

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758



## Fenbendazole (4%) Solid Formulation

Version 6.0      Revision Date: 14.04.2025      SDS Number: 9374030-00011      Date of last issue: 28.09.2024  
Date of first issue: 27.08.2021

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : Fenbendazole (4%) Solid Formulation

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Veterinary product

Recommended restrictions on use : Not applicable

#### 1.3 Details of the supplier of the safety data sheet

Company : MSD  
Walton Manor, Walton  
MK7 7AJ Milton Keynes - United Kingdom

Telephone : +1-908-740-4000

E-mail address of person responsible for the SDS : EHSDATASTEWARD@msd.com

#### 1.4 Emergency telephone number

+1-908-423-6000

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

|  |  |
|--|--|
| Reproductive toxicity, Category 2              | H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child. |
| Short-term (acute) aquatic hazard, Category 1  | H400: Very toxic to aquatic life.  |
| Long-term (chronic) aquatic hazard, Category 1 | H410: Very toxic to aquatic life with long lasting effects.                      |

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### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms



Signal word

: Warning

Hazard statements

: H361fd Suspected of damaging fertility. Suspected of  
damaging the unborn child.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**

P201 Obtain special instructions before use.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye  
protection/ face protection.

**Response:**

P308 + P313 IF exposed or concerned: Get medical advice/  
attention.  
P391 Collect spillage.

**Storage:**

P405 Store locked up.

Hazardous components which must be listed on the label:

fenbendazole

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Dust contact with the eyes can lead to mechanical irritation.

Contact with dust can cause mechanical irritation or drying of the skin.

May form explosive dust-air mixture during processing, handling or other means.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification  | Concentration<br>(% w/w) |
|---------------|---|-----------------|--------------------------|
| fenbendazole  | 43210-67-9  | Repr. 2; H361fd | >= 3 - < 10              |

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|  |                        |  |              |
|--|------------------------|--|--------------|
|  | 256-145-7              | STOT RE 2; H373<br>(Liver, Stomach, Nervous system, Lymph nodes)<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410 |              |
| Substances with a workplace exposure limit : |                        |  |              |
| Calcium carbonate                            | 471-34-1<br>207-439-9  |  | >= 30 - < 50 |
| Starch                                       | 9005-25-8<br>232-679-6 |  | >= 30 - < 50 |
| Silica                                       | 71187-19-4             |  | >= 1 - < 10  |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of 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.

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).

If inhaled : If inhaled, remove to fresh air.  
Get medical attention.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.  
Remove contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.

In case of eye contact : If in eyes, rinse well with water.  
Get medical attention if irritation develops and persists.

If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention.

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Rinse mouth thoroughly with water.

### 4.2 Most important symptoms and effects, both acute and delayed

Risks : Contact with dust can cause mechanical irritation or drying of the skin.  
Dust contact with the eyes can lead to mechanical irritation.  
  
Suspected of damaging fertility. Suspected of damaging the unborn child.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing media : None known.

### 5.2 Special hazards arising from the substance or mixture

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.  
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Metal oxides  
Silicon oxides

### 5.3 Advice for firefighters

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

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.  
Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

### 6.2 Environmental precautions

Environmental precautions : Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

### 6.3 Methods and material for containment and cleaning up

Methods for 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.

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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 breathe dust. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. 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.

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Keep away from heat and sources of ignition.  
Take precautionary measures against static discharges.  
Take care to prevent spills, waste and minimize release to the environment.

### 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. 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.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

dust of any kind

10 mg/m<sup>3</sup>

Value type (Form of exposure): TWA (Inhalable)

Basis: GB EH40

4 mg/m<sup>3</sup>

Value type (Form of exposure): TWA (Respirable fraction)

Basis: GB EH40

| Components        | CAS-No.    | Value type (Form of exposure) | Control parameters            | Basis    |
|-------------------|------------|-------------------------------|-------------------------------|----------|
| Calcium carbonate | 471-34-1   | TWA (inhalable dust)          | 10 mg/m <sup>3</sup>          | GB EH40  |
|                   |            | TWA (Respirable dust)         | 4 mg/m <sup>3</sup>           | GB EH40  |
| Starch            | 9005-25-8  | TWA (inhalable dust)          | 10 mg/m <sup>3</sup>          | GB EH40  |
|                   |            | TWA (Respirable dust)         | 4 mg/m <sup>3</sup>           | GB EH40  |
| fenbendazole      | 43210-67-9 | TWA                           | 100 µg/m <sup>3</sup> (OEB 2) | Internal |
| Silica            | 71187-19-4 | TWA (inhalable dust)          | 6 mg/m <sup>3</sup> (Silica)  | GB EH40  |

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|  |  |                       |                                   |         |
|--|--|-----------------------|-----------------------------------|---------|
|  |  | TWA (Respirable dust) | 2.4 mg/m <sup>3</sup><br>(Silica) | GB EH40 |
|--|--|-----------------------|-----------------------------------|---------|

### Derived No Effect Level (DNEL)

| Substance name    | End Use   | Exposure routes | Potential health effects   | Value                  |
|-------------------|-----------|-----------------|----------------------------|------------------------|
| Calcium carbonate | Workers   | Inhalation      | Long-term systemic effects | 6.36 mg/m <sup>3</sup> |
|                   | Consumers | Ingestion       | Acute systemic effects     | 6.1 mg/kg bw/day       |
|                   | Consumers | Inhalation      | Long-term systemic effects | 1.06 mg/m <sup>3</sup> |
|                   | Consumers | Ingestion       | Long-term systemic effects | 6.1 mg/kg bw/day       |

### Predicted No Effect Concentration (PNEC)

| Substance name    | Environmental Compartment | Value       |
|-------------------|---------------------------|-------------|
| fenbendazole      |                           | 0.0001 mg/l |
| Calcium carbonate | Sewage treatment plant    | 100 mg/l    |

## 8.2 Exposure controls

### Engineering measures

Use feasible engineering controls to minimize exposure to compound.

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

### Personal protective equipment

|                          |  |
|--------------------------|--|
| Eye/face 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. |
| Hand protection          |  |
| Material                 | : Chemical-resistant gloves  |
| Skin and body protection | : Work uniform or laboratory coat.   |
| Respiratory protection   | : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.<br>Equipment should conform to BS EN 143  |
| Filter type              | : Particulates type (P)  |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                 |                     |
|-----------------|---------------------|
| Appearance      | : powder            |
| Colour          | : white             |
| Odour           | : odourless         |
| Odour Threshold | : No data available |

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|  |   |   |
|--|---|---|
| pH   | : | 6 - 8   |
| Melting point/freezing point                     | : | No data available   |
| Initial boiling point and boiling range          | : | Not applicable  |
| Flash point                                      | : | Not applicable  |
| Evaporation rate                                 | : | Not applicable  |
| Flammability (solid, gas)                        | : | May form explosive dust-air mixture during processing, handling or other means. |
| Flammability (liquids)                           | : | Not applicable  |
| Upper explosion limit / Upper flammability limit | : | No data available   |
| Lower explosion limit / Lower flammability limit | : | No data available   |
| Vapour pressure                                  | : | No data available   |
| Relative vapour density                          | : | Not applicable  |
| Relative density                                 | : | No data available   |
| Density  | : | No data available   |
| Solubility(ies)                                  |   |   |
| Water solubility                                 | : | insoluble   |
| Solubility in other solvents                     | : | No data available   |
| Partition coefficient: n-octanol/water           | : | Not applicable  |
| Auto-ignition temperature                        | : | No data available   |
| Decomposition temperature                        | : | No data available   |
| Viscosity  |   |   |
| Viscosity, kinematic                             | : | Not applicable  |
| Explosive properties                             | : | Not explosive   |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing.                        |

### 9.2 Other information

|                  |   |                   |
|------------------|---|-------------------|
| Molecular weight | : | No data available |
| Particle size    | : | No data available |
| Self-ignition    | : | No data available |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : May form explosive dust-air mixture during processing, handling or other means.  
Can react with strong oxidizing agents.

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Components:

##### **fenbendazole:**

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg  
LD50 (Mouse): > 10,000 mg/kg

##### **Calcium carbonate:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 420  
Assessment: The substance or mixture has no acute oral toxicity

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Acute inhalation toxicity : LC50 (Rat): > 3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **Starch:**

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

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

### **Silica:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Remarks: Based on data from similar materials

### **Skin corrosion/irritation**

Not classified based on available information.

### **Components:**

#### **fenbendazole:**

Species : Rabbit  
Result : No skin irritation

#### **Calcium carbonate:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### **Silica:**

Result : No skin irritation  
Remarks : Based on data from similar materials

### **Serious eye damage/eye irritation**

Not classified based on available information.

### **Components:**

#### **fenbendazole:**

Species : Rabbit  
Result : No eye irritation

#### **Calcium carbonate:**

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

## Starch-

Species : Rabbit  
Result : No eye irritation

## Silica-

|         |   |                                      |
|---------|---|--------------------------------------|
| Species | : | Rabbit                               |
| Method  | : | Draize Test                          |
| Result  | : | No eye irritation                    |
| Remarks | : | Based on data from similar materials |

### **Respiratory or skin sensitisation**

## Skin sensitisation

Not classified based on available information.

## Respiratory sensitisation

Not classified based on available information.

## Components:

## Calcium carbonate:

|                 |   |                               |
|-----------------|---|-------------------------------|
| Test Type       | : | Local lymph node assay (LLNA) |
| Exposure routes | : | Skin contact                  |
| Species         | : | Mouse                         |
| Method          | : | OECD Test Guideline 429       |
| Result          | : | negative                      |

## Starch-

|                 |                     |
|-----------------|---------------------|
| Test Type       | : Maximisation Test |
| Exposure routes | : Skin contact      |
| Species         | : Guinea pig        |
| Result          | : negative          |

## Germ cell mutagenicity

Not classified based on available information.

## **Components:**

## **fenbendazole:**

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

Test Type: DNA Repair  
Result: negative

Test Type: Chromosomal aberration  
Result: negative

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Test Type: in vitro assay  
Test system: mouse lymphoma cells  
Metabolic activation: Metabolic activation  
Result: equivocal

### Calcium carbonate:

|                       |  |
|-----------------------|--|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES)<br>Method: OECD Test Guideline 471<br>Result: negative  |
|                       | Test Type: Chromosome aberration test in vitro<br>Method: OECD Test Guideline 473<br>Result: negative        |
|                       | Test Type: In vitro mammalian cell gene mutation test<br>Method: OECD Test Guideline 476<br>Result: negative |

### Starch:

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

### Silica:

|                       |   |
|-----------------------|---|
| Genotoxicity in vitro | : Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative<br>Remarks: Based on data from similar materials |
|-----------------------|---|

### Carcinogenicity

Not classified based on available information.

### Components:

#### **fenbendazole:**

|                   |                         |
|-------------------|-------------------------|
| Species           | : Mouse                 |
| Application Route | : oral (feed)           |
| Exposure time     | : 2 Years               |
| NOAEL             | : 405 mg/kg body weight |
| Result            | : negative              |

|                   |                       |
|-------------------|-----------------------|
| Species           | : Rat                 |
| Application Route | : Oral                |
| Exposure time     | : 2 Years             |
| NOAEL             | : 5 mg/kg body weight |
| Result            | : negative            |
| Target Organs     | : Lymph nodes, Liver  |

### **Reproductive toxicity**

Suspected of damaging fertility. Suspected of damaging the unborn child.

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### Components:

#### **fenbendazole:**

Effects on fertility

: Test Type: Three-generation reproduction toxicity study  
Species: Rat  
Application Route: oral (feed)  
General Toxicity - Parent: NOAEL: 15 mg/kg body weight  
Fertility: LOAEL: 45 mg/kg body weight  
Result: Effects on fertility

Effects on foetal development

: Test Type: Development  
Species: Dog, female  
Application Route: Oral  
Developmental Toxicity: LOAEL: 100 mg/kg body weight  
Result: Embryotoxic effects and adverse effects on the offspring were detected., No teratogenic effects

Test Type: Embryo-foetal development

Species: Rabbit  
Application Route: Oral  
Developmental Toxicity: NOAEL: 25 mg/kg body weight  
Result: Fetotoxicity

Test Type: Embryo-foetal development

Species: Rabbit  
Application Route: Oral  
Developmental Toxicity: LOAEL: 63 mg/kg body weight

Test Type: Embryo-foetal development

Species: Rat  
Application Route: Oral  
Developmental Toxicity: NOAEL: 120 mg/kg body weight  
Result: No effects on foetal development

Reproductive toxicity - Assessment

: Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.

#### **Calcium carbonate:**

Effects on fertility

: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 422  
Result: negative

Effects on foetal development

: Test Type: Embryo-foetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

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### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

#### Components:

##### **fenbendazole:**

|                 |   |  |
|-----------------|---|--|
| Exposure routes | : | Ingestion  |
| Target Organs   | : | Liver, Stomach, Nervous system, Lymph nodes                        |
| Assessment      | : | May cause damage to organs through prolonged or repeated exposure. |

#### Repeated dose toxicity

#### Components:

##### **fenbendazole:**

|                   |   |               |
|-------------------|---|---------------|
| Species           | : | Rat           |
| LOAEL             | : | 500 mg/kg     |
| Application Route | : | Oral          |
| Exposure time     | : | 2 Weeks       |
| Target Organs     | : | Kidney, Liver |

|                   |   |  |
|-------------------|---|--|
| Species           | : | Rat  |
| NOAEL             | : | > 2,500 mg/kg                                |
| Application Route | : | Oral   |
| Exposure time     | : | 30 Days                                      |
| Remarks           | : | No significant adverse effects were reported |

|                   |   |                        |
|-------------------|---|------------------------|
| Species           | : | Rat                    |
| LOAEL             | : | 1,600 mg/kg            |
| Application Route | : | Oral                   |
| Exposure time     | : | 90 Days                |
| Target Organs     | : | Central nervous system |
| Symptoms          | : | Tremors                |

|               |   |                                      |
|---------------|---|--------------------------------------|
| Species       | : | Dog                                  |
| NOAEL         | : | 4 mg/kg                              |
| LOAEL         | : | 8 mg/kg                              |
| Exposure time | : | 6 Months                             |
| Target Organs | : | Stomach, Nervous system, Lymph nodes |

##### **Calcium carbonate:**

|                   |   |                         |
|-------------------|---|-------------------------|
| Species           | : | Rat                     |
| NOAEL             | : | > 1,000 mg/kg           |
| Application Route | : | Ingestion               |
| Exposure time     | : | 28 Days                 |
| Method            | : | OECD Test Guideline 422 |

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UK REACH Regulations SI 2019/758



## Fenbendazole (4%) Solid Formulation

Version 6.0      Revision Date: 14.04.2025      SDS Number: 9374030-00011      Date of last issue: 28.09.2024  
Date of first issue: 27.08.2021

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### **Starch:**

|                   |   |                         |
|-------------------|---|-------------------------|
| Species           | : | Rat                     |
| NOAEL             | : | $\geq 2,000$ mg/kg      |
| Application Route | : | Skin contact            |
| Exposure time     | : | 28 Days                 |
| Method            | : | OECD Test Guideline 410 |

### **Aspiration toxicity**

Not classified based on available information.

### **Components:**

#### **fenbendazole:**

|  |                                       |
|--|---------------------------------------|
|  | No aspiration toxicity classification |
|--|---------------------------------------|

### **Experience with human exposure**

### **Components:**

#### **fenbendazole:**

|  |  |
|--|--|
|  | Ingestion : Symptoms: Rapid respiration, Salivation, anorexia, Diarrhoea |
|--|--|

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

### **Components:**

#### **fenbendazole:**

|  |   |
|--|---|
|  | Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.009 mg/l<br>Exposure time: 21 d   |
|  | Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0088 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                                  |
|  | M-Factor (Acute aquatic toxicity) : 100   |
|  | Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.00113 mg/l<br>Exposure time: 21 Days<br>Species: Daphnia magna (Water flea)<br>Method: OECD Test Guideline 211 |
|  | M-Factor (Chronic aquatic toxicity) : 10  |

#### **Calcium carbonate:**

|  |  |
|--|--|
|  | Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l<br>Exposure time: 96 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 203 |
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|   |   |
|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : EL50 (Daphnia magna (Water flea)): > 100 mg/l<br>Exposure time: 48 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 202                  |
| Toxicity to algae/aquatic plants                    | : NOELR (Pseudokirchneriella subcapitata (green algae)): 50 mg/l<br>Exposure time: 72 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 201 |
|   | EL50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l<br>Exposure time: 72 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 201 |
| Toxicity to microorganisms                          | : NOEC : 1,000 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209  |

### **Silica:**

|                                  |  |
|----------------------------------|--|
| Toxicity to fish                 | : LC50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: Based on data from similar materials |
| Toxicity to algae/aquatic plants | : EC50 : > 10,000 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials                                |

## 12.2 Persistence and degradability

No data available

## 12.3 Bioaccumulative potential

### **Components:**

#### **fenbendazole:**

|  |                 |
|--|-----------------|
| Partition coefficient: n-octanol/water | : log Pow: 3.32 |
|--|-----------------|

## 12.4 Mobility in soil

### **Components:**

#### **fenbendazole:**

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**|||** Distribution among environmental compartments : log Koc: 3.8 - 4.7  
Method: FDA 3.08

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

#### Product:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.  
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.  
Do not dispose of waste into sewer.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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## SECTION 14: Transport information

### 14.1 UN number

|      |   |         |
|------|---|---------|
| ADN  | : | UN 3077 |
| ADR  | : | UN 3077 |
| RID  | : | UN 3077 |
| IMDG | : | UN 3077 |
| IATA | : | UN 3077 |

### 14.2 UN proper shipping name

|     |   |  |
|-----|---|--|
| ADN | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(fenbendazole) |
| ADR | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.                   |

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(fenbendazole)

|             |   |  |
|-------------|---|--|
| <b>RID</b>  | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(fenbendazole) |
| <b>IMDG</b> | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(fenbendazole) |
| <b>IATA</b> | : | Environmentally hazardous substance, solid, n.o.s.<br>(fenbendazole) |

### 14.3 Transport hazard class(es)

|             | Class | Subsidiary risks |
|-------------|-------|------------------|
| <b>ADN</b>  | :     | 9                |
| <b>ADR</b>  | :     | 9                |
| <b>RID</b>  | :     | 9                |
| <b>IMDG</b> | :     | 9                |
| <b>IATA</b> | :     | 9                |

### 14.4 Packing group

|                                      |   |               |
|--------------------------------------|---|---------------|
| <b>ADN</b>                           |   |               |
| Packing group                        | : | III           |
| Classification Code                  | : | M7            |
| Hazard Identification Number         | : | 90            |
| Labels                               | : | 9             |
| <b>ADR</b>                           |   |               |
| Packing group                        | : | III           |
| Classification Code                  | : | M7            |
| Hazard Identification Number         | : | 90            |
| Labels                               | : | 9             |
| Tunnel restriction code              | : | (-)           |
| <b>RID</b>                           |   |               |
| Packing group                        | : | III           |
| Classification Code                  | : | M7            |
| Hazard Identification Number         | : | 90            |
| Labels                               | : | 9             |
| <b>IMDG</b>                          |   |               |
| Packing group                        | : | III           |
| Labels                               | : | 9             |
| EmS Code                             | : | F-A, S-F      |
| <b>IATA (Cargo)</b>                  |   |               |
| Packing instruction (cargo aircraft) | : | 956           |
| Packing instruction (LQ)             | : | Y956          |
| Packing group                        | : | III           |
| Labels                               | : | Miscellaneous |
| <b>IATA (Passenger)</b>              |   |               |

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

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|  |   |               |
|--|---|---------------|
| Packing instruction (passenger aircraft) | : | 956           |
| Packing instruction (LQ)                 | : | Y956          |
| Packing group                            | : | III           |
| Labels                                   | : | Miscellaneous |

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

#### IATA (Passenger)

Environmentally hazardous : yes

#### IATA (Cargo)

Environmentally hazardous : yes

### 14.6 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.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

|   |   |                |
|---|---|----------------|
| UK REACH List of restrictions (Annex 17)  | : | Not applicable |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation                             | : | Not applicable |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : | Not applicable |
| Regulation (EU) No 2024/590 on substances that deplete the ozone layer  | : | Not applicable |
| UK REACH List of substances subject to authorisation (Annex XIV)  | : | Not applicable |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation                           | : | Not applicable |
| Control of Major Accident Hazards Regulations 2015 (COMAH)  |   |                |

Quantity 1      Quantity 2

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

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|    |                          |       |       |
|----|--------------------------|-------|-------|
| E1 | ENVIRONMENTAL<br>HAZARDS | 100 t | 200 t |
|----|--------------------------|-------|-------|

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

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

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

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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## SECTION 16: Other information

|                   |   |  |
|-------------------|---|--|
| Other information | : | 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 H-Statements

|        |   |   |
|--------|---|---|
| H361fd | : | Suspected of damaging fertility. Suspected of damaging the unborn child.        |
| H373   | : | May cause damage to organs through prolonged or repeated exposure if swallowed. |
| H400   | : | Very toxic to aquatic life.   |
| H410   | : | Very toxic to aquatic life with long lasting effects.                           |

### Full text of other abbreviations

|                 |   |  |
|-----------------|---|--|
| Aquatic Acute   | : | Short-term (acute) aquatic hazard                      |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard                     |
| Repr.           | : | Reproductive toxicity                                  |
| STOT RE         | : | Specific target organ toxicity - repeated exposure     |
| GB EH40         | : | UK. EH40 WEL - Workplace Exposure Limits               |
| GB EH40 / TWA   | : | Long-term exposure limit (8-hour TWA reference period) |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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 car-

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rying 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; KECL - 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; 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

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

### Classification of the mixture:

|                   |        |
|-------------------|--------|
| Repr. 2           | H361fd |
| Aquatic Acute 1   | H400   |
| Aquatic Chronic 1 | H410   |

### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |
| Calculation method |

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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.

GB / EN