

Versio 2.0	on	Revision Date: 23.02.2024		S Number: 72229-00015	Date of last issue: 30.09.2023 Date of first issue: 24.10.2018		
SECT	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION						
F	Produc	t name	:	Fenbendazole (1	0%) Liquid Formulation		
(Other means of identification		:	COOPERS PANACUR 100 ORAL ANTHELMINTIC FOR CATTLE AND HORSES (37088)			
Γ	Manufa	acturer or supplier's o	detai	ils			
(Compa	ny	:	MSD			
ŀ	Address		:	Rua Coronel Ber Cruzeiro - Sao P	nto Soares, 530 'aulo - Brazil CEP 12730-340		
٦	Telepho	one	:	908-740-4000			
E	Emergency telephone		:	1-908-423-6000			
E-mail address		:	EHSDATASTEWARD@msd.com				
	Recommended use of the ch						
Recommended use Restrictions on use		:	Veterinary produ Not applicable	ict			

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with ABNT NBR 14725 Standard 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 in accordance with ABNT NBR 14725 Standard Hazard pictograms :					
Signal Word	:	Warning			
Hazard Statements	:	H361fd Suspected of damaging fertility. Suspected of damag- ing the unborn child. H373 May cause damage to organs (Liver, Stomach, Nervous			



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		sure if swallow	n nodes) through prolonged or repeated expo- red. ic to aquatic life with long lasting effects.			
Precautionary Statements		 Prevention: P201 Obtain special instructions before use. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. 				
		Response: P308 + P313 I attention. P391 Collect s	F exposed or concerned: Get medical advice/ pillage.			
		Storage: P405 Store loc	sked up.			
Othe	r hazards which do no	ot result in classifica	tion			

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
fenbendazole	43210-67-9	Reproductive toxicity, Category 2 Specific target organ toxicity - repeated exposure (Oral) (Liver, Stomach, Nervous system, Lymph nodes), Category 2 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1	>= 10 -< 20
Benzyl alcohol	100-51-6	Acute toxicity (Oral), Category 4 Acute toxicity (Inhala- tion), Category 4 Eye irritation, Category 2A	>= 0,1 -< 1

SECTION 4. FIRST AID MEASURES

General advice

: In the case of accident or if you feel unwell, seek medical



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		advice immed When sympto advice.	diately. oms persist or in all cases of doubt seek medical				
lf inha	aled	,	If inhaled, remove to fresh air. Get medical attention.				
In cas	se of skin contact	: In case of col of water. Remove cont Get medical a Wash clothin	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 cas	se of eye contact	: Flush eyes w	ith water as a precaution. attention if irritation develops and persists.				
lf swa	llowed	: If swallowed, Get medical a	DO NOT induce vomiting.				
	important symptoms ffects, both acute and ed	: Suspected of unborn child.	damaging fertility. Suspected of damaging the amage to organs through prolonged or repeated				
Prote	ction of first-aiders	: First Aid resp and use the r	onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists (see section 8).				
Notes	s to physician		matically 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- :	:	Use personal protective equipment.
tive equipment and emer-		Follow safe handling advice (see section 7) and personal
gency procedures		protective equipment recommendations (see section 8).

SAFETY DATA SHEET



Fenbendazole (10%) Liquid Formulation

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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		:	For large spills, pro- containment to kee can be pumped, so container. Clean up remaining absorbent. Local or national no disposal of this mail employed in the co determine which mails Sections 13 and 1	t absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding tional requirements.		

SECTION 7. HANDLING AND STORAGE

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 vapors.
		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
		assessment 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 labeled containers.
		Store locked up.
Materials to avoid		Store in accordance with the particular national regulations. Do not store with the following product types:
	•	Strong oxidizing agents
		Gases



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
fenbendazole	43210-67-9	TWA	100 µg/m3 (OEB 2)	Internal	
Engineering measures	technologie less quick c All engineer design and protect prod	s to control airboi onnections). ing controls shou operated in acco lucts, workers, ar	controls and manufact re concentrations (e. Id be implemented by rdance with GMP print and the environment.	g., drip- r facility ciples to	
Personal protective equipm	ent				
Respiratory protection	exposure as recommend	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.			
Filter type Hand protection	: Particulates	type			
Material	: Chemical-re	sistant gloves			
Eye protection	If the work e mists or aer Wear a face	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		m or laboratory c	oat.		

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

SAFETY DATA SHEET



Fenbendazole (10%) Liquid Formulation

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	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
	Lower e flamma	explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Relative	e density	:	No data available	
	Density	,	:	1,062 - 1,072 g/ci	m ³
	Solubili Wat	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n-	:	Not applicable	
		hition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty :osity, dynamic	:	100 - 300 mPa.s	
	Visc	osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle	size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition	:	No hazardous decomposition products are known.
products		

SECTION 11. TOXICOLOGICAL INFORMATION



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	Inform expos	nation on likely routes of sure	:	Inhalation Skin contact Ingestion Eye contact	
		e toxicity assified based on availa	ble	information.	
	Comp	oonents:			
	fenbe	ndazole:			
	Acute	oral toxicity	:	LD50 (Rat): > 10.0 LD50 (Mouse): > 7	
				, , , , , , , , , , , , , , , , , , ,	5.5
	-	yl alcohol:			
	Acute	oral toxicity	:	LD50 (Rat): 1.620	mg/kg
	Acute	inhalation toxicity	:	LC50 (Rat): > 4,17 Exposure time: 4 I Test atmosphere: Method: OECD Te	n dust/mist
	Not cl	corrosion/irritation assified based on availal ponents:	ble	information.	
	fenbe	ndazole:			
	Specie Resul		:	Rabbit No skin irritation	
	Benzy	yl alcohol:			
I	Speci	es	:	Rabbit	
	Metho Resul		:	OECD Test Guide No skin irritation	line 404
		us eye damage/eye irri assified based on availa			
	<u>Comp</u>	oonents:			
_	_	ndazole:			
	Speci Resul		:	Rabbit No eye irritation	
	Benzy	yl alcohol:			
I	Speci		:	Rabbit	en angle a mitthig O4 dama
	Resul [®] Metho		:	Irritation to eyes, r OECD Test Guide	eversing within 21 days line 405



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Resp	iratory or skin sens	itization						
-	sensitization lassified based on av	ailable information.						
-	Respiratory sensitization Not classified based on available information. Components:							
<u>Com</u>								
Benz	yl alcohol:							
Test Route Speci Metho Resul	es of exposure es od	: Maximization : Skin contact : Guinea pig : OECD Test (: negative						
	a cell mutagenicity lassified based on av	ailable information.						
Com	oonents:							
fenbe	endazole:							
Geno	toxicity in vitro	: Test Type: B Result: negat	acterial reverse mutation assay (AMES) tive					
		Test Type: D Result: nega						
		Test Type: C Result: nega	hromosomal aberration tive					
			mouse lymphoma cells tivation: Metabolic activation					
Benz	yl alcohol:							
	toxicity in vitro	: Test Type: B Result: negat	acterial reverse mutation assay (AMES) tive					
Geno	toxicity in vivo	cytogenetic a Species: Mou	use coute: Intraperitoneal injection					
	nogenicity lassified based on av	ailable information.						
Com	oonents:							
fenbe	endazole:	Mours						
Speci	es	: Mouse						



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App Exp NO/ Res		: : :	oral (feed) 2 Years 405 mg/kg body v negative	weight
Exp NO/ Res	lication Route osure time AEL	:	Rat Oral 2 Years 5 mg/kg body we negative Lymph nodes, Liv	-
Spe App	lication Route osure time hod	:	Mouse Ingestion 103 weeks OECD Test Guide negative	eline 451
Sus	productive toxicity pected of damaging fertilit nponents:	y. S	suspected of dama	ging the unborn child.
	bendazole: cts on fertility	:	Species: Rat Application Route General Toxicity	Parent: NOAEL: 15 mg/kg body weight 45 mg/kg body weight
Effe	cts on fetal development	:	Result: Embryoto	nale
			Species: Rabbit Application Route	oxicity: NOAEL: 25 mg/kg body weight
			Species: Rabbit Application Route	/o-fetal development e: Oral oxicity: LOAEL: 63 mg/kg body weight
			Species: Rat Application Route	vo-fetal development e: Oral oxicity: NOAEL: 120 mg/kg body weight



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Reproc sessme	luctive toxicity - As- ent	:	Some evidence or fertility, based on	on fetal development. f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal
Benzy	alcohol:			
Effects	on fertility	:	Species: Rat Application Route Result: negative	y/early embryonic development : Ingestion on data from similar materials
Effects	on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	o-fetal development : Ingestion

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs (Liver, Stomach, Nervous system, Lymph nodes) through prolonged or repeated exposure if swallowed.

Components:

fenbendazole:

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

Repeated dose toxicity

Components:

fenbendazole:

Species	: Rat
LOAEL	: 500 mg/kg
Application Route	: Oral
Exposure time	: 2 Weeks
Target Organs	: Kidney, Liver
Species	: Rat
NOAEL	: > 2.500 mg/kg
Application Route	: Oral
Exposure time	: 30 Days
Remarks	: No significant adverse effects were reported
Species	: Rat
LOAEL	: 1.600 mg/kg
Application Route	: Oral



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Exposure time Target Organs Symptoms		:	 90 Days Central nervous system Tremors 					
	cies EL EL osure time et Organs	:	Dog 4 mg/kg 8 mg/kg 6 Months Stomach, Nervous	s system, Lymph nodes				
Spec NOA	EL ication Route osure time	:	Rat 1,072 mg/l inhalation (dust/m 28 Days OECD Test Guide					
Not o <u>Com</u> fenb	Aspiration toxicity Not classified based on available information. Components: fenbendazole:							
	spiration toxicity classifica							
<u>Com</u> fenb	erience with human exp ponents: endazole:	οςι						
<u>Com</u> fenb ∭Inges	ponents: endazole:	:	Symptoms: Rapid	respiration, Salivation, anorexia, Diarrhea				
Com fenb llinge: SECTION Ecot	ponents: endazole: stion	:	Symptoms: Rapid	respiration, Salivation, anorexia, Diarrhea				
Com fenb llinge: SECTION Ecot <u>Com</u> fenb	endazole: stion I 12. ECOLOGICAL INFO	:	Symptoms: Rapid	acrochirus (Bluegill sunfish)): 0,009 mg/l				
Com fenb Ilnge: SECTION Ecot Com fenb Toxid	endazole: stion I 12. ECOLOGICAL INFO coxicity ponents: endazole:	:	Symptoms: Rapid IATION LC50 (Lepomis m Exposure time: 21	acrochirus (Bluegill sunfish)): 0,009 mg/l l d lagna (Water flea)): 0,0088 mg/l 3 h				
Com fenb SECTION Ecot Com fenb Toxid aqua M-Fa	endazole: stion I 12. ECOLOGICAL INFO coxicity eponents: endazole: city to fish	:	Symptoms: Rapid IATION LC50 (Lepomis m Exposure time: 21 EC50 (Daphnia m Exposure time: 48	acrochirus (Bluegill sunfish)): 0,009 mg/l l d lagna (Water flea)): 0,0088 mg/l 3 h				
Com fenb Ilnge: SECTION Ecot Com fenb Toxic aqua M-Fa icity) Toxic aqua	endazole: stion I 12. ECOLOGICAL INFO coxicity eponents: endazole: city to fish city to daphnia and other tic invertebrates	: DRM :	Symptoms: Rapid MATION LC50 (Lepomis m Exposure time: 21 EC50 (Daphnia m Exposure time: 48 Method: OECD To 100	nacrochirus (Bluegill sunfish)): 0,009 mg/l l d hagna (Water flea)): 0,0088 mg/l 3 h est Guideline 202 nagna (Water flea)): 0,00113 mg/l l Days				



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I	toxicity)				
		alcohol:			
	Toxicity		:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): 460 mg/l h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokirc mg/l Exposure time: 72 Method: OECD Te	
				NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
		v to daphnia and other invertebrates (Chron- ty)	:	NOEC (Daphnia m Exposure time: 21 Method: OECD Te	
	Persist	ence and degradabili	ty		
	Compo	onents:			
	Benzyl	alcohol:			
	Biodegi	radability	:	Result: Readily bio Biodegradation: 9 Exposure time: 14	2 - 96 %
	Bioacc	umulative potential			
	Compo	onents:			
I	_	dazole: n coefficient: n- /water	:	log Pow: 3,32	
	-	alcohol: n coefficient: n- /water	:	log Pow: 1,05	
	Mobilit	y in soil			
	Compo	onents:			
	fenben	dazole:			
		ition among environ- compartments	:	log Koc: 3,8 - 4,7 Method: FDA 3.08	
	Other a	adverse effects			
	No data	a available			



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Disp	osal methods		
Wast	e from residues		of waste into sewer. ccordance 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.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
Class		(fenbendazole) 9
Packing group	:	9 III
Labels	:	9
Environmentally hazardous	:	yes
•	•	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (fenbendazole)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo	:	964
aircraft)		
Packing instruction (passen-	:	964
ger aircraft)		
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.
		(fenbendazole)
Class	:	9
Packing group	÷	
	÷	9
EmS Code	÷	F-A, S-F
Marine pollutant	•	yes
Transport in bulk according	to	Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as s	sup	plied.
Domestic regulation		

ANTT

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.O.S.



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Label	ng group	(fenbendazole) : 9 : III : 9 : 90		
	ial precautions for use			
•	•			
based Sheet	d upon the properties of	the unpackaged mate cations may vary by m	or informational purposes only, and solely rial as it is described within this Safety Data node of transportation, package sizes, and	
SECTION	SECTION 15. REGULATORY INFORMATION			
Safet mixtu		nental regulations/leg	gislation specific for the substance or	
Natio	nal List of Carcinogenic	Agents for Humans -	: Not applicable	

(LINACH)		
Brazil. List of chemicals controlled by the Federal Police	:	Not applicable

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

SECTION 16. OTHER INFORMATION

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Further information

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

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 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



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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 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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