

Versio 3.1	n Revision Date: 23.02.2024		S Number: 72211-00015	Date of last issue: 30.09.2023 Date of first issue: 24.10.2018	
SECTI	ON 1. IDENTIFICATION				
Pi	oduct name	:	Fenbendazole (1	0%) Liquid Formulation	
O	Other means of identification		COOPERS PANACUR 100 ORAL ANTHELMINTIC FOR CATTLE AND HORSES (37088)		
М	anufacturer or supplier's	deta	ils		
C	ompany	:	MSD		
Ad	Address		Talcahuano 750, 6th floor, Ciudad Autonoma Buenos Aires, Argentina C1013AAP		
Te	elephone	:	908-740-4000		
Er	mergency telephone	:	1-908-423-6000		
E	mail address	:	EHSDATASTEW	/ARD@msd.com	
R	ecommended use of the c	hem	ical and restriction	ons on use	
Recommended use Restrictions on use		:	Veterinary produ Not applicable	ict	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		Cotogon ()
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Liver, Stomach, Nervous system, Lymph nodes)
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
GHS label elements Hazard pictograms	:	
Signal Word	:	Warning



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		sure if swallow	h nodes) through prolonged or repeated expo- ved. ic to aquatic life with long lasting effects.		
Precautionary Statements :		Prevention: P201 Obtain s P202 Do not h and understoc P260 Do not b P273 Avoid re P280 Wear pr	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapors. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 		
		Response: P308 + P313 attention. P391 Collect s	F exposed or concerned: Get medical advice/		
		Storage: P405 Store lo	cked up.		
		Disposal: P501 Dispose disposal plant	of contents/ container to an approved waste		
Othe	r hazards which do n	ot result in classifica	ation		

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
fenbendazole	43210-67-9	>= 10 -< 20
Benzyl alcohol	100-51-6	>= 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.
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.



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If swallowed		Get medical attention if irritation develops and persists. If swallowed, DO NOT induce vomiting. Get medical attention.				
Most important symptoms and effects, both acute and		: Suspected of o unborn child.				
delayed		May cause dat exposure if sw	mage to organs through prolonged or repeated allowed.			
Protec	ction of first-aiders	 First Aid responders should pay attention to self-protect and use the recommended personal protective equipment when the potential for exposure exists (see section 8). 				
Notes	to physician		natically and supportively.			

SECTION 5. FIRE-FIGHTING MEASURES

	Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
	Unsuitable extinguishing media	:	None known.
	Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
	Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Metal oxides
-	Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
	Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : tive equipment and emer- gency procedures	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions :	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. 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.
Methods and materials for : containment and cleaning up	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate



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		absorbent. Local or nationa disposal of this employed in the determine which Sections 13 and	Clean up remaining materials from spill with suitable		
SECTION	7. HANDLING AND ST	TORAGE			
Techr	nical measures		g measures under EXPOSURE ERSONAL PROTECTION section.		
Local	Total ventilation		dequate ventilation.		
Advic	e on safe handling	: Do not breathe	•		
		Do not swallow Avoid contact w	-		
			d or repeated contact with skin.		
	Handle in accordance with goo		rdance with good industrial hygiene and safety on the results of the workplace exposure		
		Take care to pre environment.	event spills, waste and minimize release to the		
Condi	itions for safe storage	Store locked up	 Keep in properly labeled containers. Store locked up. Store in accordance with the particular national regulations. 		
Mater	ials to avoid	 Do not store with the following product types: Strong oxidizing agents Gases 			

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace of		15	-	
Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
fenbendazole	43210-67-9	TŴA	100 µg/m3 (OEB 2)	Internal
Engineering measures	technologies t less quick cor All engineerin design and op protect produc		controls and manufac ne concentrations (e.g ld be implemented by dance with GMP prine d the environment. require special conta	g., drip- facility ciples to
Personal protective equipme	ent			
Respiratory protection	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.			tside the

Ingredients with workplace control parameters



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Hand p	er type protection terial	: Particulates typ : Chemical-resis		
Eye 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. 		
Skin and body protection Hygiene measures		: If exposure to or eye flushing sy working place. When using do Wash contamin The effective of engineering co appropriate deg	or laboratory coat. Chemical is likely during typical use, provide stems and safety showers close to the not eat, drink or smoke. nated clothing before re-use. peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the trative controls.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Color	:	white
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	6 - 7
Melting point/freezing point	:	< 2 °C
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available

SAFETY DATA SHEET



Fenbendazole (10%) Liquid Formulation

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Relative vapor density	: No data available
Relative density	: No data available
Density	: 1,062 - 1,072 g/cm ³
Solubility(ies) Water solubility	: soluble
Partition coefficient: n-	: Not applicable
octanol/water Autoignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity Viscosity, dynamic	: 100 - 300 mPa.s
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties Molecular weight	The substance or mixture is not classified as oxidizing.No data available
Particle size	: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Not classified based on available information.

Components:

fenbendazole:

Acute oral toxicity

: LD50 (Rat): > 10.000 mg/kg



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			LD50 (Mouse):	> 10.000 mg/kg
Benz	yl alcohol:			
Acute	oral toxicity	:	LD50 (Rat): 1.6	20 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): > 4 Exposure time: Test atmospher Method: OECD	4 h
-	corrosion/irritation	ailahle	information	
	ponents:	allable		
	endazole:			
Speci Resu	ies	:	Rabbit No skin irritatior	n
Benz	yl alcohol:			
Speci Metho Resu	bc	:	Rabbit OECD Test Gu No skin irritatior	
	ous eye damage/eye			
	lassified based on ava ponents:	allable	information.	
	endazole:			
Speci	ies	:	Rabbit No eye irritatior	1
	-			
	yl alcohol:			
Speci Resu		:	Rabbit	s, reversing within 21 days
Metho		:	OECD Test Gu	
Resp	iratory or skin sensi	itizatio	on	
Skin	sensitization			
Not c	lassified based on ava	ailable	information.	
-	iratory sensitization lassified based on ava		information.	
Com	nonante:			

Components:

Benzyl alcohol:

Test Type Routes of exposure	:	Maximization Test
Routes of exposure	:	Skin contact



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Spec Meth Resu	od	:	Guinea pig OECD Test Guideline 406 negative			
	n cell mutagenicity lassified based on avai	lable ir	nformation.			
Com	ponents:					
fenb	endazole:					
Geno	otoxicity in vitro		Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)		
			Test Type: DNA I Result: negative	Repair		
			Test Type: Chron Result: negative	nosomal aberration		
				use lymphoma cells on: Metabolic activation		
II Benz	yl alcohol:					
	otoxicity in vitro		Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)		
	otoxicity in vivo		cytogenetic assa Species: Mouse	nalian erythrocyte micronucleus test (in vivo y) e: Intraperitoneal injection		
II Carc	inogenicity					
	lassified based on avai	lable ir	nformation.			
<u>Com</u>	ponents:					
fenb	endazole:					
Spec			Mouse			
Appii Expo	cation Route sure time		oral (feed) 2 Years			
NÓA	EL	:	405 mg/kg body v	weight		
Resu	lt	:	negative			
Spec			Rat			
	cation Route sure time		Oral 2 Years			
NÓA	NOAEL : 5 mg/kg body weight					
Resu	lt et Organs		negative	(or		
Targe	erorgans	÷	Lymph nodes, Liv			



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Specie Applic	cation Route sure time od	: : : : : : : : : : : : : : : : : : : :	Mouse Ingestion 103 weeks OECD Test Guid negative	eline 451
Suspe	oductive toxicity ected of damaging fertilit ponents:	ty. S	Suspected of dama	ging the unborn child.
	ndazole: s on fertility	:	Species: Rat Application Route General Toxicity	Parent: NOAEL: 15 mg/kg body weight 45 mg/kg body weight
Effect	s on fetal development	:	Species: Dog, fer Application Route Developmental T Result: Embryoto	nale
			Species: Rabbit Application Route	oxicity: NOAEL: 25 mg/kg body weight
			Species: Rabbit Application Route	yo-fetal development e: Oral oxicity: LOAEL: 63 mg/kg body weight
			Species: Rat Application Route Developmental T	yo-fetal development e: Oral oxicity: NOAEL: 120 mg/kg body weight s on fetal development.
Repro sessm	oductive toxicity - As- nent	:	fertility, based on	of adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal
	yl alcohol: s on fertility	:	Test Type: Fertili Species: Rat Application Route Result: negative	ty/early embryonic development



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Effec	ts on fetal development	: Test Spec Appl	Remarks: Based on data from similar materials Test Type: Embryo-fetal development Species: Mouse Application Route: Ingestion Result: negative				
Not c STO	F-single exposure lassified based on availa F-repeated exposure			ous system, Lymph nodes) through pro-			
longe	ed or repeated exposure			ous system, Lymph houes/ through pro-			
fenb Route Targe	endazole: es of exposure et Organs ssment	: May	, Stomach, N	lervous system, Lymph nodes ge to organs through prolonged or repeated			
Repe	eated dose toxicity						
<u>Com</u>	ponents:						
Spec LOAE Appli Expo		: Oral : 2 We	mg/kg eeks ey, Liver				
	EL cation Route sure time	: Oral : 30 D		erse effects were reported			
Expo	EL cation Route sure time et Organs	: Oral : 90 D	ral nervous s	ystem			
	EL	: Dog : 4 mg : 8 mg : 6 Mc : Ston	/kg onths	s system, Lymph nodes			
Benz Spec	yl alcohol: ies	: Rat					

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Ap Ex	NOAEL : Application Route : Exposure time : Method :		1,072 mg/l inhalation (dust/mist/fume) 28 Days OECD Test Guideline 412				
No	spiration toxicity ot classified based on availa	ble	information.				
fei	omponents: nbendazole: o aspiration toxicity classifica	atio	n				
	xperience with human expo components:	osı	ire				
	nbendazole: gestion	:	Symptoms: Rapic	l respiration, Salivation, anorexia, Diarrhea			
SECTIO	ON 12. ECOLOGICAL INFO	DRN	IATION				
Ec	cotoxicity						
<u>Cc</u>	omponents:						
fei	nbendazole:						
То	oxicity to fish	:	LC50 (Lepomis m Exposure time: 27	acrochirus (Bluegill sunfish)): 0,009 mg/l I d			
	oxicity to daphnia and other juatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T				
M- icit	Factor (Acute aquatic tox-	:	100				
To aq	bxicity to daphnia and other juatic invertebrates (Chron- toxicity)	:	NOEC (Daphnia r Exposure time: 2 [/] Method: OECD T				
	Factor (Chronic aquatic kicity)	:	10				
Be	enzyl alcohol:						
То	exicity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 460 mg/l 5 h			
	exicity to daphnia and other quatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T				
	oxicity to algae/aquatic ants	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 770 2 h			



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Ш			Method: OECD Te	est Guideline 201		
			NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te			
aqu	icity to daphnia and other atic invertebrates (Chron- xicity)	:	 NOEC (Daphnia magna (Water flea)): 51 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 			
Per	sistence and degradabili	ty				
<u>Cor</u>	nponents:					
	zyl alcohol: degradability	:	Result: Readily bid Biodegradation: 9 Exposure time: 14	92 - 96 %		
Bio	accumulative potential					
<u>Cor</u>	nponents:					
Par	bendazole: ition coefficient: n- inol/water	:	log Pow: 3,32			
Par	zyl alcohol: ition coefficient: n- inol/water	:	log Pow: 1,05			
Mol	bility in soil					
<u>Cor</u>	nponents:					
	pendazole:					
	ribution among environ- tal compartments	:	log Koc: 3,8 - 4,7 Method: FDA 3.08	3		
	er adverse effects data available					
SECTIO	N 13. DISPOSAL CONSI	DER	ATIONS			

Disposal methods

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



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SECT	SECTION 14. TRANSPORT INFORMATION								
I	nternational Regulations								
ι	JNRTDG JN number ^P roper shipping name	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, LIQUID,					
F	Class Packing group _abels Environmentally hazardous	:	(fenbendazole) 9 III 9 yes						
ι	ATA-DGR JN/ID No. ^S roper shipping name	:	UN 3082 Environmentally I (fenbendazole)	nazardous substance, liquid, n.o.s.					
F	Class Packing group Labels Packing instruction (cargo	:	9 III Miscellaneous 964						
F	aircraft) Packing instruction (passen ger aircraft) Environmentally hazardous		964 yes						
I (MDG-Code JN number Proper shipping name	:	UN 3082	ALLY HAZARDOUS SUBSTANCE, LIQUID,					
F L E	Class Packing group Labels EmS Code Marine pollutant	: :	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.

Special precautions for user

Registry.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legi	islatio	n specific for the substance of
mixture		
Argentina. Carcinogenic Substances and Agents	:	Not applicable

Control of precursors and essential chemicals for the	:	Not applicable



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preparation of drugs.							
The AICS		duct :	are reported in the not determined	ne following inventories:			
DSL		:	not determined				
IECS	SC	:	not determined				
SECTION 16. OTHER INFORMATION							
	sion Date format	:	23.02.2024 dd.mm.yyyy				
Sour	her information ces of key data used to bile the Material Safety Sheet	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/			

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recom-



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mendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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 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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