

according to GB/T 16483 and GB/T 17519

# Albendazole Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
9.0	2024/09/28	10232231-00017	Date of first issue: 2021/11/16

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product name	:	Albendazole Formulation					
Manufacturer or supplier's details							
Company	:	MSD					
Address	:	No. 485 Jing Tai Road Pu Tuo District - Shanghai - China 200331					
Telephone	:	+1-908-740-4000					
Emergency telephone number	:	86-571-87268110					
E-mail address	:	EHSDATASTEWARD@msd.com					
Recommended use of the chemical and restrictions on use							
Recommended use Restrictions on use	:	Veterinary product Not applicable					

### 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

Appearance Colour Odour	:	powder cream No data available				
May be harmful if swallowed. May cause an allergic skin reaction. Suspected of damaging the unborn child. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.						
GHS Classification						
Acute toxicity (Oral)	:	Category 5				
Skin sensitisation	:	Category 1				
Reproductive toxicity	:	Category 2				
Specific target organ toxicity - single exposure	:	Category 2				
Specific target organ toxicity - repeated exposure	:	Category 2				
Short-term (acute) aquatic hazard	:	Category 1				



according to GB/T 16483 and GB/T 17519

/ersion 9.0	Revision Date: 2024/09/28	SDS Number: 10232231-00017	Date of last issue: 2024/07/06 Date of first issue: 2021/11/16
Long- hazar	term (chronic) aquatic d	: Category 1	
GHS	label elements		
Hazai	rd pictograms		!
Signa	l word	: Warning	<b>v v</b>
Haza	rd statements	H317 May caus H361d Suspect H371 May caus H373 May caus peated exposur	armful if swallowed. e an allergic skin reaction. ed of damaging the unborn child. e damage to organs. e damage to organs through prolonged or re e. c to aquatic life with long lasting effects.
Preca	utionary statements	Prevention:	
		P201 Obtain sp P202 Do not ha and understood P260 Do not br P264 Wash skii P270 Do not ea P272 Contamin the workplace. P273 Avoid rele	eathe dust. In thoroughly after handling. It, drink or smoke when using this product. ated work clothing should not be allowed out ease to the environment. rective gloves/ protective clothing/ eye protec
		Response:	
		P308 + P311 IF CENTER/ docto P333 + P313 If vice/ attention.	skin irritation or rash occurs: Get medical ad- ake off contaminated clothing and wash it bef
		<b>Storage:</b> P405 Store lock	ed up.
		Disposal:	f contents/ container to an approved waste

according to GB/T 16483 and GB/T 17519



# Albendazole Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
9.0	2024/09/28	10232231-00017	Date of first issue: 2021/11/16

### Physical and chemical hazards

Not classified based on available information.

### Health hazards

May be harmful if swallowed. May cause an allergic skin reaction. Suspected of damaging the unborn child. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure.

### Environmental hazards

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

### Other hazards which do not result in classification

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.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

•		
Chemical name	CAS-No.	Concentration (% w/w)
Albendazole Sulfoxide	54029-12-8	>= 50 -< 70
Cellulose	9004-34-6	>= 20 -< 30

### 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice 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 in eyes, rinse well with water.
		Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting.
		Get medical attention.
		Rinse mouth thoroughly with water.
		Never give anything by mouth to an unconscious person.
Most important symptoms	÷	May be harmful if swallowed.
and effects, both acute and		May cause an allergic skin reaction.
delayed		Suspected of damaging the unborn child.
		May cause damage to organs.
		May cause damage to organs through prolonged or repeated exposure.



according to GB/T 16483 and GB/T 17519

# Albendazole Formulation

Versio 9.0	on	Revision Date: 2024/09/28		9S Number: 232231-00017	Date of last issue: 2024/07/06 Date of first issue: 2021/11/16
		ion of first-aiders o physician	:	Contact with dust can cause mechanical irritation or drying of the skin. 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). Treat symptomatically and supportively.	
5. FIR	REFIGH	ITING MEASURES			
S	Suitable	e extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
	Jnsuita nedia	ble extinguishing	concentrations, and in the presence of a potential dust explosion hazard.		
	Specific ighting	hazards during fire-			dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a losion hazard. bustion products may be a hazard to health.
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (I Sulphur oxides Metal oxides	NOx)
	Specific ods	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
	Special or firefi	protective equipment ghters	:		e, wear self-contained breathing apparatus. tective equipment.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective 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.

according to GB/T 16483 and GB/T 17519



Vers 9.0	ion	Revision Date: 2024/09/28		9S Number: 232231-00017	Date of last issue: 2024/07/06 Date of first issue: 2021/11/16
		ds and materials for ament and cleaning up	:	tainer for disposal Avoid dispersal of with compressed Dust deposits sho es, as these may leased into the att Local or national to posal of this mate employed in the c mine which regula Sections 13 and 1	dust in the air (i.e., clearing dust surfaces
7. H/		NG AND STORAGE			
	Handli	ng			
	Techni	cal measures	:	causing an explos	precautions, such as electrical grounding
		otal ventilation on safe handling	:	Use only with ade Do not get on skir Do not breathe du Do not swallow. Avoid contact with Wash skin thorou Handle in accorda practice, based or sessment Minimize dust ger Keep container cl Keep away from h Take precautiona Do not eat, drink of	equate ventilation. o or clothing. ust.

Avoidance of contact	:	Take care to prevent spills, waste and minimize release to the environment. Oxidizing agents
Storage		
Conditions for safe storage	:	Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents
Packaging material	:	Unsuitable material: None known.



according to GB/T 16483 and GB/T 17519

# Albendazole Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
9.0	2024/09/28	10232231-00017	Date of first issue: 2021/11/16

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Albendazole Sulfoxide	54029-12-8	TWA	45 µg/m3 (OEB	Internal
			3)	
	Further inform	nation: DSEN		
		Wipe limit	100 µg/100 cm2	Internal
Cellulose	9004-34-6	PC-TWA	10 mg/m3	CN OEL
		TWA	10 mg/m3	ACGIH

Engineering measures :	All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face con- tainment devices). Minimize open handling.
------------------------	--

### Personal protective equipment

Respiratory protection :	sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type : Eye/face protection :	Particulates type 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 :	Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, dis- posable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Hand protection	
Material :	Chemical-resistant gloves
Remarks : Hygiene measures :	Consider double gloving. If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the work- ing place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace.

according to GB/T 16483 and GB/T 17519



# Albendazole Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
9.0	2024/09/28	10232231-00017	Date of first issue: 2021/11/16

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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	cream
Odour	:	No data available
Odour 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	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling 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
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n- octanol/water	:	Not applicable



according to GB/T 16483 and GB/T 17519

Version 9.0	Revision Date: 2024/09/28	SDS Number: 10232231-00017	Date of last issue: 2024/07/06 Date of first issue: 2021/11/16
Auto-	ignition temperature	: No data availa	ble
Deco	mposition temperature	: No data availa	ble
Visco Vi	osity scosity, kinematic	: Not applicable	
Explo	osive properties	: Not explosive	
Oxidi	zing properties	: The substance	or mixture is not classified as oxidizing.
Mole	cular weight	: No data availa	ble
	cle characteristics cle size	: No data availa	ble
10. STAB		(	
	tivity nical stability ibility of hazardous reac-	<ul> <li>Stable under r</li> <li>May form expl dling or other r</li> </ul>	as a reactivity hazard. formal conditions. osive dust-air mixture during processing, han- neans. strong oxidizing agents.
	litions to avoid	: Heat, flames a Avoid dust for	mation.
	npatible materials rdous decomposition ucts	: Oxidizing ager : No hazardous	nts decomposition products are known.
1. TOXIC	COLOGICAL INFORMA	ΓΙΟΝ	
Ехро	sure routes	: Inhalation Skin contact Ingestion Eye contact	
	<b>e toxicity</b> be harmful if swallowed.		
<b>_</b> .		: Acute toxicity estimate: 3,000 mg/kg Method: Calculation method	
<u>Prod</u> Acute	<u>uct:</u> e oral toxicity		
Acute			
Acute <u>Com</u> Albe	e oral toxicity ponents: ndazole Sulfoxide:	Method: Calcul	ation method
Acute <u>Com</u> Albe	e oral toxicity ponents:		ation method

according to GB/T 16483 and GB/T 17519



# **Albendazole Formulation**

Version 9.0	Revision Date: 2024/09/28		OS Number: 232231-00017	Date of last issue: 2024/07/06 Date of first issue: 2021/11/16
	e toxicity (other routes of nistration)	:	LD50 (Rat): 265 r Application Route	
Cellu	llose:			
Acute	e oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 5.8 Exposure time: 4 Test atmosphere:	h
Acute	e dermal toxicity	:	LD50 (Rabbit): >	2,000 mg/kg
	corrosion/irritation lassified based on availa	ble	information.	
Com	ponents:			
Albei	ndazole Sulfoxide:			
Spec Resu		:	Rabbit No skin irritation	
Not c <u>Com</u>	ous eye damage/eye irri lassified based on availa ponents:			
	ndazole Sulfoxide:		5.11%	
Spec Resu		:	Rabbit No eye irritation	
Resp	piratory or skin sensitis	atio	on	
-	sensitisation cause an allergic skin rea	actio	on.	
•	<b>iratory sensitisation</b> lassified based on availa	ble	information.	
Com	ponents:			
Albei	ndazole Sulfoxide:			
	Type sure routes ssment	::	Maximisation Tes Dermal Probability or evid	st dence of low to moderate skin sensitisation
Resu	lt	:	rate in humans positive	
Test Expo	Type sure routes	:	Maximisation Tes Dermal	st



according to GB/T 16483 and GB/T 17519

# Albendazole Formulation

ersion .0	Revision Date: 2024/09/28		S Number: 232231-00017	Date of last issue: 2024/07/06 Date of first issue: 2021/11/16
Resu	lt		Sensitiser	
i tesu	it.	•	Ochanaci	
	<b>cell mutagenicity</b> lassified based on av	ailable	nformation.	
<u>Com</u>	ponents:			
	ndazole Sulfoxide: toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
				mosomal aberration inese hamster ovary cells
Geno	toxicity in vivo	:	Test Type: Micro Species: Mouse Cell type: Bone Result: negative	marrow
Cellu	lose:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: In vit Result: negative	ro mammalian cell gene mutation test
Geno	toxicity in vivo	:	Test Type: Man cytogenetic ass Species: Mouse Application Rou Result: negative	te: Ingestion
	<b>nogenicity</b> lassified based on av	ailable	nformation.	
Com	ponents:			

# Albendazole Sulfoxide:

Species Application Route Exposure time NOAEL Result	::	Mouse Oral 2 Years 400 mg/kg body weight negative
Species Application Route Exposure time NOAEL Result	:	Rat Oral 2 Years 20 mg/kg body weight negative



according to GB/T 16483 and GB/T 17519

rsion )	Revision Date: 2024/09/28	SDS Number: 10232231-00017	Date of last issue: 2024/07/06 Date of first issue: 2021/11/16
	nogenicity - Assess-	: No evidence o	f carcinogenicity in animal studies.
ment			
	es cation Route sure time	: Rat : Ingestion : 72 weeks : negative	
Suspe	oductive toxicity ected of damaging the ponents:	unborn child.	
	dazole Sulfoxide:		
	s on fertility	: Test Type: Fer Species: Rat Application Ro Fertility: NOAE Result: No effe	ute: Oral L: 30 mg/kg body weight
Effect ment	s on foetal develop-		
			it ute: Oral I Toxicity: LOAEL: 30 mg/kg body weight otoxic effects., Skeletal malformations, Mate
			ute: Oral I Toxicity: LOAEL: 7 mg/kg body weight otoxic effects and adverse effects on the off-
Popro	ductive toxicity - As-	· Suspected of c	lamaging the unborn child.

according to GB/T 16483 and GB/T 17519



# Albendazole Formulation

Version 9.0	Revision Date: 2024/09/28		DS Number: 232231-00017	Date of last issue: 2024/07/06 Date of first issue: 2021/11/16
Effect	s on fertility	:	Test Type: One-g Species: Rat Application Route Result: negative	generation reproduction toxicity study
Effect ment	s on foetal develop-	:	Test Type: Fertilit Species: Rat Application Route Result: negative	ty/early embryonic development e: Ingestion
	- single exposure			
-	ause damage to organ	S.		
Comp	oonents:			
	ndazole Sulfoxide:			
Targe	sure routes et Organs ssment	:	Oral Gastrointestinal t May cause dama	ract, Central nervous system ge to organs.
CT OT				
	<ul> <li>repeated exposure</li> <li>cause damage to organ</li> </ul>	s thr	ough prolonged or	repeated exposure
	oonents:	0	ough proiongou or	
Alber	ndazole Sulfoxide:			
	sure routes t Organs	:	Oral Gastrointestinal t tem, Liver	ract, Central nervous system, Immune sys-
Asses	ssment	:	,	ge to organs through prolonged or repeated

### Repeated dose toxicity

### Components:

### Albendazole Sulfoxide:

Species LOAEL Application Route Exposure time Target Organs Symptoms	 Rat 168 mg/kg Oral 4 Weeks Gastrointestinal tract, Testis Diarrhoea, Vomiting
Species LOAEL Application Route Exposure time Target Organs Symptoms	 Dog 48 mg/kg Oral 4 Weeks Gastrointestinal tract Diarrhoea, Vomiting

according to GB/T 16483 and GB/T 17519



Version 9.0	Revision Date: 2024/09/28	SDS Number: 10232231-00017	Date of last issue: 2024/07/06 Date of first issue: 2021/11/16
Expos Targe Symp Speci	EL cation Route sure time et Organs otoms	: Mouse : 40 mg/kg : Oral : 3 Months : Blood, Liver, No : Hematologic eff : Rat	ose fects, Liver effects
LOAE Applic Expos	EL cation Route sure time et Organs	: >= 30 mg/kg : Oral : 6 Months : Blood : Hematologic eff	fects
Expos	EL cation Route sure time et Organs	: Dog : 40 mg/kg : Oral : 6 Months : Blood, Liver : Hematologic eff	fects, Liver effects
Expos	EL cation Route sure time et Organs	: Rat : 7 mg/kg : Oral : 60 d : Liver, Testis : Liver effects, m	ale reproductive effects
Cellu Speci NOAE Applio Expos	ies	: Rat : >= 9,000 mg/kg : Ingestion : 90 Days	
Not cl	ration toxicity lassified based on ava rience with human e		
-	ponents:	-	
Alber	ndazole Sulfoxide:		
	ral Information		ergic reactions, hair loss, Gastrointestinal dis- ache, Dizziness Skin
Inges	tion	Symptoms: Alle Remarks: May : Target Organs:	

Version

9.0

according to GB/T 16483 and GB/T 17519



Date of last issue: 2024/07/06

Date of first issue: 2021/11/16

# Albendazole Formulation

Revision Date:

2024/09/28

SDS Number:

10232231-00017

	Target Organs: Central nervous system Symptoms: Headache, Dizziness Target Organs: Liver Symptoms: liver function change
	Target Organs: Immune system Symptoms: immune system effects
ECOLOGICAL INFORMATION	l
Ecotoxicity	
Components:	
Albendazole Sulfoxide:	
Toxicity to fish	: EC50 (Brachydanio rerio (zebrafish)): 0.042 mg/l Exposure time: 144 hrs
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0.068 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	<ul> <li>EC50 (Raphidocelis subcapitata (freshwater green alga)):</li> <li>0.024 mg/l</li> <li>Exposure time: 72 h</li> <li>Method: OECD Test Guideline 201</li> </ul>
M-Factor (Acute aquatic tox-	: 10
icity) M-Factor (Chronic aquatic toxicity)	: 10
Cellulose:	
Toxicity to fish	<ul> <li>LC50 (Oryzias latipes (Japanese medaka)): &gt; 100 mg/l Exposure time: 48 h Remarks: Based on data from similar materials</li> </ul>
Persistence and degradabilit	ty
Components:	
Cellulose:	
Biodegradability	: Result: Readily biodegradable.
Bioaccumulative potential	
Components:	
Albendazole Sulfoxide:	
Albendazole Sulfoxide: Partition coefficient: n- octanol/water	: log Pow: 1.27 pH: 7

according to GB/T 16483 and GB/T 17519



Version 9.0	Revision Date: 2024/09/28	SDS Number: 10232231-00017	Date of last issue: 2024/07/06 Date of first issue: 2021/11/16
	<b>ility in soil</b> lata available		
	er adverse effects lata available		
13. DISP	OSAL CONSIDERATION	IS	
Was	oosal methods te from residues taminated packaging	Dispose of in ac Empty container dling site for rec	of waste into sewer. cordance with local regulations. 's should be taken to an approved waste han- ycling or disposal. specified: Dispose of as unused product.
14. TRAN	NSPORT INFORMATION		
Inte	rnational Regulations		
UN ı	RTDG number per shipping name	: UN 3077 : ENVIRONMENT N.O.S. (Albendazole S	TALLY HAZARDOUS SUBSTANCE, SOLID,
Labe	king group	: 9 : III : 9 : yes	
UN/I	<b>A-DGR</b> ID No. per shipping name	: UN 3077 : Environmentally (Albendazole S	hazardous substance, solid, n.o.s. ulfoxide)
Labe Pacl aircr	king group els king instruction (cargo aft)	: 9 : III : Miscellaneous : 956	
ger a	king instruction (passen- aircraft) ronmentally hazardous	: 956	
IMD UN 1	G-Code number per shipping name	N.O.S.	FALLY HAZARDOUS SUBSTANCE, SOLID,
Labe EmS	king group	(Albendazole Su : 9 : III : 9 : F-A, S-F : yes	litoxide)





# Albendazole Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
9.0	2024/09/28	10232231-00017	Date of first issue: 2021/11/16

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

Not applicable for product as supplied.

### **National Regulations**

GB 6944/12268		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
		N.O.S.
		(Albendazole Sulfoxide)
Class	:	9
Packing group	:	III
Labels	:	9
Marine pollutant	:	no

### 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.

### 15. REGULATORY INFORMATION

### National regulatory information

Law on the Prevention and Control of Occupational Diseases

### **Regulations on Safety Management of Hazardous Chemicals**

Regulations on Salety Management of nazaruous C		linouis
Catalogue of Hazardous Chemicals	:	This product is not listed in the cata- logue of hazardous chemicals, but it meets the definition of hazardous chemicals and its principles of de- termination.
Identification of Major Hazard Installations for Hazardou 18218)	ıs C	hemicals (GB : Not listed
Hazardous Chemicals for Priority Management under SAWS	:	Not listed
Regulations on Labour Protection in Workplaces wh	here	e Toxic Substances are Used
Regulations on Labour Protection in Workplaces whe Catalogue of Highly Toxic Chemicals	:	Not listed
Regulation of Environmental Management on the Fi and Export of Toxic Chemicals	rst	Import of Chemicals and the Import
China Severely Restricted Toxic Chemicals for Import and Export	:	Not listed
Regulation on the Administration of Precursor Cher	mica	als



according to GB/T 16483 and GB/T 17519

# Albendazole Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
9.0	2024/09/28	10232231-00017	Date of first issue: 2021/11/16

### Yangtze River Protection Law

This product does not contain any dangerous chemicals prohibited for inland river transport.

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

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

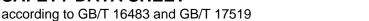
### **16. OTHER INFORMATION**

Revision Date	:	2024/09/28
Further information Sources of key data used to compile the 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/

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

Date format	:	yyyy/mm/dd
Full text of other abbreviatio	ns	
ACGIH CN OEL	:	USA. ACGIH Threshold Limit Values (TLV) Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.
ACGIH / TWA CN OEL / PC-TWA		8-hour, time-weighted average Permissible concentration - 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





# Albendazole Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 2024/07/06
9.0	2024/09/28	10232231-00017	Date of first issue: 2021/11/16

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

### Disclaimer

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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