 mg/m3
Benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	110 mg/m3
	Workers	Skin contact	Long-term systemic effects	8 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	40 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5.4 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	27 mg/m3
	Consumers	Skin contact	Long-term systemic effects	4 mg/kg bw/day

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			contact Acute systemic of 2	0 r

Consumers	Skin contact	Acute systemic ef-	20 mg/kg
		fects	bw/day
Consumers	Ingestion	Long-term systemic	4 mg/kg
	_	effects	bw/day
Consumers	Ingestion	Acute systemic ef-	20 mg/kg
		fects	bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
fenbendazole		0.0001 mg/l
Benzyl alcohol	Fresh water	1 mg/l
	Marine water	0.1 mg/l
	Intermittent use/release	2.3 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5.27 mg/kg
	Marine sediment	0.527 mg/kg
	Soil	0.456 mg/kg

8.2 Exposure controls

Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Laboratory operations do not require special containment.

Personal protective equipment

Eye/face protection	:	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.
Hand protection		
Material	:	Chemical-resistant gloves
Skin and body protection Respiratory protection		Work uniform or laboratory coat. If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 143
Filter type	:	Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	suspension
Colour	:	white
Odour	:	characteristic

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	Odour 7	Threshold	:	No data available	
	Melting	point/freezing point	:	< 2 °C	
	Initial bo range	oiling point and boiling	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Flash p	oint	:	No data available	
	Auto-igi	nition temperature	:	No data available	•
	Decom	position temperature	:	No data available	
	рН		:	6 - 7	
	Viscosit Visc	ty osity, dynamic	:	100 - 300 mPa.s	
	Visc	osity, kinematic	:	No data available	
	Solubili Wate	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Vapour	pressure	:	No data available	
	Relative	e density	:	No data available	
	Density		:	1.062 - 1.072 g/c	m³
	Relative	e vapour density	:	No data available	
		characteristics icle size	:	Not applicable	
9.2		formation		••••	
	Explosi	ves	:	Not explosive	

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O)	xidizing properties		The substance c	r mixture is not classified as oxidizing.	
	vaporation rate				
		•	No data available		
Mo	olecular weight	:	No data availabl	9	
SECTI	ION 10: Stability and	reactiv	vity		
	eactivity ot classified as a reactivit	y hazai	rd.		
	hemical stability able under normal condit	ions.			
	ossibility of hazardous	reactio			
Ha	azardous reactions	:	Can react with s	trong oxidizing agents.	
10.4 Co	onditions to avoid				
Co	onditions to avoid	:	None known.		
10.5 In	compatible materials				
Ma	aterials to avoid	:	Oxidizing agents		
10.6 H a No	azardous decompositio o hazardous decompositi	on proc	lucts ducts are known.		
10.6 H a No	azardous decompositio	on proc	lucts ducts are known.		
10.6 Ha No SECTI 11.1 In	azardous decompositio o hazardous decompositi ION 11: Toxicological formation on hazard cla	on proc on proc i infor	lucts ducts are known. mation as defined in Reg	Julation (EC) No 1272/2008	
10.6 Ha No SECTI 11.1 In Inf	azardous decompositio o hazardous decompositi ION 11: Toxicological	on proc on proc i infor	lucts ducts are known. mation as defined in Reg		
10.6 Ha No SECTI 11.1 In Inf ex	azardous decomposition o hazardous decomposition ION 11: Toxicological formation on hazard cla formation on likely routes	on proc on proc i infor	lucts ducts are known. mation as defined in Reg Inhalation Skin contact Ingestion		
10.6 Ha No SECTI 11.1 In Inf ex	azardous decomposition o hazardous decomposition ION 11: Toxicological formation on hazard cla formation on likely routes aposure	on proc on proc i inform asses a of :	lucts ducts are known. mation as defined in Reg Inhalation Skin contact Ingestion Eye contact		
10.6 Ha No SECTI 11.1 In Inf ex Ac	azardous decomposition o hazardous decomposition ION 11: Toxicological formation on hazard cla formation on likely routes posure	on proc on proc i inform asses a of :	lucts ducts are known. mation as defined in Reg Inhalation Skin contact Ingestion Eye contact		
10.6 Ha No SECTI 11.1 In Inf ex Ac No Co fer	azardous decomposition o hazardous decomposition ion 11: Toxicological formation on hazard cla formation on likely routes posure cute toxicity ot classified based on ava omponents: nbendazole:	on proc on proc i inform asses a of :	lucts ducts are known. mation as defined in Reg Inhalation Skin contact Ingestion Eye contact information.	Julation (EC) No 1272/2008	
10.6 Ha No SECTI 11.1 In Inf ex Ac No Co fer	azardous decomposition o hazardous decomposition ION 11: Toxicological formation on hazard cla formation on likely routes consure cute toxicity ot classified based on ava components:	on proc on proc i inform asses a of :	lucts ducts are known. mation as defined in Reg Inhalation Skin contact Ingestion Eye contact information.	Julation (EC) No 1272/2008	
10.6 Ha No SECTI 11.1 In Inf ex Ac No Co fer	azardous decomposition o hazardous decomposition ion 11: Toxicological formation on hazard cla formation on likely routes posure cute toxicity ot classified based on ava omponents: nbendazole:	on proc on proc i inform asses a of :	lucts ducts are known. mation as defined in Reg Inhalation Skin contact Ingestion Eye contact information.	Julation (EC) No 1272/2008	
10.6 Ha No SECTI 11.1 In ex Ac No Co fee	azardous decomposition o hazardous decomposition ion 11: Toxicological formation on hazard cla formation on likely routes posure cute toxicity ot classified based on ava omponents: nbendazole:	on proc on proc i infor asses a of :	lucts ducts are known. mation as defined in Reg Inhalation Skin contact Ingestion Eye contact information.	Julation (EC) No 1272/2008	
10.6 Ha No SECTI 11.1 In Infex Ac No Co fee	azardous decomposition o hazardous decomposition ion 11: Toxicological formation on hazard cla formation on likely routes posure cute toxicity ot classified based on avain omponents: nbendazole: cute oral toxicity	on proc on proc i infor asses a of :	lucts ducts are known. mation as defined in Reg Inhalation Skin contact Ingestion Eye contact information.	Julation (EC) No 1272/2008 000 mg/kg 10,000 mg/kg	

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			Exposure time: Test atmosphere Method: OECD	4 h e: dust/mist Test Guideline 403
	corrosion/irritation assified based on ava	ailable	information.	
Comp	oonents:			
fenbe	endazole:			
Speci Resul		:	Rabbit No skin irritation	
Benz	yl alcohol:			
Speci Metho Resul	bd	:	Rabbit OECD Test Guid No skin irritation	
	us eye damage/eye i assified based on ava			
Comp	oonents:			
fenbe	endazole:			
Speci Resul		:	Rabbit No eye irritation	
Benz	yl alcohol:			
Speci Metho Resul		:	Rabbit OECD Test Guid Irritation to eyes	deline 405 , reversing within 21 days
-				
-	iratory or skin sensi	tisatio	on	
-	sensitisation assified based on ava	ailable	information.	
-	iratory sensitisation assified based on ava		information.	
Comp	oonents:			
Test	sure routes es od		Maximisation Te Skin contact Guinea pig OECD Test Guie negative	

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	n cell mutagenicity lassified based on av	ailable information.	
<u>Com</u>	ponents:		
fenbe	endazole:		
Geno	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
		Test Type: Result: neg	DNA Repair ative
		Test Type: Result: neg	Chromosomal aberration ative
		Test syster	in vitro assay n: mouse lymphoma cells activation: Metabolic activation ivocal
II Benz	yl alcohol:		
	toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) ative
Geno	toxicity in vivo	cytogenetic Species: M	ouse Route: Intraperitoneal injection

Carcinogenicity

Not classified based on available information.

Components:

fenbendazole:

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

Benzyl alcohol:

Species

: Mouse

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		:	Ingestion 103 weeks OECD Test Guide negative	eline 451
-	ductive toxicity cted of damaging fertili	ity. S	Suspected of dama	ging the unborn child.
<u>Comp</u>	onents:			
	ndazole:			
Effects	s on fertility	:	Species: Rat Application Route General Toxicity -	Parent: NOAEL: 15 mg/kg body weight 45 mg/kg body weight
Effects ment	s on foetal develop-	:	Result: Embryoto	nale
			Species: Rabbit Application Route	oxicity: NOAEL: 25 mg/kg body weight
			Species: Rabbit Application Route	ro-foetal development : Oral oxicity: LOAEL: 63 mg/kg body weight
			Species: Rat Application Route Developmental To	ro-foetal development : Oral oxicity: NOAEL: 120 mg/kg body weight s on foetal development
Reprod sessm	ductive toxicity - As- ent	:	fertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal experi-
	r I alcohol: s on fertility	:	Test Type: Fertilit Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion

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I			Remarks: Based	on data from similar materials			
Effect ment	s on foetal develop-	:	Test Type: Embryo-foetal development Species: Mouse Application Route: Ingestion Result: negative				
	- single exposure assified based on avail	able i	nformation.				
STOT	- repeated exposure						
	ause damage to organ	s thro	ough prolonged or	repeated exposure.			
Comp	oonents:						
fenbe	ndazole:						
Targe	sure routes t Organs ssment	:		lervous system, Lymph nodes ge to organs through prolonged or repeated			
Repe	ated dose toxicity						
Comp	oonents:						
fenbe	ndazole:						
Expos		:	Rat 500 mg/kg Oral 2 Weeks Kidney, Liver				
	EL cation Route sure time	:	Rat > 2,500 mg/kg Oral 30 Days No significant adv	verse effects were reported			
Expos	L cation Route sure time t Organs	:	Rat 1,600 mg/kg Oral 90 Days Central nervous s Tremors	ystem			
Speci NOAE LOAE Expos Targe	EL	:	Dog 4 mg/kg 8 mg/kg 6 Months Stomach, Nervou	s system, Lymph nodes			

Benzyl alcohol:

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Expo Metho Aspin	EL cation Route sure time	: Rat : 1.072 mg/l : inhalation (dust/ : 28 Days : OECD Test Guid	
Com	ponents:		
	endazole: spiration toxicity classif	ication	
11.2 Infor	mation on other haza	irds	

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Components:

fenbendazole:

Ingestion

: Symptoms: Rapid respiration, Salivation, anorexia, Diarrhoea

SECTION 12: Ecological information

12.1 Toxicity

Components:

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
M-Factor (Acute aquatic tox- icity)	:	100
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC: 0.00113 mg/l Exposure time: 21 Days Species: Daphnia magna (Water flea)

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П			Method: OECD Test Guideline 211
M-Fact toxicity	or (Chronic aquatic	:	10
Benzy	l alcohol:		
Toxicit	y to fish	:	LC50 (Pimephales promelas (fathead minnow)): 460 mg/l Exposure time: 96 h
	y to daphnia and other invertebrates	:	EC50 (Daphnia magna (Water flea)): 230 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicit <u>;</u> plants	y to algae/aquatic	:	EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
			NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	y to daphnia and other c invertebrates (Chron- ity)		NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
12.2 Persis	tence and degradabil	ity	
Comp	onents:		
Benzy	l alcohol:		
Biodeg	ıradability	:	Result: Readily biodegradable. Biodegradation: 92 - 96 % Exposure time: 14 d
12.3 Bioaco	cumulative potential		
Comp	onents:		
fenber	ndazole:		
Partitio octano	n coefficient: n- I/water	:	log Pow: 3.32
Benzy	l alcohol:		
Partitio octano	n coefficient: n- I/water	:	log Pow: 1.05
12.4 Mobili	ty in soil		
Comp	onents:		
fenber	ndazole:		



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Distribution among environ- mental compartments		•	Koc: 3.8 - 4.7 thod: FDA 3.0		
12.5 Resu	llts of PBT and vPvB a	ssessm	ent		
Product: Assessment : This substance/mixture contains no components consider to be either persistent, bioaccumulative and toxic (PBT very persistent and very bioaccumulative (vPvB) at level 0.1% or higher.		stent, bioaccumulative and toxic (PBT), or			
12.6 Endo	ocrine disrupting prop	erties			
Prod	uct:				
Asses	ssment	: The substance/mixture does not contain components consid- ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.			
	r adverse effects ata available				
SECTION	SECTION 13: Disposal considerations				
13.1 Wast	e treatment methods				
Product : Dispo		•	ordance with local regulations. European Waste Catalogue, Waste Codes		

	•	According to the European Waste Catalogue, Waste Codes
		are not product specific, but application specific. Waste codes should be assigned by the user, preferably in
		discussion with the waste disposal authorities.
		Do not dispose of waste into sewer.
Contaminated packaging	:	Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number		
ADN	:	UN 3082
ADR	:	UN 3082
RID	:	UN 3082
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082

14.2 UN proper shipping name

: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Version 5.0	Revision Date: 06.04.2024		OS Number: 79700-00017	Date of last issue: 23.02.2024 Date of first issue: 24.10.2018				
			N.O.S. (fenbendazole)					
ADR		:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQU N.O.S. (fenbendazole)					
RID			ENVIRONMENT, N.O.S. (fenbendazole)	ALLY HAZARDOUS SUBSTANCE, LIQUID,				
IMDG			ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fenbendazole)					
ΙΑΤΑ		:	Environmentally (fenbendazole)	hazardous substance, liquid, n.o.s.				
14.3 Tran	sport hazard class(es)							
			Class	Subsidiary risks				
ADN		:	9					
ADR		:	9					
RID		:	9					
IMDO	6	:	9					
ΙΑΤΑ		: 9						
14.4 Pack	ing group							
ADN								
Pack	ing group	:	III					
	sification Code	:	M6					
Haza Labe	rd Identification Number	÷	90 9					
ADR								
Pack	ing group	:	III					
	sification Code rd Identification Number	÷	M6 90					
Labe		÷	9					
Tunn	el restriction code	:	(-)					
RID								
	ing group sification Code	÷	III M6					
	rd Identification Number	÷	90					
Labe	ls	:	9					
IMDO								
Packing group Labels		:	 9					
	Code	: F-A, S-F						
	(Cargo) ing instruction (cargo	:	964					

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	ng instruction (LQ) ng group	: Y964 : III : Miscellaneous	
Packi ger a Packi	(Passenger) ng instruction (passen- ircraft) ng instruction (LQ) ng group s	: 964 : Y964 : III : Miscellaneous	
14.5 Envi	ronmental hazards		
ADN Envir	onmentally hazardous	: yes	
ADR Envir	onmentally hazardous	: yes	
RID Envir	onmentally hazardous	: yes	
IMDG Marin	e pollutant	: yes	
	(Passenger) onmentally hazardous	: yes	
	(Cargo) onmentally hazardous	: yes	
-	ial precautions for use		

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.

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on	:	Conditions of restriction for the fol-
the market and use of certain dangerous substances,		lowing entries should be considered:
mixtures and articles (Annex XVII)		Number on list 75, 3

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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ersion .0	Revision Date: 06.04.2024	SDS Number: 3579700-00017			last issue: 23.02 first issue: 24.10	
	CH - Restrictions on th	e manufacture, placing	on			ner an entry is appli- cing on the market o
the m	arket and use of certa	in dangerous substance				
mixtu	res and articles (Anne	x XVII)				use this product as e contact your ven-
		Substances of Very Hig	gh :	:	Not applicable	
Regu	ern for Authorisation (. lation (EC) No 1005/2 the ozone layer	Article 59). 009 on substances that	de- :	:	Not applicable	
Regu		on persistent organic p	ollu- :	:	Not applicable	
Regu ment	lation (EU) No 649/20	12 of the European Parl erning the export and im		:	Not applicable	
REAC		s subject to authorisatio	n :	:	Not applicable	
Seve	so III: Directive 2012/1	8/EU of the European F		ent	t and of the Coun	cil on the control of
E1		ENVIRONMENT HAZARDS			Quantity 1 100 t	Quantity 2 200 t
Othe	r regulations:					
Take	•	5/EEC regarding materr		ec	tion or stricter na	tional regulations,

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements		
H302	:	Harmful if swallowed.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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H319		:	Causes serious e	
H332		:	Harmful if inhaled	-
H361fc	ł	:	Suspected of dan unborn child.	naging fertility. Suspected of damaging the
H373		:	May cause damage exposure if swalle	ge to organs through prolonged or repeated
H400		:	Very toxic to aqua	
H410			Very toxic to aquatic life with long lasting effects.	
Full te	xt of other abbreviation	ons		
Acute	Tox.	:	Acute toxicity	
Aquation	c Acute	:	Short-term (acute) aquatic hazard
Aquatio	c Chronic	:	Long-term (chron	c) aquatic hazard
Eye Irr		:	Eye irritation	, ,
Repr.		:	Reproductive toxi	city
STOT	RE	:	Specific target or	an toxicity - repeated exposure
IE OEL	-	:	Ireland. List of Ch	emical Agents and Carcinogens with Occu- E Limit Values - Code of Practice, Schedule 1
IE OEL	/ OELV - 8 hrs (TWA)	:	Occupational exp	osure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative



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Sourc	er information ces of key data used to ile the Safety Data t		I data, data from raw material SDSs, OECD earch results and European Chemicals Agen- uropa.eu/

Classification of the	mixture:	Classification procedure:	
Repr. 2	H361fd	Calculation method	
STOT RE 2	H373	Calculation method	
Aquatic Acute 1	H400	Calculation method	

H410

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

Calculation method

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.

IE / EN

Aquatic Chronic 1