

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Albendazole Formulation

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number:    | Date of last issue: 04/14/2025  |
| 6.0     | 06/20/2025     | 10232217-00017 | Date of first issue: 11/16/2021 |

### SECTION 1. IDENTIFICATION

Product name : Albendazole 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

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

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) mune system, Liver)

#### Other hazards

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

#### GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.  
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.

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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 dust.  
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 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.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

**Storage:**  
P405 Store locked up.

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

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

| Chemical name         | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|-----------------------|-------------------|-----------------------|--------------|
| Albendazole Sulfoxide | 54029-12-8*       | >= 30 - <= 60         | TSC          |
| Cellulose             | 9004-34-6*        | >= 10 - <= 30         | TSC          |

\* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range 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

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|                                                             |                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                             | advice.                                                                                                                                                                                                                                                                                                                                                       |
| If inhaled                                                  | : If inhaled, remove to fresh air.<br>Get medical attention.                                                                                                                                                                                                                                                                                                  |
| In case of skin contact                                     | : In case of contact, immediately flush skin with soap and plenty of water.<br>Remove contaminated clothing and shoes.<br>Get medical attention.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse.                                                                                                                                       |
| In case of eye contact                                      | : If in eyes, rinse well with water.<br>Get medical attention if irritation develops and persists.                                                                                                                                                                                                                                                            |
| If swallowed                                                | : If swallowed, DO NOT induce vomiting.<br>Get medical attention.<br>Rinse mouth thoroughly with water.<br>Never give anything by mouth to an unconscious person.                                                                                                                                                                                             |
| Most important symptoms and effects, both acute and delayed | : Contact with dust can cause mechanical irritation or drying of the skin.<br>Dust contact with the eyes can lead to mechanical irritation.<br>May cause an allergic skin reaction.<br>Suspected of damaging the unborn child.<br>May cause damage to organs if swallowed.<br>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.                                                                                                                                                                                                                                                                                                                     |

### SECTION 5. FIRE-FIGHTING MEASURES

|                                       |                                                                                                                                                                                                                                                   |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media          | : Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>Dry chemical                                                                                                                                                                   |
| Unsuitable extinguishing media        | : None known.                                                                                                                                                                                                                                     |
| Specific hazards during fire fighting | : Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.<br>Exposure to combustion products may be a hazard to health.                   |
| Hazardous combustion products         | : Carbon oxides<br>Nitrogen oxides (NOx)<br>Sulfur oxides<br>Metal 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. |

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Special protective equipment : In the event of fire, wear self-contained breathing apparatus.  
for fire-fighters Use personal protective equipment.

### 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.  
Retain and dispose of contaminated wash water.  
Local authorities should be advised if significant spillages cannot be contained.

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

### SECTION 7. HANDLING AND STORAGE

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

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Do not get on skin or clothing.  
Do not breathe dust.  
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  
Minimize dust generation and accumulation.  
Keep container closed when not in use.  
Keep away from heat and sources of ignition.  
Take precautionary measures against static discharges.  
Do not eat, drink or smoke when using this product.  
Take care to prevent spills, waste and minimize release to the

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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

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

inert or nuisance dust      50 Million particles per cubic foot  
Value type (Form of exposure): TWA (total dust)  
Basis: OSHA Z-3  
  
15 mg/m<sup>3</sup>  
Value type (Form of exposure): TWA (total dust)  
Basis: OSHA Z-3  
  
5 mg/m<sup>3</sup>  
Value type (Form of exposure): TWA (respirable fraction)  
Basis: OSHA Z-3  
  
15 Million particles per cubic foot  
Value type (Form of exposure): TWA (respirable fraction)  
Basis: OSHA Z-3  
  
Dust, nuisance dust and particulates      10 mg/m<sup>3</sup>  
Value type (Form of exposure): PEL (Total dust)  
Basis: CAL PEL  
  
5 mg/m<sup>3</sup>  
Value type (Form of exposure): PEL (respirable dust fraction)  
Basis: CAL PEL

| Components            | CAS-No.                   | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis     |
|-----------------------|---------------------------|-------------------------------|------------------------------------------------|-----------|
| 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  |
| Cellulose             | 9004-34-6                 | TWA                           | 10 mg/m <sup>3</sup>                           | ACGIH     |
|                       |                           | TWA (Respirable)              | 5 mg/m <sup>3</sup>                            | NIOSH REL |
|                       |                           | TWA (total)                   | 10 mg/m <sup>3</sup>                           | NIOSH REL |
|                       |                           | TWA (total dust)              | 15 mg/m <sup>3</sup>                           | OSHA Z-1  |
|                       |                           | TWA (respirable fraction)     | 5 mg/m <sup>3</sup>                            | OSHA Z-1  |

Engineering measures : All engineering controls should be implemented by facility

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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 : General and local exhaust ventilation is recommended to 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

Remarks : Consider double gloving.

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. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. 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. 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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

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|                                                  |   |                                                                                 |
|--------------------------------------------------|---|---------------------------------------------------------------------------------|
| Color                                            | : | cream                                                                           |
| 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                                                               |
| Flammability (solid, gas)                        | : | May form explosive dust-air mixture during processing, handling or other means. |
| Flammability (liquids)                           | : | Not applicable                                                                  |
| Upper explosion limit / Upper flammability limit | : | No data available                                                               |
| Lower explosion limit / Lower flammability limit | : | No data available                                                               |
| Vapor pressure                                   | : | Not applicable                                                                  |
| Relative vapor density                           | : | Not applicable                                                                  |
| Relative density                                 | : | No data available                                                               |
| Density                                          | : | No data available                                                               |
| Solubility(ies)<br>Water solubility              | : | No data available                                                               |
| Partition coefficient: n-octanol/water           | : | Not applicable                                                                  |
| Autoignition temperature                         | : | No data available                                                               |
| Decomposition temperature                        | : | No data available                                                               |
| Viscosity<br>Viscosity, kinematic                | : | Not applicable                                                                  |
| Explosive properties                             | : | Not explosive                                                                   |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing.                        |

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Molecular weight : No data available

Particle characteristics

Particle size : No data available

### SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.  
Chemical stability : Stable under normal conditions.  
Possibility of hazardous reactions : May form explosive dust-air mixture during processing, handling or other means.  
Can react with strong oxidizing agents.

Conditions to avoid : Heat, flames and sparks.  
Avoid dust formation.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 3,000 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 administration) : LD50 (Rat): 265 mg/kg  
Application Route: Intravenous

##### Cellulose:

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

Acute inhalation toxicity : LC50 (Rat): > 5.8 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

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Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### Albendazole Sulfoxide:

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

### 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)<br>Result: negative                          |
|                       | Test Type: Chromosomal aberration<br>Test system: Chinese hamster ovary cells<br>Result: negative |

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

### Cellulose:

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

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

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Application Route: Ingestion  
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.

### Cellulose:

Species : Rat  
Application Route : Ingestion  
Exposure time : 72 weeks  
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

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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<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<br>Result: Embryotoxic effects., Skeletal malformations.<br><br>Test Type: Development<br>Species: Rabbit<br>Application Route: Oral<br>Developmental Toxicity: LOAEL: 30 mg/kg body weight<br>Result: Embryotoxic effects., Skeletal malformations.,<br>Maternal toxicity observed.<br><br>Test Type: Development<br>Species: Rat<br>Application Route: Oral<br>Developmental Toxicity: NOAEL: 5.8 mg/kg body weight<br>Result: Effects on postnatal development.<br><br>Test Type: Development<br>Species: Rat<br>Application Route: Oral<br>Developmental Toxicity: LOAEL: 7 mg/kg body weight<br>Result: Embryotoxic effects and adverse effects on the<br>offspring were detected. |
| Reproductive toxicity - Assessment | : Suspected of damaging the unborn child.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

#### Cellulose:

|                              |                                                                                                                             |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Effects on fertility         | : Test Type: One-generation reproduction toxicity study<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative |
| Effects on fetal development | : Test Type: Fertility/early embryonic development<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative      |

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### 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 system, Liver |
| Assessment         | : 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        |

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

### Cellulose:

|                   |                  |
|-------------------|------------------|
| Species           | : Rat            |
| NOAEL             | : >= 9,000 mg/kg |
| Application Route | : Ingestion      |
| Exposure time     | : 90 Days        |

### 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:

#### Albendazole Sulfoxide:

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

### Cellulose:

|                  |   |                                                                                                                              |
|------------------|---|------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish | : | LC50 (Oryzias latipes (Japanese medaka)): > 100 mg/l<br>Exposure time: 48 h<br>Remarks: Based on data from similar materials |
|------------------|---|------------------------------------------------------------------------------------------------------------------------------|

### Persistence and degradability

#### Components:

#### Cellulose:

|                  |   |                                |
|------------------|---|--------------------------------|
| Biodegradability | : | Result: Readily biodegradable. |
|------------------|---|--------------------------------|

### Bioaccumulative potential

#### Components:

#### Albendazole Sulfoxide:

|                                        |   |                        |
|----------------------------------------|---|------------------------|
| Partition coefficient: n-octanol/water | : | log Pow: 1.27<br>pH: 7 |
|----------------------------------------|---|------------------------|

### Mobility in soil

No data available

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

|                        |   |                                                                                                                                                             |
|------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste from residues    | : | Dispose of in accordance with local regulations.<br>Do not dispose of waste into sewer.                                                                     |
| Contaminated packaging | : | Empty containers should be taken to an approved waste handling site for recycling or disposal.<br>If not otherwise specified: Dispose of as unused product. |

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

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### UNRTDG

|                           |                                                                              |
|---------------------------|------------------------------------------------------------------------------|
| UN number                 | : UN 3077                                                                    |
| Proper shipping name      | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Albendazole Sulfoxide) |
| Class                     | : 9                                                                          |
| Packing group             | : III                                                                        |
| Labels                    | : 9                                                                          |
| Environmentally hazardous | : yes                                                                        |

### IATA-DGR

|                                          |                                                                              |
|------------------------------------------|------------------------------------------------------------------------------|
| UN/ID No.                                | : UN 3077                                                                    |
| Proper shipping name                     | : Environmentally hazardous substance, solid, n.o.s. (Albendazole Sulfoxide) |
| Class                                    | : 9                                                                          |
| Packing group                            | : III                                                                        |
| Labels                                   | : Miscellaneous                                                              |
| Packing instruction (cargo aircraft)     | : 956                                                                        |
| Packing instruction (passenger aircraft) | : 956                                                                        |
| Environmentally hazardous                | : yes                                                                        |

### IMDG-Code

|                      |                                                                              |
|----------------------|------------------------------------------------------------------------------|
| UN number            | : UN 3077                                                                    |
| Proper shipping name | : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, 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 IMO instruments

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

|                      |                                                                                                                                                                                                                                                           |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UN/ID/NA number      | : UN 3077                                                                                                                                                                                                                                                 |
| Proper shipping name | : Environmentally hazardous substance, solid, n.o.s. (Albendazole Sulfoxide)                                                                                                                                                                              |
| Class                | : 9                                                                                                                                                                                                                                                       |
| Packing group        | : III                                                                                                                                                                                                                                                     |
| Labels               | : CLASS 9                                                                                                                                                                                                                                                 |
| ERG Code             | : 171                                                                                                                                                                                                                                                     |
| Marine pollutant     | : yes(Albendazole Sulfoxide)                                                                                                                                                                                                                              |
| Remarks              | : Above applies only to containers over 119 gallons or 450 liters.<br>Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO. |

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### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

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

### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

**SARA 311/312 Hazards** : Combustible dust  
Respiratory or skin sensitization  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### Pennsylvania Right To Know

|                                          |            |
|------------------------------------------|------------|
| Albendazole Sulfoxide                    | 54029-12-8 |
| Cellulose                                | 9004-34-6  |
| Starch, carboxymethyl ether, sodium salt | 9063-38-1  |
| Polyvinyl pyrrolidone                    | 9003-39-8  |

#### California List of Hazardous Substances

|                       |           |
|-----------------------|-----------|
| Polyvinyl pyrrolidone | 9003-39-8 |
|-----------------------|-----------|

#### California Permissible Exposure Limits for Chemical Contaminants

|           |           |
|-----------|-----------|
| Cellulose | 9004-34-6 |
|-----------|-----------|

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

|       |                  |
|-------|------------------|
| AICS  | : not determined |
| DSL   | : not determined |
| IECSC | : not determined |

## SECTION 16. OTHER INFORMATION

### Further information

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## Albendazole Formulation

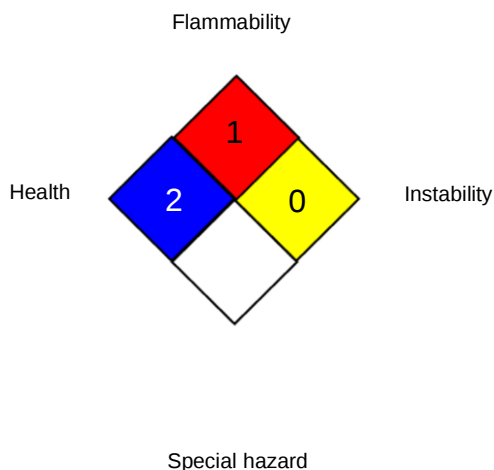
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### NFPA 704:



### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | * | 3 |
| FLAMMABILITY    |   | 3 |
| PHYSICAL HAZARD |   | 0 |

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

|                 |   |                                                                                           |
|-----------------|---|-------------------------------------------------------------------------------------------|
| ACGIH           | : | USA. ACGIH Threshold Limit Values (TLV)                                                   |
| CAL PEL         | : | California permissible exposure limits for chemical contaminants (Title 8, Article 107)   |
| NIOSH REL       | : | USA. NIOSH Recommended Exposure Limits                                                    |
| OSHA Z-1        | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants          |
| OSHA Z-3        | : | USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts                        |
| ACGIH / TWA     | : | 8-hour, time-weighted average                                                             |
| CAL PEL / PEL   | : | Permissible exposure limit                                                                |
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| OSHA Z-1 / TWA  | : | 8-hour time weighted average                                                              |
| OSHA Z-3 / TWA  | : | 8-hour time weighted average                                                              |

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 Pre-

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vention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to 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 : 06/20/2025

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

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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