according to the OSHA Hazard Communication Standard



Fenbendazole (20%) Type A Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
3.1	09/30/2023	7634176-00010	Date of first issue: 12/02/2020

SECTION 1. IDENTIFICATION

Product name	:	Fenbendazole (20%) Type A Formulation
Manufacturer or supplier's o	deta	ails
Company name of supplier Address		Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065
Telephone Emergency telephone E-mail address	:	908-740-4000 1-908-423-6000 EHSDATASTEWARD@merck.com
Recommended use of the c	her	nical and restrictions on use
Recommended use Restrictions on use	:	Veterinary product Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) Combustible dust			
Reproductive toxicity	:	Category 2	
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Liver, Stomach, Nervous system, Lymph nodes)	
GHS label elements Hazard pictograms	:		
Signal Word	:	Warning	
Hazard Statements	:	If small particles are generated during further processing, han- dling or by other means, may form combustible dust concentra- tions in air. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs (Liver, Stomach, Nervous system, Lymph nodes) through prolonged or repeated exposure if swallowed.	
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust. P280 Wear protective gloves, protective clothing, eye protection	

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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.

Other hazards

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Calcium carbonate	471-34-1	32
fenbendazole	43210-67-9	20
White mineral oil (petroleum)	8042-47-5	3

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	:	· · ·
Most important symptoms and effects, both acute and delayed	:	Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed. Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.

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Prote	Protection of first-aiders		and use the rec	ders should pay attention to self-protection, ommended personal protective equipment tial for exposure exists (see section 8).
Notes	s to physician	:	Treat symptoma	atically and supportively.
SECTION	5. FIRE-FIGHTING ME	ASL	IRES	
Suital	ble extinguishing media	:	Water spray Alcohol-resistar Carbon dioxide Dry chemical	
Unsu media	itable extinguishing a	:	None known.	
	Specific hazards during fire fighting		concentrations, potential dust ex	g dust; fine dust dispersed in air in sufficient and in the presence of an ignition source is a plosion hazard. nbustion products may be a hazard to health.
Haza ucts	Hazardous combustion prod- ucts		Carbon oxides Nitrogen oxides Sulfur oxides Silicon oxides Metal oxides	(NOx)
Spec ods	ific extinguishing meth-	:	: Use extinguishing measures that are appropriate to loca cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe so. Evacuate area.	
	ial protective equipment e-fighters	:	In the event of f	ire, wear self-contained breathing apparatus. rotective equipment.

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. 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	:	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

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		determine whic Sections 13 and	e cleanup of releases. You will need to h regulations are applicable. d 15 of this SDS provide information regarding national requirements.
SECTION	7. HANDLING AND ST	TORAGE	
Techr	nical measures	causing an exp Provide adequa	r may accumulate and ignite suspended dust losion. ate precautions, such as electrical grounding r inert atmospheres.
	/Total ventilation e on safe handling	 Use only with a Do not breathe Do not swallow Avoid contact w Avoid prolonge Handle in accord practice, based assessment Minimize dust g Keep container Keep away from Take precaution 	dequate ventilation. dust.
Condi	itions for safe storage	: Keep in properl Store locked up	y labeled containers. ance with the particular national regulations.
Materials to avoid			th the following product types:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters inert or nuisance dust 50 Million particles per cubic foot

ment of huisance dust	Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	15 mg/m³ Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	5 mg/m³ Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
	15 Million particles per cubic foot Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
Dust, nuisance dust and par-	10 mg/m³

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ticulat	es	Value type (Basis: CAL): PEL (Total dust)	
		5 mg/m³ Value type (Basis: CAL): PEL (respirable du	st fraction)
Comp	onents	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Calciu	um carbonate	471-34-1	TWA (Res- pirable)	5 mg/m ³ (Calcium car- bonate)	NIOSH REL
			TWA (total)	10 mg/m ³ (Calcium car- bonate)	NIOSH REL
fenbe	ndazole	43210-67-9	TWA	100 µg/m3 (OEB 2)	Internal
White	mineral oil (petroleum)	8042-47-5	TWA (Inhal- able particu- late matter)	5 mg/m ³	ACGIH
			TWA (Mist)	5 mg/m ³	OSHA Z-1
			TWA (Mist)	5 mg/m ³	NIOSH REL
			ST (Mist)	10 mg/m ³	NIOSH REL
Engir	neering measures	compound. All enginee design and	ring controls shou operated in accor	trols to minimize exp Id be implemented by dance with GMP prin d the environment.	/ facility
Perso	onal protective equipm	ent			
	ratory protection	maintain va concentratii unknown, a Follow OSH use NIOSH by air purify hazardous supplied rea release, ex	por exposures be ons are above rec ppropriate respira IA respirator regu /MSHA approved ving respirators ag chemical is limited spirator if there is posure levels are ce where air purify	entilation is recommer low recommended limits or a story protection should lations (29 CFR 1910 respirators. Protection ainst exposure to any d. Use a positive press any potential for uncounknown, or any other ying respirators may r	nits. Where are d be worn. 0.134) and on provided / sure air ontrolled er
	protection aterial	: Chemical-re	esistant gloves		
Eye p	rotection	If the work mists or ae Wear a fac	environment or ac rosols, wear the a eshield or other fu	e shields or goggles. tivity involves dusty of ppropriate goggles. Il face protection if the the face with dusts, n	ere is a

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	and body protection ne measures	eye flushing sys working place. When using do Wash contamina The effective op engineering con appropriate deg	nemical is likely during typical use, provide tems and safety showers close to the not eat, drink or smoke. ated clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, ne monitoring, medical surveillance and the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	tan
		to
		light brown
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, handling or other means.
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	Not applicable
Relative vapor density	:	Not applicable
Relative density	:	No data available

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	Density		:	No data available	e				
	Solubility(ies) Water solubility		:	No data available	e				
		n coefficient: n-	:	Not applicable					
	octanol/water Autoignition temperature		:	: No data available					
	Decomposition temperature		:	: No data available					
	Viscosi Visc	ty cosity, kinematic	:	Not applicable					
	Explos	ive properties	:	Not explosive					
		ng properties	:		r mixture is not classified as oxidizing.				
	Molecu	ılar weight	:	No data available	9				
	Particle	e size	:	No data available	e				

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	:	

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:

Calcium carbonate:

Acute oral toxicity

: LD50 (Rat): > 2,000 mg/kg

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ersion I	Revision Date: 09/30/2023		Number: 176-00010	Date of last issue: 04/04/2023 Date of first issue: 12/02/2020
		A		D Test Guideline 420 The substance or mixture has no acute oral tox-
Acute	inhalation toxicity	E T N A		: 4 h
Acute	dermal toxicity	N A		2,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal
fenbe	ndazole:			
Acute	oral toxicity	: L	.D50 (Rat): >	10,000 mg/kg
		L	D50 (Mouse)	: > 10,000 mg/kg
White	mineral oil (petrole	um).		
	oral toxicity		.D50 (Rat): > :	5,000 mg/kg
Acute	inhalation toxicity	E T A	C50 (Rat): > Exposure time Test atmosphe Assessment: T ion toxicity	: 4 h
Acute	dermal toxicity	A		: > 2,000 mg/kg The substance or mixture has no acute dermal
Skin (corrosion/irritation			
-	assified based on ava	ilable in	formation.	
Comp	oonents:			
Calciu	um carbonate:			
Speci			Rabbit	
Metho Resul			DECD Test Gu	
Resul	ι	. r	No skin irritatio	/11
fenbe	ndazole:			
Specie Resul			Rabbit No skin irritatio	on
White	mineral oil (petrole	um):		
Specie	es	: F	Rabbit	
Resul		: N	lo skin irritatio	on

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Serious eye damage/eye irritation

Not classified based on available information.

Components:

Calcium carbonate:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405

fenbendazole:

Species	:	Rabbit
Result	:	No eye irritation

White mineral oil (petroleum):

Species	:	Rabbit
Result	:	No eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

Calcium carbonate:

Test Type	:	Local lymph node assay (LLNA)
Routes of exposure	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	negative

White mineral oil (petroleum):

Test Type	:	Buehler Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Calcium carbonate:

Genotoxicity in vitro

: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative

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			Method: OECD To Result: negative	o mammalian cell gene mutation test
	ibendazole: notoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
			Test Type: DNA F Result: negative	Repair
			Test Type: Chrom Result: negative	nosomal aberration
				o test use lymphoma cells on: Metabolic activation
Wł	nite mineral oil (petroleun	า):		
	notoxicity in vitro	:	Test Type: In vitro Result: negative	o mammalian cell gene mutation test
Ge	notoxicity in vivo	:	cytogenetic assay Species: Mouse Application Route Method: OECD To Result: negative	: Intraperitoneal injection
	rcinogenicity t classified based on availa	ıble	information.	
<u>Co</u>	mponents:			
fen	bendazole:			
Ap Ex NC	ecies plication Route posure time DAEL sult	:	Mouse oral (feed) 2 Years 405 mg/kg body v negative	veight
Ap Ex	ecies plication Route posure time DAEL	:	Rat Oral 2 Years 5 mg/kg body wei	ght

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Vers 3.1	sion	Revisio 09/30/2	on Date: 2023		9S Number: 34176-00010	Date of last issue: 04/04/2023 Date of first issue: 12/02/2020		
	Result Target Organs		:	: negative : Lymph nodes, Liver				
	White mineral oil (petroleum Species Application Route Exposure time Result			1):	Rat Ingestion 24 Months negative			
	IARC					at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.		
	OSHA				this product preser regulated carcinog	nt at levels greater than or equal to 0.1% is ens.		
	NTP					at levels greater than or equal to 0.1% is carcinogen by NTP.		
	-		toxicity lamaging fertilit	y. S	uspected of dama	jing the unborn child.		
	Compo	onents:						
	Calciu	m carbo	onate:					
	Effects	on fertil	ity	:				
	Effects on fetal development		:	Test Type: Embry Species: Rat Application Route Method: OECD To Result: negative				
	fenben	dazole:	1					
	Effects	on fertil	ity	:	Species: Rat Application Route General Toxicity F	Parent: NOAEL: 15 mg/kg body weight 5 mg/kg body weight		
	Effects	on fetal	development	:	Result: Embryoto:	nale		

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				Species: Rabbit Application Route	oxicity: NOAEL: 25 mg/kg body weight
				Species: Rabbit Application Route	vo-fetal development e: Oral oxicity: LOAEL: 63 mg/kg body weight
				Species: Rat Application Route Developmental To	vo-fetal development e: Oral oxicity: NOAEL: 120 mg/kg body weight s on fetal development.
	Reprod essme	uctive toxicity - As- ent	:	fertility, based on	f adverse effects on sexual function and animal experiments., Some evidence of n development, based on animal
v	Vhite r	nineral oil (petroleun	n):		
		on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study e: Skin contact
E	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route Result: negative	vo-fetal development :: Ingestion
		single exposure ssified based on availa	able	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		Ingestion
Target Organs	:	Liver, Stomach, Nervous system, Lymph nodes
Assessment	:	May cause damage to organs through prolonged or repeated
		exposure.

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	Repeat	ed dose toxicity			
	Compo	onents:			
	Calciu	m carbonate:			
		- tion Route ire time	:	Rat > 1,000 mg/kg Ingestion 28 Days OECD Test Guide	eline 422
	fenben	dazole:			
	Exposu		:	Rat 500 mg/kg Oral 2 Weeks Kidney, Liver	
	Species NOAEL Applica Exposu Remark	- tion Route ıre time		Rat > 2,500 mg/kg Oral 30 Days No significant adv	erse effects were reported
	Exposu	tion Route ire 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
	White I	mineral oil (petroleur	n):		
			:	Rat 160 mg/kg Ingestion 90 Days	
		tion Route Ire time		Rat >= 1 mg/l inhalation (dust/m 4 Weeks OECD Test Guide	
	Aspira	tion toxicity			

Aspiration toxicity

Not classified based on available information.

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<u>c</u>	Compo	onents:			
		dazole: iration toxicity classifica	atio	n	
E	Experie	ence with human exp	osu	re	
<u>C</u>	Compo	onents:			
	enben ngestic	dazole: on	:	Symptoms: Rap	id respiration, Salivation, anorexia, Diarrhea
SECT	ION 1	2. ECOLOGICAL INFO	DRN	IATION	
E	Ecotox	icity			
<u>C</u>	Compo	onents:			
С	Calciur	n carbonate:			
Т	oxicity	r to fish	:	Exposure time: Test substance:	chus mykiss (rainbow trout)): > 100 mg/l 96 h Water Accommodated Fraction Test Guideline 203
		to daphnia and other invertebrates	:	Exposure time: Test substance:	magna (Water flea)): > 100 mg/l 48 h Water Accommodated Fraction Test Guideline 202
	oxicity	v to algae/aquatic	:	mg/l Exposure time: Test substance:	okirchneriella subcapitata (green algae)): 50 72 h Water Accommodated Fraction Test Guideline 201
				mg/l Exposure time: Test substance:	rchneriella subcapitata (green algae)): > 100 72 h Water Accommodated Fraction Test Guideline 201
Т	oxicity	to microorganisms	:	NOEC: 1,000 m Exposure time: Method: OECD	
				EC50: > 1,000 r Exposure time: Method: OECD	
fe	enben	dazole:			
		to fish	:	LC50 (Lepomis Exposure time:	macrochirus (Bluegill sunfish)): 0.009 mg/l 21 d

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		/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)		:	NOEC (Daphnia r Exposure time: 21 Method: OECD To	
	White	mineral oil (petroleum	ı):		
		/ to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD To	
		/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	/ to algae/aquatic	:	NOEC (Pseudokin mg/l Exposure time: 72 Method: OECD Te	
	Toxicity icity)	/ to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 28	chus mykiss (rainbow trout)): 1,000 mg/l 3 d
		/ to daphnia and other invertebrates (Chron- ity)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 1,000 mg/l d
	Persist	tence and degradabili	ity		
	Compo	onents:			
	White	mineral oil (petroleum	ו):		
	Biodeg	radability	:	Result: Not readily Biodegradation: 3 Exposure time: 28	31 %
	Bioaco	umulative potential			
	Compo	onents:			
		d azole: n coefficient: n- /water	:	log Pow: 3.32	
	Mobilit	y in soil			
	Compo	onents:			
	fenben	dazole:			
		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

Disp	osal me	ethods	

Waste from residues	:	Dispose of in accordance with local regulations.
		Do not dispose of waste into sewer.
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	:	III
Labels	:	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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49 C	FR			
	D/NA number	:	UN 3077	
Prop	er shipping name	:		nazardous substance, solid, n.o.s.
Clas	5	:	9	
Pack	ing group	:		
Labe	ls	:	: CLASS 9 : 171	
ERG	Code	:		
Marii	ne pollutant	:	yes(fenbendazole	2)
Rem	arks	:	Above applies on liters.	ly to containers over 119 gallons or 450
			may be shipped p	nd under DOT is non-regulated; however it ber the applicable hazard classification to dal transport involving ICAO (IATA) or IMO.

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	Combustible dust Reproductive toxicity Specific target organ toxicity (single or repeated exposure)
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know	
Rice Hulls	Not Assigned
Calcium carbonate	471-34-1
fenbendazole	43210-67-9
White mineral oil (petroleum)	8042-47-5
California List of Hazardous Substances	
White mineral oil (petroleum)	8042-47-5
California Permissible Exposure Limits for Chemical Contaminants	
Calcium carbonate	471-34-1

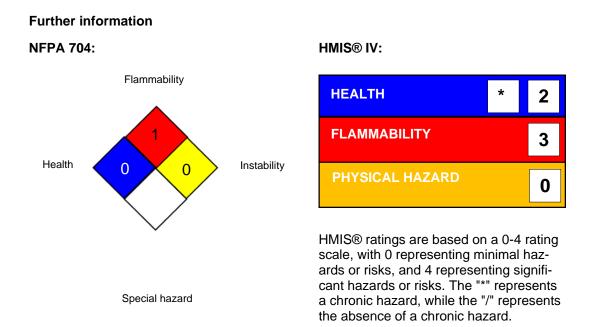
according to the OSHA Hazard Communication Standard



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	White mineral oil	(petroleum)	8042-47-5
The ir	ngredients of this pr	oduct are reported in t	the following inventories:
AICS		: not determined	
DSL		: not determined	
IECS	2	: not determined	

SECTION 16. OTHER INFORMATION



Full text of other	abbreviations
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ACGIH CAL PEL		USA. ACGIH Threshold Limit Values (TLV) California permissible exposure limits for chemical contami- nants (Title 8, Article 107)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
CAL PEL / PEL	:	Permissible exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA		8-hour time weighted average





Fenbendazole (20%) Type A Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/04/2023
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AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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/

Revision Date

: 09/30/2023

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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