

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

**SECTION 1. IDENTIFICATION**

Product name : Albendazole Sulfoxide (1.9%) Formulation

**Manufacturer or supplier's details**

Company : MSD

Address : Talcahuano 750, 6th floor, Ciudad Autonoma  
Buenos Aires, Argentina C1013AAP

Telephone : 908-740-4000

Emergency telephone : 1-908-423-6000

E-mail address : EHSDATASTEWARD@msd.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**

Skin sensitization : Category 1

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 2

**GHS label elements**

Hazard pictograms :  

Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P261 Avoid breathing mist or vapors.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.

**Albendazole Sulfoxide (1.9%) Formulation**

Version 4.0      Revision Date: 14.04.2025      SDS Number: 3903423-00020      Date of last issue: 06.07.2024  
Date of first issue: 10.12.2018

**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

**Disposal:**

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

**Other hazards which do not result in classification**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

| Chemical name         | CAS-No.    | Concentration (% w/w) |
|-----------------------|------------|-----------------------|
| Glycerine             | 56-81-5    | $\geq 5$ -< 10        |
| Albendazole Sulfoxide | 54029-12-8 | $\geq 1$ -< 2,5       |

**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 : 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.  
Rinse mouth thoroughly with water.  
Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.

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.

**SECTION 5. FIRE-FIGHTING MEASURES**

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

- 
- |                                                |   |                                                                                                                                                                                                                                                 |
|------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : | Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>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<br>Nitrogen oxides (NO <sub>x</sub> )<br>Sulfur oxides                                                                                                                                                                            |
| Specific extinguishing methods                 | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for fire-fighters | : | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.                                                                                                                                            |
- 

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- 
- |                                                                     |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Environmental precautions                                           | : | Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g., by containment or oil barriers).<br>Retain and dispose of contaminated wash water.<br>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.<br>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.<br>Clean up remaining materials from spill with suitable absorbent.<br>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.<br>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

## Albendazole Sulfoxide (1.9%) Formulation

Version 4.0      Revision Date: 14.04.2025      SDS Number: 3903423-00020      Date of last issue: 06.07.2024  
Date of first issue: 10.12.2018

### 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 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<br>(Form of exposure) | Control parameters / Permissible concentration | Basis    |
|---------------------------|------------|----------------------------------|------------------------------------------------|----------|
| Glycerine                 | 56-81-5    | CMP (Mist)                       | 10 mg/m <sup>3</sup>                           | AR OEL   |
| Albendazole Sulfoxide     | 54029-12-8 | TWA                              | 45 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.  
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 containment devices).  
Minimize open handling.

#### Personal protective equipment

- 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
- Hand protection

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

---

|    |                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----|--------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| II | Material                 | : | Chemical-resistant gloves                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| II | Remarks                  | : | Consider double gloving.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|    | Eye protection           | : | Wear safety glasses with side shields or goggles.<br>If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.<br>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.<br>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.<br>Use appropriate degowning techniques to remove potentially contaminated clothing.                                                                                                                                                                                                                                                                                        |
|    | Hygiene measures         | : | If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.<br>When using do not eat, drink or smoke.<br>Contaminated work clothing should not be allowed out of the workplace.<br>Wash contaminated clothing before re-use.<br>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. |

---

**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                             | : | No data available |
| Evaporation rate                        | : | No data available |
| Flammability (solid, gas)               | : | Not applicable    |
| Flammability (liquids)                  | : | No data available |
| Upper explosion limit / Upper           | : | No data available |

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

flammability limit

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 characteristics

Particle size : Not applicable

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous 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.

**SECTION 11. TOXICOLOGICAL INFORMATION**

|                                          |                                                          |
|------------------------------------------|----------------------------------------------------------|
| Information on likely routes of exposure | : Inhalation<br>Skin contact<br>Ingestion<br>Eye contact |
|------------------------------------------|----------------------------------------------------------|

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

---

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate: > 5.000 mg/kg  
Method: Calculation method

**Components:****Glycerine:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Acute dermal toxicity : LD50 (Guinea pig): > 5.000 mg/kg

**Albendazole Sulfoxide:**

Acute oral toxicity : LD50 (Mouse): 1.500 mg/kg  
LD50 (Rat): 2.400 mg/kg  
Acute toxicity (other routes of administration) : LD50 (Rat): 265 mg/kg  
Application Route: Intravenous

**Skin corrosion/irritation**

Not classified based on available information.

**Components:****Glycerine:**

Species : Rabbit  
Result : No skin irritation

**Albendazole Sulfoxide:**

Species : Rabbit  
Result : No skin irritation

**Serious eye damage/eye irritation**

Not classified based on available information.

**Components:****Glycerine:**

Species : Rabbit  
Result : No eye irritation

**Albendazole Sulfoxide:**

Species : Rabbit  
Result : No eye irritation

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

**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:****Glycerine:**

|                       |                                                                             |
|-----------------------|-----------------------------------------------------------------------------|
| Genotoxicity in vitro | : Test Type: In vitro mammalian cell gene mutation test<br>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 synthesis in mammalian cells (in vitro)  
Result: negative

**Albendazole Sulfoxide:**

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative |
|-----------------------|--------------------------------------------------------------------------|

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

|                      |                                                                                                |
|----------------------|------------------------------------------------------------------------------------------------|
| Genotoxicity in vivo | : Test Type: Micronucleus test<br>Species: Mouse<br>Cell type: Bone marrow<br>Result: negative |
|----------------------|------------------------------------------------------------------------------------------------|



**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

---

**Carcinogenicity**

Not classified based on available information.

**Components:****Glycerine:**

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

**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. |
|------------------------------|-----------------------------------------------------|

**Reproductive toxicity**

Not classified based on available information.

**Components:****Glycerine:**

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

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

**Albendazole Sulfoxide:**

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

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

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

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.

**STOT-single exposure**

Not classified based on available information.

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

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

**STOT-repeated exposure**

Not classified based on available information.

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

|                    |                                                                        |
|--------------------|------------------------------------------------------------------------|
| Routes of exposure | : Oral                                                                 |
| Target Organs      | : Gastrointestinal tract, Central nervous system, Immune system, Liver |
| Assessment         | : May cause damage to organs through prolonged or repeated exposure.   |

**Repeated dose toxicity****Components:****Glycerine:**

|         |              |
|---------|--------------|
| Species | : Rat        |
| NOAEL   | : 0,167 mg/l |
| LOAEL   | : 0,622 mg/l |

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

|                   |                               |
|-------------------|-------------------------------|
| 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     |

**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             | : >= 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 |

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

**Symptoms** : Liver effects, male reproductive effects

**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<br>Symptoms: Allergic reactions<br>Remarks: May cause sensitization by skin contact.                                                                                                                                                                                                          |
| Ingestion           | : Target Organs: Gastrointestinal tract<br>Symptoms: Gastrointestinal disturbance, Diarrhea, Abdominal pain<br>Target Organs: Central nervous system<br>Symptoms: Headache, Dizziness<br>Target Organs: Liver<br>Symptoms: liver function change<br>Target Organs: Immune system<br>Symptoms: immune system effects |

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Glycerine:**

|                                                     |                                                                                                |
|-----------------------------------------------------|------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : LC50 (Oncorhynchus mykiss (rainbow trout)): 54.000 mg/l<br>Exposure time: 96 h               |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 1.955 mg/l<br>Exposure time: 48 h                         |
| Toxicity to microorganisms                          | : NOEC (Pseudomonas putida): > 10.000 mg/l<br>Exposure time: 16 h<br>Method: DIN 38 412 Part 8 |

**Albendazole Sulfoxide:**

|                                                     |                                                                                                                                 |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : EC50 (Brachydanio rerio (zebrafish)): 0,042 mg/l<br>Exposure time: 144 hrs                                                    |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 0,068 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                       |
| Toxicity to algae/aquatic plants                    | : EC50 (Raphidocelis subcapitata (freshwater green alga)): 0,024 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

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

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

**Bioaccumulative potential****Components:****Glycerine:**

Partition coefficient: n-octanol/water : log Pow: -1,75

**Albendazole Sulfoxide:**

Partition coefficient: n-octanol/water : log Pow: 1,27  
pH: 7

**Mobility in soil**

No data available

**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 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Albendazole Sulfoxide)

Class : 9  
Packing group : III

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

Labels : 9  
Environmentally hazardous : yes

**IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Albendazole Sulfoxide)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes

**IMDG-Code**

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

**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****Safety, health and environmental regulations/legislation specific for the substance or mixture**

Argentina. Carcinogenic Substances and Agents : Not applicable  
Registry.

Control of precursors and essential chemicals for the : Not applicable  
preparation of drugs.

**The ingredients of this product are reported in the following inventories:**

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

**SECTION 16. OTHER INFORMATION**

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

Revision Date : 14.04.2025  
Date format : dd.mm.yyyy

**Further information**

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/>

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

**Full text of other abbreviations**

AR OEL : Argentina. Occupational Exposure Limits

AR OEL / CMP : TLV (Threshold Limit 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 - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific

**Albendazole Sulfoxide (1.9%) Formulation**

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 06.07.2024  |
| 4.0     | 14.04.2025     | 3903423-00020 | Date of first issue: 10.12.2018 |

---

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.

AR / Z8