SAFETY DATA SHEET
according to the Hazardous Products Regulations

Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

Version 1.2
Revision Date: 09/30/2023
SDS Number: 10812607-00003
Date of last issue: 04/04/2023
Date of first issue: 07/11/2022

SECTION 1. IDENTIFICATION
Product name: Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation
Other means of identification: No data available

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 Hazardous Products Regulations
Acute toxicity (Oral): Category 4
Respiratory sensitization: Sub-category 1B
Germ cell mutagenicity: Category 2
Carcinogenicity: Category 2
Reproductive toxicity: Category 1B
Specific target organ toxicity - repeated exposure: Category 1 (Respiratory Tract, Thyroid, Heart, Blood)
Specific target organ toxicity - repeated exposure: Category 2 (Liver, Testis)
Specific target organ toxicity - repeated exposure (Oral): Category 2 (Blood, Testis)

GHS label elements
Hazard pictograms:

Signal Word: Danger
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Hazard Statements:
- H302 Harmful if swallowed.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H360FD May damage fertility. May damage the unborn child.
- H372 Causes damage to organs (Respiratory Tract, Thyroid, Heart, Blood) through prolonged or repeated exposure.
- H373 May cause damage to organs (Liver, Testis) through prolonged or repeated exposure.
- H373 May cause damage to organs (Blood, Testis) through prolonged or repeated exposure if swallowed.

Precautionary Statements:

**Prevention:**
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe mist or vapors.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves, protective clothing, eye protection and face protection.
- P284 Wear respiratory protection.

**Response:**
- P301 + P312 + P330 IF SWALLOWED: Call a doctor if you feel unwell. Rinse mouth.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308 + P313 IF exposed or concerned: Get medical attention.
- P342 + P311 IF experiencing respiratory symptoms: Call a doctor.

**Storage:**
- P405 Store locked up.

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

Other hazards:
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Substance / Mixture | : Mixture |
SECTION 4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

If inhaled: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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

In case of eye contact: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.

If swallowed: If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed:
- Harmful if swallowed.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Suspected of causing genetic defects.
- Suspected of causing cancer.
- May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.
- Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g., emphysema, bronchitis, reactive airways dysfunction syndrome).

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
- Alcohol-resistant foam
- Carbon dioxide (CO2)
- Dry chemical

Unsuitable extinguishing media:
- None known.

Specific hazards during firefighting:
- Exposure to combustion products may be a hazard to health.

Hazardous combustion products:
- Carbon oxides
- Cobalt compounds
- Nitrogen oxides (NOx)
- Metal oxides

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

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions:
- Avoid release to the environment.
- Prevent further leakage or spillage if safe to do so.
- Prevent spreading over a wide area (e.g., by containment or oil barriers).
- Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up:
- Soak up with inert absorbent material.
- For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
- Clean up remaining materials from spill with suitable absorbent.
- Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
- Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures:
- See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation:
- If sufficient ventilation is unavailable, use with local exhaust ventilation.

Advice on safe handling:
- Do not get on skin or clothing.
- Do not breathe mist or vapors.
- Do not swallow.
- Avoid contact with eyes.
- Wash skin thoroughly after handling.
- Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment.
- Keep container tightly closed.
- Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory disease, should consult their physician regarding working with respiratory irritants or sensitizers.
- Do not eat, drink or smoke when using this product.
- Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage:
- Keep in properly labeled containers.
- Store locked up.
- Keep tightly closed.
- Store in accordance with the particular national regulations.

Materials to avoid:
- Do not store with the following product types:
  - Strong oxidizing agents
  - Self-reactive substances and mixtures
  - Organic peroxides
  - Explosives
  - Gases
## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Levamisole hydrochloride</td>
<td>16595-80-5</td>
<td>TWA</td>
<td>20 µg/m³ (OEB 3)</td>
<td>Internal</td>
</tr>
<tr>
<td>Oxfendazole</td>
<td>53716-50-0</td>
<td>TWA</td>
<td>40 µg/m³ (OEB 3)</td>
<td>Internal</td>
</tr>
<tr>
<td>Polyethylene glycol stearate</td>
<td>9004-99-3</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>CA AB OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA EV</td>
<td>10 mg/m³</td>
<td>CA QC OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Inhalable)</td>
<td>10 mg/m³</td>
<td>CA BC OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable)</td>
<td>3 mg/m³</td>
<td>CA BC OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Inhalable particulate matter)</td>
<td>10 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable particulate matter)</td>
<td>3 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td>Sodium selenate</td>
<td>13410-01-0</td>
<td>TWA</td>
<td>20 µg/m³ (OEB 3)</td>
<td>Internal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wipe limit</td>
<td>200 µg/100 cm²</td>
<td>Internal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>0.2 mg/m³ (selenium)</td>
<td>CA AB OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA EV</td>
<td>0.2 mg/m³ (selenium)</td>
<td>CA QC OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>0.1 mg/m³ (selenium)</td>
<td>CA BC OEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>0.2 mg/m³ (selenium)</td>
<td>ACGIH</td>
</tr>
<tr>
<td>abamectin (combination of avermectin B1a and avermectin B1b) (ISO)</td>
<td>71751-41-2</td>
<td>TWA</td>
<td>15 µg/m³ (OEB 3)</td>
<td>Internal</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wipe limit</td>
<td>150 µg/100 cm²</td>
<td>Internal</td>
</tr>
</tbody>
</table>

### Engineering measures

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., dripless quick connections).
All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of...
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the compound to uncontrolled areas (e.g., open-face containment devices). Minimize open handling.

Personal protective equipment
Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type
Hand protection : Combined particulates and organic vapor type

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. 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 : Aqueous solution
Color : purple
Odor : No data available
Odor Threshold : No data available
pH : 3.4 - 4.4 (20 °C)
Melting point/freezing point : No data available
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Initial boiling point and boiling range: No data available
Flash point: No data available
Evaporation rate: No data available
Flammability (solid, gas): Not applicable
Flammability (liquids): No data available
Upper explosion limit / Upper flammability limit: No data available
Lower explosion limit / Lower flammability limit: No data available
Vapor pressure: No data available
Relative vapor density: No data available
Relative density: 1.05 - 1.08
Density: No data available
Solubility(ies)
  Water solubility: No data available
Partition coefficient: n-octanol/water: Not applicable
Autoignition temperature: No data available
Decomposition temperature: No data available
Viscosity
  Viscosity, kinematic: 770 - 5000 mm²/s (20 °C)
Explosive properties: Not explosive
Oxidizing properties: The substance or mixture is not classified as oxidizing.
Molecular weight: No data available
Particle size: Not applicable

SECTION 10. STABILITY AND REACTIVITY
Reactivity: Not classified as a reactivity hazard.
Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formula

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity
Harmful if swallowed.

Product:
Acute oral toxicity : Acute toxicity estimate: 980.32 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg
Method: Calculation method

Components:

Levamisole hydrochloride:
Acute oral toxicity : LD50 (Rat): 180 mg/kg
LD50 (Mouse): 223 mg/kg
LD50 (Rabbit): 458 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Cobalt disodium ethylenediaminetetraacetate:
Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Remarks: Based on data from similar materials

Oxfendazole:
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<thead>
<tr>
<th>Substance</th>
<th>Acute oral toxicity</th>
<th>Acute inhalation toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute oral toxicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abamectin (combination of avermectin B1a and avermectin B1b) (ISO):</td>
<td>LD50 (Rat): 24 mg/kg</td>
<td>LC50 (Rat): 0.023 mg/l</td>
</tr>
<tr>
<td></td>
<td>LD50 (Mouse): 10 mg/kg</td>
<td>Exposure time: 4 h</td>
</tr>
<tr>
<td></td>
<td>LDLo (Monkey): 24 mg/kg</td>
<td>Test atmosphere: dust/mist</td>
</tr>
<tr>
<td></td>
<td>Symptoms: Dilatation of the pupil</td>
<td></td>
</tr>
<tr>
<td><strong>Acute dermal toxicity</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium selenate:</td>
<td>LD50 (Rat): 330 mg/kg</td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Benzyl alcohol:</td>
<td>LD50 (Rat): 1,620 mg/kg</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citric acid:</td>
<td>LD50 (Mouse): 5,400 mg/kg</td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Polyethylene glycol stearate:</td>
<td>LD50 (Rat): 5,000 mg/kg</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium selenate:</td>
<td>LD50 (Rat): &gt; 5 - 50 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Remarks: Based on data from similar materials</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benzyl alcohol:</td>
<td>LD50 (Rat): 1,600 mg/kg</td>
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<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute oral toxicity:</td>
<td>LD50 (Dog): 1,600 mg/kg</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LD50 (sheep): 250 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Acute inhalation toxicity:</td>
<td>&gt; 4.178 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exposure time: 4 h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Test atmosphere: dust/mist</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Method: OECD Test Guideline 403</td>
<td></td>
</tr>
<tr>
<td>Acute dermal toxicity:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute inhalation toxicity:</td>
<td>&gt; 0.052 - 0.51 mg/l</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exposure time: 4 h</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Test atmosphere: dust/mist</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Method: OECD Test Guideline 403</td>
<td></td>
</tr>
</tbody>
</table>

**Acute oral toxicity**
- LD50 (Rat): > 6,000 mg/kg
- LD50 (Dog): 1,600 mg/kg
- LD50 (sheep): 250 mg/kg

**Benzyl alcohol**
- Acute oral toxicity: LD50 (Rat): 1,620 mg/kg
- Acute inhalation toxicity: LC50 (Rat): > 4.178 mg/l
  - Exposure time: 4 h
  - Test atmosphere: dust/mist
  - Method: OECD Test Guideline 403

**Citric acid**
- Acute oral toxicity: LD50 (Mouse): 5,400 mg/kg
- Acute dermal toxicity: LD50 (Rat): > 2,000 mg/kg
  - Method: OECD Test Guideline 402
  - Assessment: The substance or mixture has no acute dermal toxicity

**Acute inhalation toxicity**
- LC50 (Rat): > 0.052 - 0.51 mg/l
  - Exposure time: 4 h
  - Test atmosphere: dust/mist
  - Method: OECD Test Guideline 403
LD50 (Rabbit): 2,000 mg/kg

**Skin corrosion/irritation**
Not classified based on available information.

**Components:**

**Levamisole hydrochloride:**
- Remarks: No data available

**Cobalt disodium ethylenediaminetetraacetate:**
- Species: Rabbit
- Method: OECD Test Guideline 404
- Result: No skin irritation
- Remarks: Based on data from similar materials

**Oxfendazole:**
- Species: Rabbit
- Result: No skin irritation

**Benzyl alcohol:**
- Species: Rabbit
- Method: OECD Test Guideline 404
- Result: No skin irritation

**Citric acid:**
- Species: Rabbit
- Method: OECD Test Guideline 404
- Result: No skin irritation

**Polyethylene glycol stearate:**
- Species: Rabbit
- Method: Draize Test
- Result: No skin irritation

**Sodium selenate:**
- Species: reconstructed human epidermis (RhE)
- Method: OECD Test Guideline 431
- Result: Skin irritation

**Abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**
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Species : Rabbit
Result : No skin irritation

**Serious eye damage/eye irritation**
Not classified based on available information.

**Components:**

**Levamisole hydrochloride:**
Species : Rabbit
Remarks : No data available

**Cobalt disodium ethylenediaminetetraacetate:**
Species : Rabbit
Result : No eye irritation
Remarks : Based on data from similar materials

**Oxfendazole:**
Species : Rabbit
Result : No eye irritation

**Benzyl alcohol:**
Species : Rabbit
Result : Irritation to eyes, reversing within 21 days
Method : OECD Test Guideline 405

**Citric acid:**
Species : Rabbit
Result : Irritation to eyes, reversing within 21 days
Method : OECD Test Guideline 405

**Polyethylene glycol stearate:**
Species : Rabbit
Result : No eye irritation
Method : Draize Test

**Sodium selenate:**
Species : Bovine cornea
Method : OECD Test Guideline 437
Result : No eye irritation

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**
Species : Rabbit
Result : Mild eye irritation
Respiratory or skin sensitization

Skin sensitization
Not classified based on available information.

Respiratory sensitization
May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Components:

Levamisole hydrochloride:
Remarks: No data available

Cobalt disodium ethylenediaminetetraacetate:
Routes of exposure: inhalation (dust/mist/fume)
Species: Humans
Result: positive
Remarks: Based on data from similar materials
Assessment: Probability or evidence of low to moderate respiratory sensitization rate in humans

Benzy alcohol:
Test Type: Maximization Test
Routes of exposure: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

Polyethylene glycol stearate:
Test Type: Open epicutaneous test
Routes of exposure: Skin contact
Species: Guinea pig
Result: negative

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):
Test Type: Maximization Test
Routes of exposure: Skin contact
Result: Not a skin sensitizer.

Germ cell mutagenicity
Suspected of causing genetic defects.

Components:

Levamisole hydrochloride:
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
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</table>

**Result:** negative

**Test Type:** Chromosome aberration test in vitro  
**Result:** negative

### Cobalt disodium ethylenediaminetetraacetate:

**Genotoxicity in vitro**
- **Test Type:** Bacterial reverse mutation assay (AMES)  
  - Method: OECD Test Guideline 471  
  - Result: negative  
  - Remarks: Based on data from similar materials
- **Test Type:** In vitro mammalian cell gene mutation test  
  - Method: OECD Test Guideline 476  
  - Result: positive  
  - Remarks: Based on data from similar materials
- **Test Type:** Chromosome aberration test in vitro  
  - Method: OECD Test Guideline 473  
  - Result: positive  
  - Remarks: Based on data from similar materials

**Genotoxicity in vivo**
- **Test Type:** Micronucleus test  
  - Species: Mouse  
  - Application Route: Intraperitoneal injection  
  - Result: positive  
  - Remarks: Based on data from similar materials
- **Test Type:** Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
  - Species: Mouse  
  - Application Route: Ingestion  
  - Result: positive  
  - Remarks: Based on data from similar materials
- **Test Type:** Rodent dominant lethal test (germ cell) (in vivo)  
  - Species: Mouse  
  - Application Route: Ingestion  
  - Result: positive  
  - Remarks: Based on data from similar materials

**Germ cell mutagenicity - Assessment**
- Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.  
  - Remarks: Based on data from similar materials

### oxfendazole:

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

**Genotoxicity in vivo**
- **Test Type:** Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Mouse
Application Route: Oral
Result: positive

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

Genotoxicity in vivo:
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

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

Test Type: in vitro micronucleus test
Result: positive

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

Genotoxicity in vivo:
Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Rat
Application Route: Ingestion
Result: negative

**Polyethylene glycol stearate:**
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

**Sodium selenate:**
Genotoxicity in vitro:
Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

**Abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**
Genotoxicity in vitro:
Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster lung cells
Result: negative

Test Type: Alkaline elution assay
Result: negative

Genotoxicity in vivo
: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

**Carcinogenicity**
Suspected of causing cancer.

**Components:**

**Levamisole hydrochloride:**
Species : Mouse
Application Route : Oral
Exposure time : 2 Years
NOAEL : 80 mg/kg body weight
Remarks : No significant adverse effects were reported

Species : Rat
Application Route : Oral
Exposure time : 2 Years
NOAEL : 40 mg/kg body weight
Remarks : No significant adverse effects were reported

**Cobalt disodium ethylenediaminetetraacetate:**
Species : Rat
Application Route : Inhalation (dust/mist/fume)
Exposure time : 105 weeks
Result : positive
Remarks : Based on data from similar materials

Species : Mouse
Application Route : Inhalation (dust/mist/fume)
Exposure time : 105 weeks
Result : positive
Remarks : Based on data from similar materials

**oxfendazole:**
Species : Rat
Application Route : Oral
Exposure time : 1 Years
**SAFETY DATA SHEET**
according to the Hazardous Products Regulations

**Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formula**

<table>
<thead>
<tr>
<th>Version</th>
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</table>

- **Symptoms**: No adverse effects.
- **Target Organs**: Liver
- **Species**: Rat
- **Application Route**: Oral
- **Exposure time**: 2 Years
- **Symptoms**: No adverse effects.
- **Target Organs**: Liver

**Benzyl alcohol:**
- **Species**: Mouse
- **Application Route**: Ingestion
- **Exposure time**: 103 weeks
- **Method**: OECD Test Guideline 451
- **Result**: negative

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**
- **Species**: Rat
- **Application Route**: Oral
- **Exposure time**: 105 weeks
- **Result**: negative

**Species**: Mouse
- **Application Route**: Oral
- **Exposure time**: 93 weeks
- **Result**: negative

**Reproductive toxicity**
May damage fertility. May damage the unborn child.

**Components:**

**Levamisole hydrochloride:**
- **Effects on fertility**: Test Type: Three-generation reproduction toxicity study
  - Species: Rat
  - Application Route: Oral
  - Result: No significant adverse effects were reported

**Effects on fetal development**: Test Type: Embryo-fetal development
- **Species**: Rat
- **Application Route**: Oral
- **Developmental Toxicity**: NOAEL: 20 mg/kg body weight
- **Result**: Fetotoxicity.

  Test Type: Embryo-fetal development
- **Species**: Rabbit
- **Application Route**: Oral
- **Developmental Toxicity**: LOAEL: 40 mg/kg body weight
- **Result**: Fetotoxicity.
Reproductive toxicity - Assessment: Some evidence of adverse effects on development, based on animal experiments.

Cobalt disodium ethylenediaminetetraacetate:
Effects on fertility:
- Test Type: Fertility/early embryonic development
  - Species: Rat
  - Application Route: Ingestion
  - Result: positive
  - Remarks: Based on data from similar materials

    Test Type: Fertility/early embryonic development
    - Species: Mouse
    - Application Route: Ingestion
    - Result: positive
    - Remarks: Based on data from similar materials

    Test Type: Fertility/early embryonic development
    - Species: Mouse
    - Application Route: inhalation (dust/mist/fume)
    - Result: positive
    - Remarks: Based on data from similar materials

    Test Type: Fertility/early embryonic development
    - Species: Rat
    - Application Route: inhalation (dust/mist/fume)
    - Result: positive
    - Remarks: Based on data from similar materials

Effects on fetal development:
- Test Type: Embryo-fetal development
  - Species: Rat
  - Application Route: Ingestion
  - Method: OECD Test Guideline 414
  - Result: negative
  - Remarks: Based on data from similar materials

Reproductive toxicity - Assessment: Some evidence of adverse effects on sexual function and fertility, based on animal experiments.
Remarks: Based on data from similar materials

Oxfendazole:
Effects on fertility:
- Test Type: Fertility/early embryonic development
  - Species: Rat, male
  - Application Route: Oral
  - Fertility: NOAEL: 17 mg/kg body weight
  - Target Organs: Testes
  - Result: Effects on fertility.

  Test Type: Two-generation reproduction toxicity study
  - Species: Rat
Application Route: Oral
Fertility: NOAEL: 0.9 mg/kg body weight
Target Organs: Liver
Result: No effects on fertility.

Test Type: Fertility
Species: Mouse
Application Route: Oral
Duration of Single Treatment: 1 Months
Fertility: NOAEL: 750 mg/kg body weight
Target Organs: Testes
Result: Effects on fertility.

Effects on fetal development:
Test Type: Embryo-fetal development
Species: Rat
Application Route: Oral
Developmental Toxicity: NOAEL: 10 mg/kg body weight
Result: positive, Embryo-fetal toxicity.

Test Type: Embryo-fetal development
Species: Rat
Developmental Toxicity: NOAEL: 10 mg/kg body weight
Result: positive, Embryo-fetal toxicity.

Test Type: Embryo-fetal development
Species: Mouse
Application Route: Oral
Developmental Toxicity: NOAEL: 108 mg/kg body weight
Result: positive, Embryo-fetal toxicity., Fetal abnormalities.

Test Type: Embryo-fetal development
Species: Rabbit
Application Route: Oral
Developmental Toxicity: NOAEL: 0.625 mg/kg body weight

Reproductive toxicity - Assessment:
Clear evidence of adverse effects on sexual function and fertility, based on animal experiments., Clear evidence of adverse effects on development, based on animal experiments.

Benzyl alcohol:
Effects on fertility:
Test Type: Fertility/early embryonic development
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Effects on fetal development:
Test Type: Embryo-fetal development
Species: Mouse
Application Route: Ingestion
SAFETY DATA SHEET  
according to the Hazardous Products Regulations  

Abamectin / Levamisole Hydrochloride /  
Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation  

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Result: negative  

Citric acid:  
Effects on fetal development: Test Type: One-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative  

Sodium selenate:  
Effects on fertility: Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials  

Effects on fetal development: Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Ingestion  
Result: negative  
Remarks: Based on data from similar materials  

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):  
Effects on fertility: Test Type: Fertility  
Species: Rat, male  
Application Route: Oral  
Result: Effects on fertility.  

Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Oral  
Early Embryonic Development: NOAEL: 0.12 mg/kg body weight  
Result: Fetotoxicity.  

Effects on fetal development: Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 0.05 mg/kg body weight  
Developmental Toxicity: NOAEL: 0.2 mg/kg body weight  
Result: Cleft palate  
Remarks: Adverse developmental effects were observed  

Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Oral  
Developmental Toxicity: LOAEL: 2 mg/kg body weight  
Result: Cleft palate, Teratogenic effects, Reduced embryonic survival  
Remarks: Adverse developmental effects were observed
Test Type: Development  
Species: Rat  
Application Route: Oral  
Developmental Toxicity: LOAEL: 1.6 mg/kg body weight  
Result: Teratogenic effects.

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.

STOT-single exposure  
Not classified based on available information.

Components:

Citric acid:  
Assessment: May cause respiratory irritation.

STOT-repeated exposure  
Causes damage to organs (Respiratory Tract, Thyroid, Heart, Blood) through prolonged or repeated exposure.  
May cause damage to organs (Liver, Testis) through prolonged or repeated exposure.  
May cause damage to organs (Blood, Testis) through prolonged or repeated exposure if swallowed.

Components:

Levamisole hydrochloride:  
Target Organs: Blood, Testis  
Assessment: May cause damage to organs through prolonged or repeated exposure.

Cobalt disodium ethylenediaminetetraacetate:  
Routes of exposure: inhalation (dust/mist/fume)  
Target Organs: Respiratory Tract  
Assessment: Shown to produce significant health effects in animals at concentrations of 0.02 mg/l/6h/d or less.  
Remarks: Based on data from similar materials  

Routes of exposure: Ingestion  
Target Organs: Thyroid, Heart, Blood  
Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.  
Remarks: Based on data from similar materials

oxfendazole:  
Routes of exposure: Oral
SAFETY DATA SHEET
according to the Hazardous Products Regulations

Abamectin / Levamisole Hydrochloride /
Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formula

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Target Organs: Liver, Testis
Assessment: May cause damage to organs through prolonged or repeated exposure.

Sodium selenate:
Routes of exposure: Ingestion
Assessment: Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):
Routes of exposure: Ingestion
Target Organs: Central nervous system
Assessment: Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Levamisole hydrochloride:
Species: Rat
NOAEL: 2.5 mg/kg
Application Route: Oral
Exposure time: 18 Months
Target Organs: Testis

Species: Dog
LOAEL: 20 mg/kg
Application Route: Oral
Exposure time: 18 Months
Target Organs: Blood

Species: Dog
LOAEL: 40 mg/kg
Application Route: Oral
Exposure time: 3 Months

Cobalt disodium ethylenediaminetetraacetate:
Species: Rat
LOAEL: > 10 mg/kg
Application Route: Ingestion
Exposure time: 90 Days
Remarks: Based on data from similar materials

Species: Rat
LOAEL: < 0.01 mg/l
Application Route: inhalation (dust/mist/fume)
Exposure time: 13 Weeks
**Method** : OECD Test Guideline 413
**Remarks** : Based on data from similar materials

**Species** : Mouse  
**LOAEL** : < 0.01 mg/l  
**Application Route** : inhalation (dust/mist/fume)  
**Exposure time** : 13 Weeks  
**Method** : OECD Test Guideline 413  
**Remarks** : Based on data from similar materials

### oxefendazole:

**Species** : Rat  
**NOAEL** : 11 mg/kg  
**Application Route** : Oral  
**Exposure time** : 2 Weeks  
**Target Organs** : Blood, Liver, Testis

**Species** : Rat  
**NOAEL** : 3.8 mg/kg  
**Application Route** : Oral  
**Exposure time** : 3 Months  
**Target Organs** : Liver, Testis

**Species** : Mouse  
**NOAEL** : 750 mg/kg  
**Application Route** : Oral  
**Exposure time** : 1 Months  
**Target Organs** : Liver

**Species** : Mouse  
**NOAEL** : 37.5 mg/kg  
**Application Route** : Oral  
**Exposure time** : 3 Months  
**Target Organs** : Liver

**Species** : Dog  
**NOAEL** : 6 mg/kg  
**Application Route** : Oral  
**Exposure time** : 1 Months  
**Remarks** : No significant adverse effects were reported

**Species** : Dog  
**NOAEL** : 11 mg/kg  
**Application Route** : Oral  
**Exposure time** : 2 Weeks  
**Target Organs** : Lymph nodes, thymus gland

**Species** : Dog  
**NOAEL** : 13.5 mg/kg  
**Application Route** : Oral
SAFETY DATA SHEET
according to the Hazardous Products Regulations

Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

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Exposure time : 12 Months
Target Organs : Liver

**Benzyl alcohol:**
Species : Rat
NOAEL : 1.072 mg/l
Application Route : inhalation (dust/mist/fume)
Exposure time : 28 Days
Method : OECD Test Guideline 412

**Citric acid:**
Species : Rat
NOAEL : 4,000 mg/kg
LOAEL : 8,000 mg/kg
Application Route : Ingestion
Exposure time : 10 Days

**Sodium selenate:**
Species : Rat
NOAEL : 0.4 mg/kg
Application Route : Ingestion
Exposure time : 13 Weeks

**abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**
Species : Rat
NOAEL : 1.5 mg/kg
Application Route : Oral
Exposure time : 24 Months
Target Organs : Central nervous system
Symptoms : Tremors, ataxia

Species : Mouse
NOAEL : 4.0 mg/kg
Application Route : Oral
Exposure time : 24 Months
Target Organs : Central nervous system
Symptoms : Tremors, ataxia

Species : Dog
NOAEL : 0.25 mg/kg
LOAEL : 0.5 mg/kg
Application Route : Oral
Exposure time : 53 Weeks
Target Organs : Central nervous system
Symptoms : Tremors, weight loss
Remarks : mortality observed

Species : Monkey
NOAEL : 1.0 mg/kg
Application Route : Oral
Exposure time : 14 Weeks
Target Organs : Central nervous system

Aspiration toxicity
Not classified based on available information.

Experience with human exposure

Components:

Levamisole hydrochloride:
Ingestion : Symptoms: Nausea, Vomiting, Headache, Dizziness, hypotension

Cobalt disodium ethylenediaminetetraacetate:
Inhalation : Target Organs: Respiratory system
Remarks: Based on data from similar materials
Ingestion : Target Organs: Blood
Remarks: Based on data from similar materials
Target Organs: Heart
Target Organs: Thyroid

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):
Ingestion : Symptoms: May cause, Tremors, Diarrhea, central nervous system effects, Salivation, tearing

Ecotoxicity

Components:

Levamisole hydrochloride:
Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): 37.3 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 64 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Cobalt disodium ethylenediaminetetraacetate:
Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
Remarks: Based on data from similar materials

Toxicity to algae/aquatic : ErC50 (Raphidocelis subcapitata (freshwater green alga)): >
Toxicity to fish (Chronic toxicity):
- EC10 (Danio rerio (zebra fish)): > 1 mg/l
- Exposure time: 34 d
- Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
- EC10 (Hyalella azteca (Amphipod)): > 0.01 - 0.1 mg/l
- Exposure time: 28 d
- Method: OECD Test Guideline 211
- Remarks: Based on data from similar materials

Oxfendazole:
Toxicity to fish:
- LC50 (Lepomis macrochirus (Bluegill sunfish)): > 2.7 mg/l
  - Exposure time: 96 h
- LC50 (Oncorhynchus mykiss (rainbow trout)): > 2.5 mg/l
  - Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:
- EC50 (Daphnia magna (Water flea)): 0.059 mg/l
  - Exposure time: 48 h
  - Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants:
- EC50 (Pseudokirchneriella subcapitata (green algae)): > 4 mg/l
  - Exposure time: 72 h
  - Method: OECD Test Guideline 201
- NOEC (Pseudokirchneriella subcapitata (green algae)): > 4 mg/l
  - Exposure time: 72 h
  - Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
- NOEC (Daphnia magna (Water flea)): 0.023 mg/l
  - Exposure time: 21 d
  - Method: OECD Test Guideline 211

Benzyl alcohol:
Toxicity to fish:
- LC50 (Pimephales promelas (fathead minnow)): 460 mg/l
  - Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:
- EC50 (Daphnia magna (Water flea)): 230 mg/l
  - Exposure time: 48 h
  - Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants:
- EC50 (Pseudokirchneriella subcapitata (green algae)): 770 mg/l
  - Exposure time: 72 h
Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 310 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
NOEC (Daphnia magna (Water flea)): 51 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

Citric acid:
Toxicity to fish:
LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): 1,535 mg/l
Exposure time: 24 h

Polyethylene glycol stearate:
Toxicity to fish:
LC50 (Leuciscus idus (Golden orfe)): > 10,000 mg/l
Exposure time: 96 h
Method: DIN 38412

Toxicity to microorganisms:
EC10 (Bacteria): > 10,000 mg/l
Exposure time: 16 h

Sodium selenate:
Toxicity to fish:
LC50 (Pimephales promelas (fathead minnow)): > 1 - 10 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants:
ErC50 (Chlamydomonas reinhardtii (green algae)): 245 µg/l
Exposure time: 96 h
NOEC (Chlamydomonas reinhardtii (green algae)): 197 µg/l
Exposure time: 96 h

Toxicity to fish (Chronic toxicity):
NOEC (Lepomis macrochirus (Bluegill sunfish)): > 0.01 - 0.1 mg/l
Exposure time: 258 d
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
NOEC: > 0.1 - 1 mg/l
Exposure time: 28 d
Remarks: Based on data from similar materials
Toxicity to microorganisms: EC10 (activated sludge): 590 mg/l Exposure time: 3 h Method: OECD Test Guideline 209

**Abamectin (combination of avermectin B1a and avermectin B1b) (ISO):**

**Toxicity to fish:**
- LC50 (Onchorhynchus mykiss (rainbow trout)): 3.2 µg/l Exposure time: 96 h
- LC50 (Lepomis macrochirus (Bluegill sunfish)): 9.6 µg/l Exposure time: 96 h
- LC50 (Ictalurus punctatus (channel catfish)): 24 µg/l Exposure time: 96 h
- LC50 (Cyprinus carpio (Carp)): 42 µg/l Exposure time: 96 h
- LC50 (Cyprinodon variegatus (sheepshead minnow)): 15 µg/l Exposure time: 96 h

**Toxicity to daphnia and other aquatic invertebrates:**
- EC50 (Americamysis): 0.022 µg/l Exposure time: 96 h
- EC50 (Daphnia magna (Water flea)): 0.34 µg/l Exposure time: 48 h

**Toxicity to algae/aquatic plants:**
- EC50 (Pseudokirchneriella subcapitata (green algae)): 100 mg/l Exposure time: 72 h

**Toxicity to fish (Chronic toxicity):**
- NOEC (Pimephales promelas (fathead minnow)): 0.52 µg/l Exposure time: 32 d

**Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):**
- NOEC (Daphnia magna (Water flea)): 0.03 µg/l Exposure time: 21 d
  - NOEC (Mysidopsis bahia (opossum shrimp)): 0.0035 µg/l Exposure time: 28 d

**Toxicity to microorganisms:** EC50: > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition

**Persistence and degradability**

**Components:**

**Oxfendazole:**
- Stability in water: Hydrolysis: < 5 % (4 d)
Benzyl alcohol:
Biodegradability: Result: Readily biodegradable.
Biodegradation: 92 - 96 %
Exposure time: 14 d

Citric acid:
Biodegradability: Result: Readily biodegradable.
Biodegradation: 97 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Polyethylene glycol stearate:
Biodegradability: Result: Readily biodegradable.
Biodegradation: > 70 %
Exposure time: 10 d
Method: OECD Test Guideline 302B

Abamectin (combination of avermectin B1a and avermectin B1b) (ISO):
Stability in water: Hydrolysis: 50 %(< 12 h)

Bioaccumulative potential

Components:

Cobalt disodium ethylenediaminetetraacetate:
Partition coefficient: n-octanol/water: log Pow: -3.86
Remarks: Calculation

Oxfendazole:
Partition coefficient: n-octanol/water: log Pow: 1.95

Benzyl alcohol:
Partition coefficient: n-octanol/water: log Pow: 1.05

Citric acid:
Partition coefficient: n-octanol/water: log Pow: -1.72

Abamectin (combination of avermectin B1a and avermectin B1b) (ISO):
Bioaccumulation: Bioconcentration factor (BCF): 52
Partition coefficient: n-octanol/water: log Pow: 4
SAFETY DATA SHEET
according to the Hazardous Products Regulations

Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formula

Mobility in soil

Components:

oxfendazole:
Distribution among environmental compartments: log Koc: 3.2

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):
Distribution among environmental compartments: log Koc: > 3.6

Other adverse effects
No data available

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG
UN number: UN 3082
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (abamectin (combination of avermectin B1a and avermectin B1b) (ISO), oxfendazole)
Class: 9
Packing group: III
Labels: 9
Environmentally hazardous: yes

IATA-DGR
UN/ID No.: UN 3082
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (abamectin (combination of avermectin B1a and avermectin B1b) (ISO), oxfendazole)
Class: 9
Packing group: III
Labels: Miscellaneous
Packing instruction (cargo aircraft): 964
Packing instruction (passenger aircraft): 964
SAFETY DATA SHEET
down to the Hazardous Products Regulations

Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

Environmentally hazardous : yes

IMDG-Code
UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (abamectin (combination of avermectin B1a and avermectin B1b) (ISO), oxfendazole)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Domestic regulation

TDG
UN number : UN 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (abamectin (combination of avermectin B1a and avermectin B1b) (ISO), oxfendazole)

Class : 9
Packing group : III
Labels : 9
ERG Code : 171
Marine pollutant : yes (abamectin (combination of avermectin B1a and avermectin B1b) (ISO), oxfendazole)

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

The ingredients of this product are reported in the following inventories:
AICS : not determined
DSL : not determined
IECSC : not determined

SECTION 16. OTHER INFORMATION

Full text of other abbreviations
SAFETY DATA SHEET
according to the Hazardous Products Regulations

Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formula

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date</th>
<th>SDS Number</th>
<th>Date of last issue:</th>
<th>Date of first issue:</th>
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<td>10812607-00003</td>
<td>04/04/2023</td>
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<td>Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)</td>
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<td>CA BC OEL</td>
<td>Canada. British Columbia OEL</td>
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<td>CA QC OEL</td>
<td>Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants</td>
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<td>ACGIH / TWA</td>
<td>8-hour, time-weighted average</td>
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<td>8-hour Occupational exposure limit</td>
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Revision Date: 09/30/2023
Date format: mm/dd/yyyy
SAFETY DATA SHEET
according to the Hazardous Products Regulations

Abamectin / Levamisole Hydrochloride / Oxfendazole / Cobalt Disodium EDTA / Sodium Selenate Formulation

Version 1.2 Revision Date: 09/30/2023 SDS Number: 10812607-00003 Date of last issue: 04/04/2023
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