



Vers 3.0	ion	Revision Date: 06.07.2024		S Number: 346406-00006	Date of last issue: 06.04.2024 Date of first issue: 06.09.2022
	TION 1 Produc	: IDENTIFICATION t name	:	Fenbendazole (2	.50%) Liquid Formulation
Other means of identification		:	COOPERS PANACUR 25 ORAL ANTHELMINTIC FOR SHEEP CATTLE AND GOATS (37097)		
	Manufa	acturer or supplier's d	letai	ils	
	Compa	ny	:	Intervet Australia	Pty Limited (trading as MSD Animal Health)
	Addres	S	:	91-105 Harpin St Bendigo 3550, V	
	Telepho	one	:	1 800 033 461	
	Emerge	ency telephone number	· :	Poisons Informat	ion Centre: Phone 13 11 26
	E-mail	address	:	EHSDATASTEW	/ARD@msd.com
	Recom	mended use of the ch mended use tions on use		ical and restrictio Veterinary produ Not applicable	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Silicon dioxide	7631-86-9	< 10
fenbendazole	43210-67-9	< 3
Benzyl alcohol	100-51-6	< 10

SECTION 4. FIRST AID MEASURES



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	Genera	Il advice	:	vice immediately.	ident or if you feel unwell, seek medical ad- persist or in all cases of doubt seek medical			
	If inhale	ed	:	If inhaled, remove				
	In case of skin contact		:	Get medical attention. 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.				
	In case	of eye contact	:	Flush eyes with w	shoes before reuse. rater as a precaution. tion if irritation develops and persists.			
	lf swalle	owed	:	If swallowed, DO Get medical atten	NOT induce vomiting.			
		nportant symptoms ects, both acute and d	:	None known.				
		ion of first-aiders o physician	:	and use the recor when the potentia	ers should pay attention to self-protection, nmended personal protective equipment Il for exposure exists (see section 8). cally and supportively.			
		. FIREFIGHTING MEA	SU					
	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical				
	Unsuita media	able extinguishing	:	None known.				
		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 Metal oxides	NOx)			
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do			
	for firef	l protective equipment ighters em Code	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.			

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- : Use personal protective equipment.



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	quipment and emer- / procedures		ndling advice (see section 7) and personal pro- ant recommendations (see section 8).
Enviro	onmental precautions	Prevent further Prevent spread barriers). Retain and disp	o the environment. leakage or spillage if safe to do so. ing over a wide area (e.g. by containment or c bose of contaminated wash water. s should be advised if significant spillages ained.
	ods and materials for inment and cleaning up	For large spills, ment to keep m be pumped, sto Clean up remai bent. Local or nationa posal of this ma employed in the mine which reg Sections 13 and	ert absorbent material. provide dyking or other appropriate contain- laterial from spreading. If dyked material can be recovered material in appropriate container ning materials from spill with suitable absor- al regulations may apply to releases and dis- laterial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.

Technical measures Local/Total ventilation Advice on safe handling	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Use only with adequate ventilation. 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 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.
Conditions for safe storage	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types:





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Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters Components CAS-No. Value type Control parame-Basis (Form of ters / Permissible exposure) concentration AU OEL Silicon dioxide 7631-86-9 TWA (Res-2 mg/m3 pirable dust) fenbendazole 43210-67-9 TWA 100 µg/m3 (OEB Internal 2)

Engineering measures	nologies to control airborn quick connections). engineering controls should gn and operated in accord ect products, workers, and	controls and manufacturing the concentrations (e.g., drip- d be implemented by facility lance with GMP principles to I the environment. require special containment.
Personal protective equipment		
Respiratory protection Filter type	•	ilation is not available or expo- es exposures outside the rec- spiratory protection.
Hand protection Material	mical-resistant gloves	
Eye protection	s or aerosols, wear the ap ar a faceshield or other full ential for direct contact to the psols.	ivity involves dusty conditions, propriate goggles. face protection if there is a ne face with dusts, mists, or
Skin and body protection	k uniform or laboratory coa	at.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	off-white
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available





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	Initial bo range	iling point and boiling	:	No data available	1
	Flash po	pint	:	No data available	1
	Evapora	ation rate	:	No data available	
	Flamma	bility (solid, gas)	:	Not applicable	
	Flamma	bility (liquids)	:	No data available	
		xplosion limit / Upper pility limit	:	No data available	
		xplosion limit / Lower pility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	vapour density	:	No data available	·
	Relative	density	:	No data available	
	Density		:	No data available	1
	Solubilit Wate	y(ies) er solubility	:	No data available	1
	Partition octanol/	coefficient: n-	:	Not applicable	
		nition temperature	:	No data available	ı.
	Decomp	oosition temperature	:	No data available	4
	Viscosity Visco	y osity, kinematic	:	No data available	9
	Explosiv	ve properties	:	Not explosive	
	Oxidizin	g properties	:	The substance or	mixture is not classified as oxidizing.
	Molecula	ar weight	:	No data available	ı.
	Particle Particle	characteristics size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: Not classified as a reactivity hazard.





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	nical stability bility of hazardous read			ormal conditions. strong oxidizing agents.
Cond Incom	itions to avoid npatible materials rdous decomposition rcts	:	None known. Oxidizing agen No hazardous o	ts decomposition products are known.
ECTION	11. TOXICOLOGICAL	INFO	RMATION	
Expo	sure routes	; 	nhalation Skin contact ngestion Eye contact	
	e toxicity lassified based on avai	lable ir	formation.	
Com	oonents:			
Silico	on dioxide:			
Acute	oral toxicity		_D50 (Rat): > 5 Method: OECD	000 mg/kg Test Guideline 401
Acute	inhalation toxicity	 - /	C50 (Rat): > 2 Exposure time: Fest atmospher Assessment: Th ion toxicity	4 h
Acute	e dermal toxicity	: 1	_D50 (Rabbit): >	> 5,000 mg/kg
fenbe	endazole:			
Acute	oral toxicity	: 1	_D50 (Rat): > 10	0,000 mg/kg
		I	_D50 (Mouse): :	> 10,000 mg/kg
Benz	yl alcohol:			
Acute	oral toxicity	: 1	_D50 (Rat): 1,62	20 mg/kg
Acute	inhalation toxicity	-	LC50 (Rat): > 4. Exposure time: - Fest atmospher	4 h

Not classified based on available information.

Components:

Silicon dioxide:



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Spec	ies	: Rabbit	
Meth	od		Guideline 404
Resu	lit	: No skin irrita	tion
fenb	endazole:		
Spec		: Rabbit	
Resu	ılt	: No skin irrita	tion
Benz	yl alcohol:		
Spec		: Rabbit	
Meth			Guideline 404
Resu	llt	: No skin irrita	tion
Serio	ous eye damage/eye	irritation	
Not c	classified based on ava	ailable information.	
<u>Com</u>	ponents:		
Silic	on dioxide:		
Spec		: Rabbit	
Resu Meth		: No eye irritat	ion Guideline 405
Meth	ou	. OECD Test	
fenb	endazole:		
Spec		: Rabbit	
Resu	ılt	: No eye irritat	ion
Benz	yl alcohol:		
Spec	•	: Rabbit	
Resu			yes, reversing within 21 days
Meth	od	: OECD Test (Guideline 405
Resp	piratory or skin sensi	tisation	
Skin	sensitisation		
Not c	classified based on ava	ailable information.	
Resp	piratory sensitisation		
Not c	classified based on ava	ailable information.	
<u>Com</u>	ponents:		
Benz	yl alcohol:		
	Туре	: Maximisation	n Test
Expo Spec	sure routes ies	: Skin contact : Guinea pig	
Moth			Quideline 406

Method Result



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Chro	nic toxicity			
Not cl	a cell mutagenicity lassified based on av	ailable	information.	
	oonents:			
	on dioxide: toxicity in vitro	:		erial reverse mutation assay (AMES) Test Guideline 471
Geno	toxicity in vivo	:		
fenbe	endazole:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: DNA Result: negative	
			Test Type: Chro Result: negative	mosomal aberration
				ouse lymphoma cells tion: Metabolic activation
Benzy	yl alcohol:			
	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	:	cytogenetic assa Species: Mouse	e: Intraperitoneal injection
	nogenicity			
	lassified based on av	ailable	information.	
	oonents:			
Silico Speci	on dioxide:		Rat	
	cation Route	:	Ingestion	



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	Exposu Result	re time	:	103 weeks negative	
	f enben Species	dazole:	:	Mouse	
	Applica Exposu NOAEL Result		:	oral (feed) 2 Years 405 mg/kg body v negative	veight
	Species Applica Exposu NOAEL Result Target (tion Route re time		Rat Oral 2 Years 5 mg/kg body wei negative Lymph nodes, Liv	-
	Species	tion Route re time		Mouse Ingestion 103 weeks OECD Test Guide negative	eline 451
	-	luctive toxicity ssified based on availa	able	information.	
	Compo	nents:			
		dioxide: on foetal develop-	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-foetal development :: Ingestion
		dazole: on fertility	:	Species: Rat Application Route General Toxicity	Parent: NOAEL: 15 mg/kg body weight 45 mg/kg body weight
	Effects ment	on foetal develop-	:	Result: Embryoto	nale



				Date of first issue: 06.09.2022			
			Species: Rabbit Application Rout	Toxicity: NOAEL: 25 mg/kg body weight			
			Test Type: Embryo-foetal development Species: Rabbit Application Route: Oral Developmental Toxicity: LOAEL: 63 mg/kg body weight				
			Species: Rat Application Rout Developmental	ryo-foetal development e: Oral Foxicity: NOAEL: 120 mg/kg body weight ts on foetal development			
Reproc sessm	ductive toxicity - As- ent	:	fertility, based or	of adverse effects on sexual function and a animal experiments., Some evidence of on development, based on animal experi-			
Benzy	l alcohol:						
-	s on fertility	:	Species: Rat Application Rout Result: negative	ity/early embryonic development e: Ingestion I on data from similar materials			
Effects ment	s on foetal develop-	:	Test Type: Embr Species: Mouse Application Rout Result: negative	yo-foetal development e: Ingestion			
	- single exposure assified based on avail	able	information.				
STOT - repeated exposure Not classified based on available information.							

Components:

fenbendazole:

Exposure routes Target Organs	Ingestion Liver, Stomach, Nervous system, Lymph nodes
Assessment	May cause damage to organs through prolonged or repeated exposure.



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Repe	ated dose toxicity		
Com	oonents:		
Silico	on dioxide:		
Speci		: Rat	
NOAE		: 1.3 mg/m3	at/miat/fuma)
	cation Route sure time	: inhalation (du : 13 Weeks	svinisviune)
fenbe	endazole:		
Speci		: Rat	
LOAE Applic	:L cation Route	: 500 mg/kg : Oral	
	sure time	: 2 Weeks	
Targe	et Organs	: Kidney, Liver	
Speci		: Rat	
NOAE	L Cation Route	: > 2,500 mg/kg : Oral)
	sure time	: 30 Days	
Rema			adverse effects were reported
Speci		: Rat	
LOAE	L cation Route	: 1,600 mg/kg : Oral	
	sure time	: 90 Days	
Targe	et Organs	: Central nervo	us system
Symp	toms	: Tremors	
Speci		: Dog	
NOAE LOAE		: 4 mg/kg : 8 mg/kg	
	sure time	: 6 Months	
Targe	et Organs	: Stomach, Ner	vous system, Lymph nodes
Benz	yl alcohol:		
Speci		: Rat	
NOAE Applic	L cation Route	: 1.072 mg/l : inhalation (du	st/mist/fume)
	sure time	: 28 Days	
Metho		: OECD Test G	uideline 412

Aspiration toxicity

Not classified based on available information.

Components:

fenbendazole:

No aspiration toxicity classification





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Expe	rience with human exp	osı	ire	
Com	ponents:			
fenbe	endazole:			
Inges	tion		Symptoms: Rap	id respiration, Salivation, anorexia, Diarrhoe
ECTION	12. ECOLOGICAL INFO	OR	IATION	
Ecot	oxicity			
Com	ponents:			
Silico	on dioxide:			
Toxic	ity to fish	:	Exposure time:	io (zebra fish)): > 10,000 mg/l 96 h Test Guideline 203
	ity to daphnia and other tic invertebrates	:	Exposure time:	magna (Water flea)): > 1,000 mg/l 24 h Test Guideline 202
Toxic plants	ity to algae/aquatic s	:	mg/l Exposure time: Method: OECD	esmus subspicatus (green algae)): > 10,000 72 h Test Guideline 201 d on data from similar materials
			mg/l Exposure time: Method: OECD	lesmus subspicatus (green algae)): 10,000 72 h Test Guideline 201 d on data from similar materials
fenbe	endazole:			
Toxic	ity to fish	:	LC50 (Lepomis Exposure time: 2	macrochirus (Bluegill sunfish)): 0.009 mg/l 21 d
	ity to daphnia and other tic invertebrates	:	Exposure time:	magna (Water flea)): 0.0088 mg/l 48 h Test Guideline 202
	ity to daphnia and other tic invertebrates (Chron- icity)	:	Exposure time:	n magna (Water flea)): 0.00113 mg/l 21 Days Test Guideline 211
Benz	yl alcohol:			
	ity to fish	:	LC50 (Pimephal Exposure time:	es promelas (fathead minnow)): 460 mg/l 96 h
Toxic	ity to daphnia and other	:	EC50 (Daphnia	magna (Water flea)): 230 mg/l



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	aquatic invertebrates Toxicity to algae/aquatic plants			Exposure time: 48 Method: OECD Te	
			:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
		v to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Persistence and degradabil		ty		
	Components:				
	Benzyl	alcohol:			
	Biodeg	radability	:	Result: Readily bid Biodegradation: 9 Exposure time: 14	96 %
	Bioacc	umulative potential			
	Compo	onents:			
		dazole: n coefficient: n- /water	:	log Pow: 3.32	
	-	alcohol: n coefficient: n- /water	:	log Pow: 1.05	
	Mobilit	y in soil			
	Compo	onents:			
	Distribu	dazole: Ition among environ- compartments	:	log Koc: 3.8 - 4.7 Method: FDA 3.08	3
		adverse effects a available			



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SECTION 13. DISPOSAL CONSIDERATIONS

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 han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations		
UNRTDG UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (fenbendazole)
Class Packing group Labels Environmentally hazardous	::	9 III 9 yes
IATA-DGR UN/ID No. Proper shipping name	:	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (fenbendazole)
Class Packing group Labels Packing instruction (cargo aircraft)	: : :	9 III Miscellaneous 964
Packing instruction (passen- ger aircraft) Environmentally hazardous	:	964 yes
IMDG-Code UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class Packing group Labels EmS Code Marine pollutant	:	(fenbendazole) 9 III 9 F-A, S-F yes

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

Not applicable for product as supplied.

National Regulations

ADG





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UN	number	:	UN 3082	
Proper shipping name		:	ENVIRONMENTA N.O.S. (fenbendazole)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Cla	ISS	:	9	
Pad	cking group	:	III	
Lab	pels	:	9	
Haz	zchem Code	:	•3Z	
Env	vironmentally hazardous	:	yes	
-				

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.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mix- ture						
Therapeutic Goods (Poisons Standard) Instrument	:	Schedule 5 (Please use the original publication to check for specific uses, specific conditions or threshold limits that might apply for this chemical)				
Dest With a Mitcase in a Dest in an and						

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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

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

SECTION 16: ANY OTHER RELEVANT INFORMATION

Further information

Revision Date	:	06.07.2024
Sources of key data used to	:	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data		eChem Portal search results and European Chemicals Agen-
Sheet		cy, http://echa.europa.eu/

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

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Full text of other abbreviations

AU OEL

Australia. Workplace Exposure Standards for Airborne Contaminants.

AU OEL / TWA : Exposure standard - time weighted average

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

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.

AU / EN