



Fenbendazole (0.5%) Pellets Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 09/30/2023
1.7	09/28/2024	7987911-00008	Date of first issue: 03/22/2021

SECTION 1. IDENTIFICATION

Product name	:	Fenbendazole (0.5%) Pellets Formulation
Other means of identification	:	No data available

Manufacturer or supplier's details

Company name of supplier	:	Merck & Co., Inc
Address	:	126 E. Lincoln Avenue
		Rahway, New Jersey U.S.A. 07065
Telephone	:	908-740-4000
Emergency telephone	:	1-908-423-6000
E-mail address	:	EHSDATASTEWARD@merck.com

Recommended use of the chemical and restrictions on use

Recommended use	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in acc	ordance with the Hazardous Products Regulations
Poproductivo toxicity	: Catagory 2

Reproductive toxicity	:	Category 2

GHS label elements

Hazard pictograms



Signal Word	:	Warning
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Hazard Statements : H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

Precautionary Statements

Prevention:

:

P201 Obtain special instructions before use.P202 Do not handle until all safety precautions have been read and understood.P280 Wear protective gloves, protective clothing, eye protection and face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.



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Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
White mineral oil (pe- troleum)	Paraffinum liquidum	8042-47-5	2.075
fenbendazole	No data availa- ble	43210-67-9	0.5

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	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	Suspected of damaging fertility. Suspected of damaging the unborn child. Contact with dust can cause mechanical irritation or drying of the skin.
Protection of first-aiders	:	Dust contact with the eyes can lead to mechanical irritation. 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).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical



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	Unsuita media	able extinguishing	:	None known.	
	Specifi fighting	c hazards during fire I	:	Exposure to comb	oustion products may be a hazard to health.
	Hazaro ucts	lous combustion prod-	:	Carbon oxides Silicon oxides	
	Specifi 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
		l protective equipment fighters	:		e, wear self-contained breathing apparatus. rective equipment.
SE	CTION 6	. ACCIDENTAL RELE	AS	E MEASURES	
	tive eq	al precautions, protec- uipment and emer- procedures	:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
	Enviror	nmental precautions	:	Retain and dispos	akage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages

Methods and materials for containment and cleaning up	 Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
	Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion.
		Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.



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	al/Total ventilation ce on safe handling	: Do not breathe Do not swallow Avoid contact Avoid prolong Handle in acco practice, base assessment Minimize dust Keep containe Keep away fro Take precautio	Ν.
Con	ditions for safe storage		rly labeled containers. dance with the particular national regulations.
Mate	erials to avoid		vith the following product types:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

	-	1		
Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
White mineral oil (petroleum)	8042-47-5	TWA (Mist)	5 mg/m³	CA AB OEL
		STEL (Mist)	10 mg/m ³	CA AB OEL
		TWAEV (Mist	5 mg/m ³	CA QC OEL
		- Inhalable	U U	
		dust)		
		TWA (Mist)	1 mg/m ³	CA BC OEL
		TWA	5 mg/m ³	ACGIH
		(Inhalable	-	
		particulate		
		matter)		
fenbendazole	43210-67-9	TWA	100 µg/m3 (OEB	Internal
			2)	

Ingredients with workplace control parameters

Engineering measures	:	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
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.
Filter type	:	Combined particulates and organic vapor type

: Chemical-resistant gloves

Hand protection Material



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	Skin an	otection Id body protection e measures	:	If the work environ mists or aerosols, Wear a faceshield potential for direct aerosols. Work uniform or la If exposure to che eye flushing syste working place. When using do no Wash contaminat The effective ope engineering contr appropriate dego	emical is likely during typical use, provide ems and safety showers close to the ot eat, drink or smoke. ed clothing before re-use. ration of a facility should include review of ols, proper personal protective equipment, whing and decontamination procedures, monitoring, medical surveillance and the
SEC	TION 9	. PHYSICAL AND CHE	EMI		8
	Appear	ance	:	pellets	
	Color		:	tan	
				to	
				light brown	
	Odor		:	characteristic	
	Odor T	hreshold	:	No data available	9
	рН		:	No data available	9
	Melting	point/freezing point	:	No data available	9
	Initial b range	oiling point and boiling	:	No data available	9
	Flash p	oint	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamma	ability (solid, gas)	:	May form explosing the handling or other	ive dust-air mixture during processing, means.
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9

SAFETY DATA SHEET according to the Hazardous Products Regulations



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	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	9
	Density	,	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	
		n coefficient: n-	:	No data available	9
	octanol, Autoign	/water iition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty osity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance o	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available)
	Particle Particle	characteristics size	:	No data available	9

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	 Not classified as a reactivity hazard. Stable under normal conditions. May form explosive dust-air mixture during processing, handling or other means. Can react with strong oxidizing agents. 	
Conditions to avoid	: Heat, flames and sparks. Avoid dust formation.	
Incompatible materials	: Oxidizing agents	
Hazardous decomposition products	: No hazardous decomposition products are known.	

SECTION 11. TOXICOLOGICAL INFORMATION

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

according to the Hazardous Products Regulations



sion	Revision Date: 09/28/2024	SDS Number: 7987911-00008	Date of last issue: 09/30/2023 Date of first issue: 03/22/2021			
Acute	e toxicity					
Not classified based on available information.						
Comp	<u>oonents:</u>					
White	e mineral oil (petrole	eum):				
Acute	oral toxicity	: LD50 (Rat): > 5	5,000 mg/kg			
Acute	inhalation toxicity	: LC50 (Rat): > 5 Exposure time: Test atmosphe Assessment: T tion toxicity	4 h			
Acute	dermal toxicity	: LD50 (Rabbit): Assessment: T toxicity	> 2,000 mg/kg he substance or mixture has no acute dermal			
fenbe	endazole:					
Acute	oral toxicity	: LD50 (Rat): > 1	10,000 mg/kg			
		LD50 (Mouse):	> 10,000 mg/kg			
Not cl	corrosion/irritation assified based on av ponents:		> 10,000 mg/kg			
Not cl	assified based on av	ailable information.	> 10,000 mg/kg			
Not cl Comp White Specie	assified based on av ponents: e mineral oil (petrole es	ailable information. eum): : Rabbit				
Not cl Comp White	assified based on av ponents: e mineral oil (petrole es	ailable information.				
Not cl Comp White Specie Resul	assified based on av ponents: e mineral oil (petrole es	ailable information. eum): : Rabbit				
Not cl Comp White Specia Result fenbe Specia	assified based on av <u>conents:</u> e mineral oil (petrole es t endazole: es	ailable information. eum): : Rabbit : No skin irritatio : Rabbit	n			
Not cl Comp White Specia Result	assified based on av <u>conents:</u> e mineral oil (petrole es t endazole: es	ailable information. eum): : Rabbit : No skin irritatio	n			
Not cl Comp White Specia Resul fenbe Specia Resul	assified based on av <u>conents:</u> e mineral oil (petrole es t endazole: es	ailable information. eum): : Rabbit : No skin irritatio : Rabbit : No skin irritatio irritation	n			
Not cl Comp White Specia Resul fenbe Specia Resul Serio Not cl	assified based on av <u>ponents:</u> e mineral oil (petrole es t es t us eye damage/eye	ailable information. eum): : Rabbit : No skin irritatio : Rabbit : No skin irritatio irritation	n			
Not cl Comp White Specia Resul Specia Resul Secio Not cl Comp	assified based on av <u>conents:</u> e mineral oil (petrole es t es t us eye damage/eye assified based on av	ailable information. eum): : Rabbit : No skin irritatio : Rabbit : No skin irritatio irritation ailable information.	n			
Not cl Comp White Specia Resul fenbe Specia Resul Serio Not cl Comp White Specia	assified based on av <u>conents:</u> e mineral oil (petrole es t es t us eye damage/eye assified based on av <u>conents:</u> e mineral oil (petrole es	ailable information. cum): : Rabbit : No skin irritatio : Rabbit : No skin irritatio irritation ailable information. cum): : Rabbit	n			
Not cl Comp White Specia Resul fenbe Specia Resul Serio Not cl Comp White	assified based on av <u>conents:</u> e mineral oil (petrole es t es t us eye damage/eye assified based on av <u>conents:</u> e mineral oil (petrole es	ailable information. eum): : Rabbit : No skin irritatio : Rabbit : No skin irritatio irritation ailable information. eum):	n			
Not cl Comp White Specia Resul Secio Not cl Comp White Specia Resul	assified based on av <u>conents:</u> e mineral oil (petrole es t es t us eye damage/eye assified based on av <u>conents:</u> e mineral oil (petrole es	ailable information. cum): : Rabbit : No skin irritatio : Rabbit : No skin irritatio irritation ailable information. cum): : Rabbit	n			
Not cl Comp White Specia Resul Secio Not cl Comp White Specia Resul	assified based on av <u>conents:</u> mineral oil (petrole es t us eye damage/eye assified based on av <u>conents:</u> mineral oil (petrole es t mineral oil (petrole es t	ailable information. cum): : Rabbit : No skin irritatio : Rabbit : No skin irritatio irritation ailable information. cum): : Rabbit	n			

according to the Hazardous Products Regulations

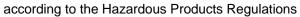


ersion 7	Revision Date: 09/28/2024		DS Number: 87911-00008	Date of last issue: 09/30/2023 Date of first issue: 03/22/2021
Resp	iratory or skin sensit	tizatio	on	
-	sensitization lassified based on ava	ilable	information.	
Respiratory sensitization Not classified based on available i			information.	
Comp	oonents:			
White	e mineral oil (petrole	um):		
Test T Route Speci Resul	es of exposure	::	Buehler Test Skin contact Guinea pig negative	
	cell mutagenicity assified based on ava	ilable	information.	
Comp	oonents:			
White	e mineral oil (petrole	um):		
Geno	toxicity in vitro	:	Test Type: In vitr Result: negative	o mammalian cell gene mutation test
Geno	toxicity in vivo	:	cytogenetic assa Species: Mouse Application Route Method: OECD T Result: negative	malian erythrocyte micronucleus test (in vive y) e: Intraperitoneal injection Test Guideline 474 on data from similar materials
fenbe	endazole:			
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	rial reverse mutation assay (AMES)
			Test Type: DNA Result: negative	Repair
			Test Type: Chror Result: negative	nosomal aberration
				use lymphoma cells ion: Metabolic activation
	nogenicity lassified based on ava	ilable	information.	

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ersion 7	Revision Date: 09/28/2024	-	S Number: 87911-00008	Date of last issue: 09/30/2023 Date of first issue: 03/22/2021
<u>Com</u>	<u>oonents:</u>			
White	e mineral oil (petroleur	n):		
Speci	es	•	Rat	
	cation Route	:	Ingestion	
	sure time	:	24 Months	
Resul		:	negative	
Resu	it.	•	negative	
fenbe	endazole:			
Speci	es	:	Mouse	
	cation Route		oral (feed)	
	sure time		2 Years	
NOAE		:	405 mg/kg body	v weight
-		:		y weight
Resul	IL	•	negative	
Speci	es	:	Rat	
Applic	cation Route	:	Oral	
	sure time	:	2 Years	
NÓAE			5 mg/kg body w	<i>r</i> eight
Resul			negative	
	et Organs	:	Lymph nodes, L	iver
Repro	oductive toxicity			
-	-	_		
Suspe	ected of damaging fertili	ty. S	suspected of dam	haging the unborn child.
Com	oonents:			
White	e mineral oil (petroleur	n).		
	is on fertility		Test Type: One	-generation reproduction toxicity study
LIEC	is off fertility	•	Species: Rat	-generation reproduction toxicity study
				ita. Chin contact
				ute: Skin contact
			Result: negative	9
Effect	s on fetal development	:		oryo-fetal development
			Species: Rat	
			Application Rou	ite: Ingestion
			Result: negative	e
fenbe	endazole:			
	s on fertility		Test Type: Thre	ee-generation reproduction toxicity stu
LICO	lo on forunty	•	Species: Rat	Se generation reproduction toxicity stu
				iter and (feed)
			Application Rou	
				y Parent: NOAEL: 15 mg/kg body weig
				.: 45 mg/kg body weight
			Result: Effects	on fertility.
Effect	s on fetal development	:	Test Type: Dev	elopment
	•		Species: Dog, f	
			Application Rou	
				Toxicity: LOAEL: 100 mg/kg body wei
				toxic effects and adverse effects on th
			unspring were c	detected., No teratogenic effects.
			0/45	
			9 / 15	





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/ersion .7	Revision Date: 09/28/2024	SDS Number: 7987911-00008	Date of last issue: 09/30/2023 Date of first issue: 03/22/2021
		Species: Rabbit Application Rou	te: Oral Toxicity: NOAEL: 25 mg/kg body weight
		Species: Rabbit Application Rou	
		Species: Rat Application Rou Developmental	ryo-fetal development te: Oral Toxicity: NOAEL: 120 mg/kg body weight cts on fetal development.
Repro sessn	oductive toxicity - As- nent	fertility, based o	of adverse effects on sexual function and n animal experiments., Some evidence of on development, based on animal
	-single exposure assified based on avail	able information.	

STOT-repeated exposure

Not classified based on available information.

Components:

fenbendazole:

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

Repeated dose toxicity

Components:

White mineral oil (petroleum):

Species LOAEL Application Route Exposure time	:	Rat 160 mg/kg Ingestion 90 Days
Species LOAEL Application Route Exposure time Method		Rat >= 1 mg/l inhalation (dust/mist/fume) 4 Weeks OECD Test Guideline 412

according to the Hazardous Products Regulations



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	fenben	idazole:			
	Species LOAEL Applica Exposu	S	:	Rat 500 mg/kg Oral 2 Weeks Kidney, Liver	
		- ttion Route ure time	::	Rat > 2,500 mg/kg Oral 30 Days No significant adv	erse effects were reported
	Exposu	ition Route ure time Organs	:	Rat 1,600 mg/kg Oral 90 Days Central nervous s Tremors	ystem
		_	:	Dog 4 mg/kg 8 mg/kg 6 Months Stomach, Nervou	s system, Lymph nodes
	Not cla	tion toxicity ssified based on availa onents:	able	information.	
	fenben No asp	idazole: iration toxicity classific			
	-	ence with human exp	osu	Ire	
		onents: Idazole: on	:	Symptoms: Rapid	respiration, Salivation, anorexia, Diarrhea
SEC	CTION 1	2. ECOLOGICAL INF	ORN	IATION	
	Ecotox	ricity			
		onents:			
			n).		
		mineral oil (petroleun / to fish	: :	LC50 (Oncorhync Exposure time: 96 Method: OECD To	
	Toxicity	y to daphnia and other	:	EC50 (Daphnia m	agna (Water flea)): > 100 mg/l



Vers 1.7	sion	Revision Date: 09/28/2024	-	9S Number: 87911-00008	Date of last issue: 09/30/2023 Date of first issue: 03/22/2021
	aquatic invertebrates			Exposure time: 48 Method: OECD Te	
	Toxicity plants	y to algae/aquatic	:	NOEC (Pseudokir mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	y to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28	chus mykiss (rainbow trout)): 1,000 mg/l d
		y to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 1,000 mg/l d
	fenben	dazole:			
	Toxicity	y to fish	:	LC50 (Lepomis m Exposure time: 21	acrochirus (Bluegill sunfish)): 0.009 mg/l d
		y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
		y to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia n Exposure time: 21 Method: OECD Te	
	Persis	tence and degradabili	ty		
	<u>Compo</u>	onents:			
	White	mineral oil (petroleum	n):		
		radability	:	Result: Not readily Biodegradation: 3 Exposure time: 28	31 %
	Bioaco	umulative potential			
	<u>Compo</u>	onents:			
	Partitio	ndazole: n coefficient: n-	:	log Pow: 3.32	
	octano Mobilit	l/water t y in soil			
		onents:			
		idazole:			
		ution among environ- compartments	:	log Koc: 3.8 - 4.7 Method: FDA 3.08	3

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Other adverse effects

No data available

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fenbendazole)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (fenbendazole)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, 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 supplied.

Domestic regulation



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TDG UN number Proper shipping name		N.O.S.	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.				
Class Packing group Labels ERG Code Marine pollutant		(fenbenda : 9 : III : 9 : 171 : yes(fenbe	, ,				

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

The ingredients of this product are reported in the following inventories:					
AICS	:	not determined			
DSL	:	not determined			
IECSC		not determined			
IECOC	•	not determined			

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL	:	Canada. Alberta, Occupational Health and Safety Code (table
		2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL	:	Québec. Regulation respecting occupational health and safe-
		ty, Schedule 1, Part 1: Permissible exposure values for air-
		borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / STEL	:	15-minute occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average
CA QC OEL / TWAEV	:	Time-weighted average exposure value

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



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- 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

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Revision Date Date format	:	09/28/2024 mm/dd/yyyy

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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