

Version 5.0	Revision Date: 28.09.2024		S Number: 8619-00019	Date of last issue: 30.09.2023 Date of first issue: 10.02.2016
SECTIO	N 1: Identification of	the	substance/mix	ture and of the company/undertaking
1.1 Prod	uct identifier			
Trad	le name	:	Fenbendazole (20%) Liquid Formulation
1.2 Relev	ant identified uses of	the s	ubstance or mi	xture and uses advised against
	of the Sub- ce/Mixture	:	Veterinary prod	uct
Reco on u	ommended restrictions se	:	Not applicable	
1.3 Detai	Is of the supplier of th	e saf	ety data sheet	
Com	ipany	:	MSD 20 Spartan Roa 1619 Spartan,	
Tele	phone	:	+27119239300	
	ail address of person onsible for the SDS	:	EHSDATASTE	NARD@msd.com
1.4 Emer	gency telephone num	ber		
+1-9	08-423-6000			
SECTIO	N 2: Hazards identifi	catio	on	

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure, Category 2

Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1 H317: May cause an allergic skin reaction.
H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms

Labelling (REGULATION (EC) No 1272/2008)

: Warning

Signal word

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Hazaro	l statements	H361fd Susp ing the unbor H373 May repeated exp	cause damage to organs through prolonged or
Precau	itionary statements	P273 Avoid	in special instructions before use. I release to the environment. r protective gloves/ protective clothing/ eye protec- tection.
		Response: P308 + P313 attention. P333 + P313 advice/ atten P391 Colle	If skin irritation or rash occurs: Get medical

Hazardous components which must be listed on the label: fenbendazole Benzyl alcohol

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
fenbendazole	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	>= 20 - < 25



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Benzy	yl alcohol	100-51-6 202-859-9 603-057-00	aquatic toxicity): 10 Acute Tox. 4; H302 >= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

	General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
	Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
	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	:	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. Rinse mouth thoroughly with water.
4.2	Most important symptoms an	d e	ffects, both acute and delayed
	Risks	:	May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.
4 0 1	بريمة المعتبين المترجي والمترجين والمعالية والمترا		lead attention and an acial treatment needed

4.3 Indication of any immediate medical attention and special treatment needed

Treatment

: Treat symptomatically and supportively.



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SEC	CTION	5: Firefighting meas	sur	es	
5.1 I	Extingu	ishing media			
Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical		
	Unsuita media	able extinguishing	:	None known.	
5.2 \$	Special	hazards arising from	the	e substance or mi	xture
	Specific fighting	c hazards during fire-	:	Exposure to comb	pustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (I Sulphur oxides	NOx)
5.3	Advice	for firefighters			
	Special for firef	protective equipment ighters	:		e, wear self-contained breathing apparatus. tective equipment.
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged 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. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	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 Methods and material for containment and cleaning up

Methods for cleaning up	:	Soak up with inert absorbent material.
		For large spills, provide dyking or other appropriate contain-
		ment to keep material from spreading. If dyked material can



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		Clean up rema bent. Local or natior posal of this m employed in th mine which re Sections 13 ar	tore recovered material in appropriate container. aining materials from spill with suitable absor- nal regulations may apply to releases and dis- naterial, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. Ind 15 of this SDS provide information regarding r national 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 Advice on safe handling Hygiene measures	:	CONTROLS/PERSONAL PROTECTION section. Use only with adequate ventilation. Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Avoid contact with eyes. 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. 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. 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.
7.2 Conditions for safe storage,	incl	luding any incompatibilities
Requirements for storage areas and containers	:	Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.
Advice on common storage	:	Do not store with the following product types: Strong oxidizing agents Gases
7.3 Specific end use(s) Specific use(s)		No data available
Specific use(s)	•	NU UALA AVAIIANIE



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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

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
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
	Consumers	Skin contact	Acute systemic ef- fects	20 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	4 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	20 mg/kg bw/day

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

Substance name	Environmental Compartment	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.



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Pers	onal protective equip	ment	
Eye/	face protection	If the work mists or ae Wear a fac	y glasses with side shields or goggles. environment or activity involves dusty conditions, rosols, wear the appropriate goggles. eshield or other full face protection if there is a r direct contact to the face with dusts, mists, or
	Hand protection Material :		esistant gloves
	and body protection piratory protection	: If adequate sure assess	m or laboratory coat. local exhaust ventilation is not available or expo- sment demonstrates exposures outside the rec- guidelines, use respiratory protection.
Fi	ilter type		particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	suspension white to off-white No data available No data available
рН	:	6 - 8
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water	:	No data available No data available

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	Auto-ignition temperature		:	No data available	e		
	Decom	position temperature	:	No data available	e		
	Viscosity Viscosity, kinematic		:	No data availabl	e		
	Explos	ive properties	:	Not explosive			
	Oxidizing properties		:	: The substance or mixture is not classified as oxidizing.			
9.2 (Other iı	nformation					
	Flammability (liquids)		:	No data availabl	e		
	Molecular weight		:	No data available	e		
	Particle size		:	No data availabl	e		
SEC	CTION	10: Stability and re	activ	vity			

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of : Inhalation exposure Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Product:



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Acute oral toxicity		:	Acute toxicity e Method: Calcu	estimate: > 2.000 mg/kg lation method	
<u>Com</u>	ponents:				
fenb	endazole:				
Acute	e oral toxicity	:	LD50 (Rat): > 2	10.000 mg/kg	
			LD50 (Mouse):	> 10.000 mg/kg	
Benz	yl alcohol:				
Acute	e oral toxicity	:	LD50 (Rat): 1.2	200 mg/kg	
Acute inhalation toxicity		:	LC50 (Rat): > 5,4 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		
Not c	corrosion/irritation lassified based on av ponents:	ailable	·		
Not c	elassified based on av ponents: endazole: ies	railable : :	·	n	
Not c <u>Com</u> fenbo Spec Resu	elassified based on av ponents: endazole: ies ilt	vailable :	information.	n	
Not c <u>Com</u> fenbo Spec Resu Benz Spec	elassified based on av ponents: endazole: ies llt xyl alcohol: ies	vailable : :	information. Rabbit No skin irritatio Rabbit		
Not c Com fenbo Spec Resu Benz	elassified based on av ponents: endazole: ies lt yl alcohol: ies od	vailable : : :	information. Rabbit No skin irritatio	ideline 404	
Not of Com fenbo Spec Resu Benz Spec Meth Resu Seric	elassified based on av ponents: endazole: ies lt yl alcohol: ies od	: : : : :	information. Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio	ideline 404	
Not c Com fenbo Spec Resu Benz Spec Meth Resu Seric	elassified based on av ponents: endazole: ies ilt cyl alcohol: ies od ilt bus eye damage/eye	: : : : :	information. Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio	ideline 404	
Not of Com fendo Spec Resu Benz Spec Meth Resu Seric Not of Com	elassified based on av ponents: endazole: ies ilt cyl alcohol: ies od ilt bus eye damage/eye classified based on av	: : : : :	information. Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio	ideline 404	
Not of Com fendo Spec Resu Benz Spec Meth Resu Seric Not of Com	elassified based on av ponents: endazole: ies ilt cyl alcohol: ies od ilt bus eye damage/eye elassified based on av ponents: endazole: ies	: : : : :	information. Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio	iideline 404 n	
Not of Com fenbo Spec Resu Benz Spec Meth Resu Seric Not of Com fenbo	elassified based on av ponents: endazole: ies ilt cyl alcohol: ies od ilt bus eye damage/eye elassified based on av ponents: endazole: ies	: : : : :	information. Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio ion information.	iideline 404 n	
Not of Com fenbo Spec Resu Benz Spec Meth Resu Seric Not of Com fenbo	elassified based on av ponents: endazole: ies ilt cyl alcohol: ies od ilt pus eye damage/eye elassified based on av ponents: endazole: ies ilt cyl alcohol: ies	: : : : :	information. Rabbit No skin irritatio Rabbit OECD Test Gu No skin irritatio ion information.	n n	



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Resp	iratory or skin sens	itisatio	n	
	sensitisation cause an allergic skin	reactio	n.	
Resp	iratory sensitisatior	า		
Not c	lassified based on av	ailable	information.	
Com	ponents:			
Benz	yl alcohol:			
Test	Type sure routes ies	:	Human repeat Skin contact Humans positive	insult patch test (HRIPT)
Asse	ssment	:	Probability or e rate in humans	vidence of low to moderate skin sensitisation
	endazole: otoxicity in vitro	:	Test Type: Bac	terial reverse mutation assav (AMES)
	endazole: otoxicity in vitro	:	Test Type: Bac	terial reverse mutation assay (AMES)
			Result: negativ	e
			Test Type: DN/ Result: negativ	
			Test Type: Chr Result: negativ	omosomal aberration e
				ouse lymphoma cells ation: Metabolic activation
II Benz	yl alcohol:			
	otoxicity in vitro	:	Test Type: Bac Result: negativ	terial reverse mutation assay (AMES) e
Geno	otoxicity in vivo	:	cytogenetic ass Species: Mous	e ute: Intraperitoneal injection

Carcinogenicity

Not classified based on available information.

Result: negative

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Comp	onents:			
fenbe	ndazole:			
Specie		: Mou	se	
	ation Route		(feed)	
	ure time	: 2 Ye	. ,	
NÓAE		: 405	mg/kg bod	y weight
Result	t	: nega	ative	
Specie	es	: Rat		
	ation Route	: Oral		
	ure time	: 2 Ye		
NÓAE			g/kg body v	veight
Result		: nega		
Targe	t Organs	: Lym	ph nodes,	Liver
Benzy	/l alcohol:			
Specie	es	: Mou	se	
Applic	ation Route	: Inge	stion	
	ure time		weeks	
Metho				ideline 451
Result	t	: nega	ative	
Comp	cted of damaging fert conents: ndazole:	ility. Suspe	cted of dan	naging the unborn child.
Effects	s on fertility	Spec Appl Gen Ferti	cies: Rat lication Ro eral Toxicit	ee-generation reproduction toxicity study ute: oral (feed) y - Parent: NOAEL: 15 mg/kg body weight .: 45 mg/kg body weight on fertility
Effects	s on foetal develop-	Spec Appl Deve Res	ult: Embryc	female
		Spec Appl Deve	cies: Rabb lication Ro	ute: Oral Toxicity: NOAEL: 25 mg/kg body weight
		Spec Appl	cies: Rabb lication Ro	



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			Species: Rat Application Re Developmenta	nbryo-foetal development oute: Oral al Toxicity: NOAEL: 120 mg/kg body weight ects on foetal development
	Reproductive toxicity - As- sessment		fertility, based	ce of adverse effects on sexual function and I on animal experiments., Some evidence of ts on development, based on animal experi-
Benz	zyl alcohol:			
	cts on fertility	:	Species: Rat Application Re Result: negation	rtility/early embryonic development oute: Ingestion ive sed on data from similar materials
Effec	ets on foetal develop- t	:	Species: Mou	oute: Ingestion
<u>Com</u> fenb	cause damage to orgar ponents: endazole:	15 111		
Targ	osure routes et Organs essment	:		h, Nervous system, Lymph nodes amage to organs through prolonged or repeated
Rep	eated dose toxicity			
-	ponents:			
	endazole:			
Spec LOA Appli Expo	cies	:	Rat 500 mg/kg Oral 2 Weeks Kidney, Liver	
Spec NOA Appli Expo Rem	EL ication Route osure time		Rat > 2.500 mg/kg Oral 30 Days No significant	adverse effects were reported



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Expo Targe			Rat 1.600 mg/kg Oral 90 Days Central nervous s Tremors	system		
NOA LOAE Expo	Species NOAEL LOAEL Exposure time Target Organs		: Dog : 4 mg/kg : 8 mg/kg : 6 Months : Stomach, Nervous system, Lymph nodes			
Benz	yl alcohol:					
Spec NOA Appli Expo Meth	EL cation Route sure time	:	Rat 1,072 mg/l inhalation (dust/n 28 Days OECD Test Guid			
Not c	ration toxicity classified based on availa ponents:	able	information.			
fenb	endazole: spiration toxicity classific	atio	n			
Expe	erience with human exp	osi	ıre			
<u>Com</u>	ponents:					
fenbe Inges	endazole: stion	:	Symptoms: Rapid	d respiration, Salivation, anorexia, Diarrhoea		
SECTION	N 12: Ecological infor	rma	ition			
12.1 Toxi	citv					
	ponents:					
	endazole:					
	sity to fish	:	LC50 (Lepomis n Exposure time: 2	nacrochirus (Bluegill sunfish)): 0,009 mg/l 1 d		
	tity to daphnia and other tic invertebrates	:	Exposure time: 4	nagna (Water flea)): 0,0088 mg/l 8 h rest Guideline 202		
M-Fa icity)	ctor (Acute aquatic tox-	:	100			
Toxic	tity to daphnia and other	:	NOEC: 0,00113 r	ng/l		



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aquatic invertebrates (Chron- ic toxicity)			Exposure time: 2 Species: Daphnia Method: OECD T	a magna (Water flea)	
M-Fac toxicity	etor (Chronic aquatic y)	:	10		
Benzy	/l alcohol:				
	ty to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 6 h	
	ty to daphnia and other c invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T		
Toxicity to algae/aquatic plants		:	EC50 (Pseudokire mg/l Exposure time: 7/ Method: OECD T		
			NOEC (Pseudokirchneriella subcapitata (green algae)): mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
aquati	Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		NOEC: 51 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211		
12.2 Persis	stence and degradabil	lity			
Comp	onents:				
Benzyl alcohol: Biodegradability		:	Result: Readily bi Biodegradation: 4 Exposure time: 14	92 - 96 %	
12.3 Bioac	cumulative potential				
<u>Comp</u>	onents:				
Partitio	ndazole: on coefficient: n- ol/water	:	log Pow: 3,32		
	/l alcohol: on coefficient: n- ol/water	:	log Pow: 1,05		
12.4 Mobil	ity in soil				
<u>Comp</u>	onents:				
fenbe	ndazole:				



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Distribution among environ- mental compartments		•	c: 3,8 - 4,7 d: FDA 3.08		
12.5 Re	sults of PBT and vPvB a	ssessment			
	oduct: sessment	to be ei very pe	ubstance/mixture contains no components considered wither persistent, bioaccumulative and toxic (PBT), or ersistent and very bioaccumulative (vPvB) at levels of or higher.		
12.6 Otl	her adverse effects				
	oduct: docrine disrupting poten-	ered to REACH (EU) 20	bstance/mixture does not contain components consid- b have endocrine disrupting properties according to H Article 57(f) or Commission Delegated regulation 017/2100 or Commission Regulation (EU) 2018/605 at of 0.1% or higher.		
SECTIO	SECTION 13: Disposal considerations				
	aste treatment methods				
Pro	Product		e of in accordance with local regulations. ling to the European Waste Catalogue, Waste Codes t product specific, but application specific		

Wa dis Do Contaminated packaging : Em dlir	a not product specific, but application specific. aste codes should be assigned by the user, preferably in cussion with the waste disposal authorities. not dispose of waste into sewer. apply containers should be taken to an approved waste han- ng site for recycling or disposal. ot otherwise specified: Dispose of as unused product.
--	--

SECTION 14: Transport information

14.1 UN number ADN : UN 3082 ADR : UN 3082 RID : UN 3082 IMDG : UN 3082 ΙΑΤΑ : UN 3082 14.2 UN proper shipping name ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fenbendazole) ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 15/19



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			(fenbendazole)	
RID		:	ENVIRONMENT N.O.S. (fenbendazole)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
IMD	G	:	ENVIRONMENTA N.O.S. (fenbendazole)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
IAT	A	:	: Environmentally hazardous substance, liquid, n.o.s. (fenbendazole)	
14.3 Tra	nsport hazard class(es)			
			Class	Subsidiary risks
ADI	N	:	9	
ADI	र	:	9	
RID		:	9	
IMD	G	:	9	
IAT	A	:	9	
14.4 Pac	king group			
Clas Haz Lab Pac Clas Haz Lab Tun Pac Clas Haz Lab IMD Pac Lab	king group ssification Code card Identification Number els R king group ssification Code card Identification Number els nel restriction code ssification Code card Identification Number els PG king group		III M6 90 9 III M6 90 9 (-) III M6 90 9 9 III 9 9 9	
IAT Pac airc Pac	A (Cargo) king instruction (cargo raft) king instruction (LQ) king group	: : :	964 Y964 III Miscellaneous	
Pac	A (Passenger) king instruction (passen- aircraft)	:	964	



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		g instruction (LQ) g group	:	Y964 III Miscellaneous	
14.5 Environmental hazards					
	ADN Enviror	nmentally hazardous	:	yes	
	ADR Enviror	nmentally hazardous	:	yes	
	RID Enviror	nmentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes	
	•	Passenger) nmentally hazardous	:	yes	
		Cargo) nmentally hazardous	:	yes	

14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

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

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

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.



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H317 H319 H361fc H373 H400 H410	1	:	Causes serious e Suspected of dan unborn child. May cause dama exposure if swallo Very toxic to aqua	naging fertility. Suspected of damaging the ge to organs through prolonged or repeated owed.	
Full text of other abbreviations					
	c Acute c Chronic it. ens.		Acute toxicity Short-term (acute Long-term (chron Eye irritation Reproductive toxi Skin sensitisation Specific target org	ic) aquatic hazard city	

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; 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

Further information

Sources of key data used to compile the Safety Data Sheet

:

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/



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Class	ification of the mixt	ture:	Classification procedure:
Skin S	Sens. 1	H317	Calculation method
Repr.	2	H361fd	Calculation method
STOT	RE 2	H373	Calculation method
Aquati	ic Acute 1	H400	Calculation method
Aquati	ic Chronic 1	H410	Calculation method

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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.

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