

**Albendazole Sulfoxide (10%) Formulation**

Version            Revision Date:            SDS Number:            Date of last issue: 04/09/2022  
2.2                10/01/2022                3884326-00009            Date of first issue: 11/30/2018

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**SECTION 1. IDENTIFICATION**

Product name                                : Albendazole Sulfoxide (10%) Formulation

**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

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**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**


Skin sensitization                          : Category 1

Reproductive toxicity                      : Category 2

Specific target organ toxicity            : Category 2 (Gastrointestinal tract, Central nervous system)  
- single exposure (Oral)

Specific target organ toxicity            : Category 2 (Gastrointestinal tract, Central nervous system, Im-  
- repeated exposure (Oral)                : immune system, Liver)

**GHS label elements**

Hazard pictograms                         : 

Signal Word                                 : Warning

Hazard Statements                         : H317 May cause an allergic skin reaction.  
H361d Suspected of damaging the unborn child.  
H371 May cause damage to organs (Gastrointestinal tract,  
Central nervous system) if swallowed.  
H373 May cause damage to organs (Gastrointestinal tract,  
Central nervous system, Immune system, Liver) 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 mist or vapors.

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## Albendazole Sulfoxide (10%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/09/2022
2.2	10/01/2022	3884326-00009	Date of first issue: 11/30/2018

P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P272 Contaminated work clothing must not be allowed out of the workplace.  
 P280 Wear protective gloves, protective clothing, eye protection and face protection.

### Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P308 + P311 IF exposed or concerned: Call a doctor.  
 P308 + P313 IF exposed or concerned: Get medical attention.  
 P333 + P313 If skin irritation or rash occurs: Get medical attention.  
 P363 Wash contaminated clothing before reuse.

### Storage:

P405 Store locked up.

### Disposal:

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

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Albendazole Sulfoxide	54029-12-8	>= 10 - < 20
Glycerine	56-81-5	>= 5 - < 10

Actual concentration is withheld as a trade secret

## 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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention.

## Albendazole Sulfoxide (10%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/09/2022
2.2	10/01/2022	3884326-00009	Date of first issue: 11/30/2018

---

Most important symptoms and effects, both acute and delayed	:	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. May cause an allergic skin reaction. Suspected of damaging the unborn child. May cause damage to organs if swallowed. May cause damage to organs through prolonged or repeated exposure if swallowed.
Protection of first-aiders	:	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.

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### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides Nitrogen oxides (NO <sub>x</sub> ) Sulfur oxides
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances 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.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency 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. 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	:	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable

## Albendazole Sulfoxide (10%) Formulation

Version 2.2      Revision Date: 10/01/2022      SDS Number: 3884326-00009      Date of last issue: 04/09/2022  
 Date of first issue: 11/30/2018

absorbent.

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 : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Do not get on skin or clothing.  
 Do not breathe mist or vapors.  
 Do not swallow.  
 Avoid contact with eyes.  
 Wash skin thoroughly after handling.  
 Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
 Do not eat, drink or smoke when using this product.  
 Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage : Keep in properly labeled 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  
 Gases

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Albendazole Sulfoxide	54029-12-8	TWA	40 µg/m <sup>3</sup> (OEB 3)	Internal
Further information: DSEN				
		Wipe limit	100 µg/100 cm <sup>2</sup>	Internal

- Engineering measures** : Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).  
 All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.  
 Laboratory operations do not require special containment.

#### Personal protective equipment

- Respiratory protection : General and local exhaust ventilation is recommended to

## Albendazole Sulfoxide (10%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/09/2022
2.2	10/01/2022	3884326-00009	Date of first issue: 11/30/2018

---

maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection	:	
Material	:	Chemical-resistant gloves
Eye protection	:	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.
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. Contaminated work clothing should not be allowed out of the workplace. 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.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Color	:	white
Odor	:	No data available
Odor Threshold	:	No data available
pH	:	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

**Albendazole Sulfoxide (10%) Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 04/09/2022
2.2	10/01/2022	3884326-00009	Date of first issue: 11/30/2018

---

Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility	:	No data available
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available
Particle size	:	No data available

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**SECTION 10. STABILITY AND REACTIVITY**

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

**Albendazole Sulfoxide (10%) Formulation**

Version            Revision Date:            SDS Number:            Date of last issue: 04/09/2022  
2.2                10/01/2022                3884326-00009            Date of first issue: 11/30/2018

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Inhalation  
Skin contact  
Ingestion  
Eye contact

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity                                : Acute toxicity estimate: > 5,000 mg/kg  
Method: Calculation method

**Components:****Albendazole Sulfoxide:**

Acute oral toxicity                                : LD50 (Mouse): 1,500 mg/kg  
LD50 (Rat): 2,400 mg/kg

Acute toxicity (other routes of : LD50 (Rat): 265 mg/kg  
administration)                                Application Route: Intravenous

**Glycerine:**

Acute oral toxicity                                : LD50 (Rat): > 5,000 mg/kg  
Acute dermal toxicity                                : LD50 (Guinea pig): > 5,000 mg/kg

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Albendazole Sulfoxide:**

Species    : Rabbit  
Result     : No skin irritation

**Glycerine:**

Species    : Rabbit  
Result     : No skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****Albendazole Sulfoxide:**

Species    : Rabbit  
Result     : No eye irritation

**Albendazole Sulfoxide (10%) Formulation**

Version            Revision Date:            SDS Number:            Date of last issue: 04/09/2022  
2.2                10/01/2022                3884326-00009            Date of first issue: 11/30/2018

---

**Glycerine:**

Species                                : Rabbit  
Result                                 : No eye irritation

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Components:****Albendazole Sulfoxide:**

Test Type                                : Maximization Test  
Routes of exposure                        : Dermal  
Assessment                                : Probability or evidence of low to moderate skin sensitization rate in humans  
Result                                        : positive

Test Type                                : Maximization Test  
Routes of exposure                        : Dermal  
Result                                        : Sensitizer

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****Albendazole Sulfoxide:**

Genotoxicity in vitro                        : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: Chromosomal aberration  
Test system: Chinese hamster ovary cells  
Result: negative

Genotoxicity in vivo                        : Test Type: Micronucleus test  
Species: Mouse  
Cell type: Bone marrow  
Result: negative

**Glycerine:**

Genotoxicity in vitro                        : Test Type: In vitro mammalian cell gene mutation test  
Result: negative

Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative

Test Type: Chromosome aberration test in vitro  
Result: negative

Test Type: DNA damage and repair, unscheduled DNA syn-



## Albendazole Sulfoxide (10%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/09/2022
2.2	10/01/2022	3884326-00009	Date of first issue: 11/30/2018

---

thesis in mammalian cells (in vitro)  
Result: negative

### Carcinogenicity

Not classified based on available information.

### Components:

#### Albendazole Sulfoxide:

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

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

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

#### Glycerine:

Species : Rat  
Application Route : Ingestion  
Exposure time : 2 Years  
Result : negative

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

Suspected of damaging the unborn child.

### Components:

#### Albendazole Sulfoxide:

Effects on fertility : Test Type: Fertility  
Species: Rat  
Application Route: Oral  
Fertility: NOAEL: 30 mg/kg body weight  
Result: No effects on fertility.

Effects on fetal development : Test Type: Development  
Species: Rat  
Application Route: Oral  
Developmental Toxicity: LOAEL: 10 mg/kg body weight

## Albendazole Sulfoxide (10%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/09/2022
2.2	10/01/2022	3884326-00009	Date of first issue: 11/30/2018

---

Result: Embryotoxic effects., Skeletal malformations.

Test Type: Development  
 Species: Rabbit  
 Application Route: Oral  
 Developmental Toxicity: LOAEL: 30 mg/kg body weight  
 Result: Embryotoxic effects., Skeletal malformations.,  
 Maternal toxicity observed.

Test Type: Development  
 Species: Rat  
 Application Route: Oral  
 Developmental Toxicity: NOAEL: 5.8 mg/kg body weight  
 Result: Effects on postnatal development.

Test Type: Development  
 Species: Rat  
 Application Route: Oral  
 Developmental Toxicity: LOAEL: 7 mg/kg body weight  
 Result: Embryotoxic effects and adverse effects on the  
 offspring were detected.

Reproductive toxicity - Assessment : Suspected of damaging the unborn child.

### **Glycerine:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
 Species: Rat  
 Application Route: Ingestion  
 Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
 Species: Rat  
 Application Route: Ingestion  
 Result: negative

### **STOT-single exposure**

May cause damage to organs (Gastrointestinal tract, Central nervous system) if swallowed.

### **Components:**

#### **Albendazole Sulfoxide:**

Routes of exposure : Oral  
 Target Organs : Gastrointestinal tract, Central nervous system  
 Assessment : May cause damage to organs.

### **STOT-repeated exposure**

May cause damage to organs (Gastrointestinal tract, Central nervous system, Immune system, Liver) through prolonged or repeated exposure if swallowed.

### **Components:**

#### **Albendazole Sulfoxide:**

Routes of exposure : Oral  
 Target Organs : Gastrointestinal tract, Central nervous system, Immune sys-

## Albendazole Sulfoxide (10%) Formulation

Version 2.2      Revision Date: 10/01/2022      SDS Number: 3884326-00009      Date of last issue: 04/09/2022  
 Date of first issue: 11/30/2018

---

Assessment : tem, Liver  
 : May cause damage to organs through prolonged or repeated exposure.

### Repeated dose toxicity

#### Components:

##### **Albendazole Sulfoxide:**

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

Species : Dog  
 LOAEL : 48 mg/kg  
 Application Route : Oral  
 Exposure time : 4 Weeks  
 Target Organs : Gastrointestinal tract  
 Symptoms : Diarrhea, Vomiting

Species : Mouse  
 LOAEL : 40 mg/kg  
 Application Route : Oral  
 Exposure time : 3 Months  
 Target Organs : Blood, Liver, Nose  
 Symptoms : Hematologic effects, Liver effects

Species : Rat  
 LOAEL :  $\geq 30$  mg/kg  
 Application Route : Oral  
 Exposure time : 6 Months  
 Target Organs : Blood  
 Symptoms : Hematologic effects

Species : Dog  
 LOAEL : 40 mg/kg  
 Application Route : Oral  
 Exposure time : 6 Months  
 Target Organs : Blood, Liver  
 Symptoms : Hematologic effects, Liver effects

Species : Rat  
 NOAEL : 7 mg/kg  
 Application Route : Oral  
 Exposure time : 60 d  
 Target Organs : Liver, Testis  
 Symptoms : Liver effects, male reproductive effects

##### **Glycerine:**

Species : Rat  
 NOAEL : 0.167 mg/l

## Albendazole Sulfoxide (10%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 04/09/2022
2.2	10/01/2022	3884326-00009	Date of first issue: 11/30/2018

---

LOAEL : 0.622 mg/l  
 Application Route : inhalation (dust/mist/fume)  
 Exposure time : 13 Weeks

Species : Rat  
 NOAEL : 8,000 - 10,000 mg/kg  
 Application Route : Ingestion  
 Exposure time : 2 y

Species : Rabbit  
 NOAEL : 5,040 mg/kg  
 Application Route : Skin contact  
 Exposure time : 45 Weeks

### Aspiration toxicity

Not classified based on available information.

### Experience with human exposure

#### Components:

#### **Albendazole Sulfoxide:**

General Information : Symptoms: Allergic reactions, hair loss, Gastrointestinal disturbance, Headache, Dizziness

Skin contact : Target Organs: Skin  
 Symptoms: Allergic reactions  
 Remarks: May cause sensitization by skin contact.

Ingestion : Target Organs: Gastrointestinal tract  
 Symptoms: Gastrointestinal disturbance, Diarrhea, Abdominal pain  
 Target Organs: Central nervous system  
 Symptoms: Headache, Dizziness  
 Target Organs: Liver  
 Symptoms: liver function change  
 Target Organs: Immune system  
 Symptoms: immune system effects

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### **Albendazole Sulfoxide:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.024 mg/l  
 Exposure time: 48 h  
 Method: FDA 4.08

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): 50 mg/l  
 End point: Growth rate  
 Exposure time: 72 h  
 Method: FDA 4.01  
 Remarks: No toxicity at the limit of solubility.

ErC50 (Microcystis aeruginosa (blue-green algae)): 50 mg/l

**Albendazole Sulfoxide (10%) Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 04/09/2022
2.2	10/01/2022	3884326-00009	Date of first issue: 11/30/2018

---

End point: Growth rate  
Exposure time: 72 h  
Method: FDA 4.01  
Remarks: No toxicity at the limit of solubility.

**Glycerine:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,955 mg/l  
Exposure time: 48 h

Toxicity to microorganisms : NOEC (Pseudomonas putida): > 10,000 mg/l  
Exposure time: 16 h  
Method: DIN 38 412 Part 8

**Persistence and degradability****Components:****Glycerine:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 92 %  
Exposure time: 30 d  
Method: OECD Test Guideline 301D

**Bioaccumulative potential****Components:****Albendazole Sulfoxide:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 1.86

Partition coefficient: n-octanol/water : log Pow: 2.7

**Glycerine:**

Partition coefficient: n-octanol/water : log Pow: -1.75

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : 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.

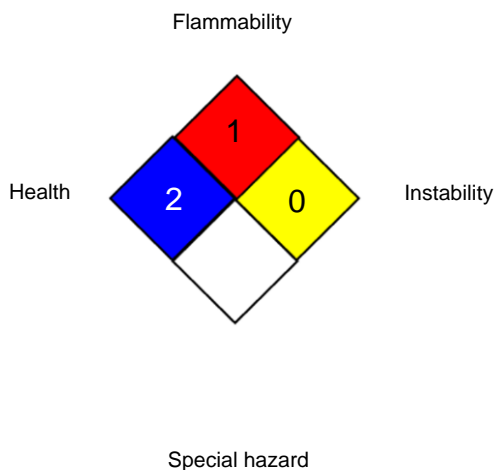




## Albendazole Sulfoxide (10%) Formulation

Version 2.2      Revision Date: 10/01/2022      SDS Number: 3884326-00009      Date of last issue: 04/09/2022  
 Date of first issue: 11/30/2018

### NFPA 704:



### HMIS® IV:

<b>HEALTH</b>	*	<b>3</b>
<b>FLAMMABILITY</b>		<b>1</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

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



**Albendazole Sulfoxide (10%) Formulation**

Version	Revision Date:	SDS Number:	Date of last issue: 04/09/2022
2.2	10/01/2022	3884326-00009	Date of first issue: 11/30/2018

---

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 Agency, <http://echa.europa.eu/>

Revision Date : 10/01/2022

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.

US / Z8