

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | 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 : Alliance (A010249)
COOPERS TRIFECTA TRIPLE ACTIVE DRENCH FOR SHEEP AND CATTLE MINERALISED (67327)

Manufacturer or supplier's details

Company name of supplier : Merck & Co., Inc

Address : 37 McCarville Street
Charlottetown, PE C1E 2A7

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

Skin sensitization : Sub-category 1B

Germ cell mutagenicity : Category 2

Carcinogenicity : Category 2

Reproductive toxicity : Category 1B

Specific target organ toxicity : Category 1 (Respiratory Tract, Thyroid, Heart, Blood)
- repeated exposure

Specific target organ toxicity : Category 2 (Liver, Testis)
- repeated exposure

Specific target organ toxicity : Category 2 (Blood, Testis)
- repeated exposure (Oral)

GHS label elements

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| | | | |
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| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

| | | |
|--------------------------|---|--|
| Hazard pictograms | : | |
| Signal Word | : | Danger |
| Hazard Statements | : | H302 Harmful if swallowed. H317 May cause an allergic skin reaction. 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. P272 Contaminated work clothing should not be allowed out of the workplace. 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. P302 + P352 IF ON SKIN: Wash with plenty of water. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308 + P313 IF exposed or concerned: Get medical attention. P333 + P313 If skin irritation or rash occurs: Get medical attention. P342 + P311 If experiencing respiratory symptoms: Call a doctor. P362 + P364 Take off contaminated clothing and wash it before reuse. Storage: P405 Store locked up. |

SAFETY DATA SHEET

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Version 4.0 Revision Date: 06/17/2025 SDS Number: 10812607-00012 Date of last issue: 04/14/2025
Date of first issue: 07/11/2022

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

| Chemical name | Common Name/Synonym | CAS-No. | Concentration (% w/w) |
|--|---|------------|-----------------------|
| Levamisole hydrochloride | No data available | 16595-80-5 | $\geq 5 - < 10$ * |
| Cobalt disodium ethylenediaminetetraacetate | No data available | 15137-09-4 | $\geq 1 - < 5$ * |
| oxfendazole | No data available | 53716-50-0 | $\geq 1 - < 5$ * |
| Benzyl alcohol | Benzenemethanol | 100-51-6 | $\geq 1 - < 5$ * |
| Citric acid | 2-hydroxypropane-1,2,3-tricarboxylic acid | 77-92-9 | $\geq 1 - < 5$ * |
| Polyethylene glycol stearate | Ethoxylated stearic acid | 9004-99-3 | $\geq 1 - < 5$ * |
| Sodium selenate | No data available | 13410-01-0 | $\geq 0.1 - < 1$ * |
| abamectin (combination of avermectin B1a and avermectin B1b) (ISO) | No data available | 71751-41-2 | $\geq 0.1 - < 0.5$ * |

* Actual concentration or concentration range is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

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

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

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| | | | |
|----------------|------------------------------|-------------------------------|---|
| Version 4.0 | Revision Date: 06/17/2025 | SDS Number: 10812607-00012 | Date of last issue: 04/14/2025 Date of first issue: 07/11/2022 |
|----------------|------------------------------|-------------------------------|---|

- | | |
|---|---|
| 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 | : Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome). Harmful if swallowed. May cause an allergic skin reaction. 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. |
| 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 (CO ₂) Dry chemical |
| Unsuitable extinguishing media | : None known. |
| Specific hazards during fire fighting | : Exposure to combustion products may be a hazard to health. |
| Hazardous combustion products | : Carbon oxides Cobalt compounds Nitrogen oxides (NO _x) 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 |

SAFETY DATA SHEET

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

| | | | |
|----------------|------------------------------|-------------------------------|---|
| Version 4.0 | Revision Date: 06/17/2025 | SDS Number: 10812607-00012 | Date of last issue: 04/14/2025 Date of first issue: 07/11/2022 |
|----------------|------------------------------|-------------------------------|---|

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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

Version 4.0 Revision Date: 06/17/2025 SDS Number: 10812607-00012 Date of last issue: 04/14/2025
Date of first issue: 07/11/2022

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.

Materials to avoid : Store in accordance with the particular national regulations.
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

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|------------------------------|---------------------------|-------------------------------------|--|-----------|
| Levamisole hydrochloride | 16595-80-5 | TWA | 20 µg/m ³ (OEB 3) | Internal |
| | Further information: Skin | | | |
| | | Wipe limit | 200 µg/100 cm ² | Internal |
| oxfendazole | 53716-50-0 | TWA | 40 µg/m ³ (OEB 3) | Internal |
| | | Wipe limit | 400 µg/100 cm ² | Internal |
| Polyethylene glycol stearate | 9004-99-3 | TWA | 10 mg/m ³ | CA AB OEL |
| | | TWA (Inhalable) | 10 mg/m ³ | CA BC OEL |
| | | TWA (Respirable) | 3 mg/m ³ | CA BC OEL |
| | | TWAEV (inhalable dust) | 10 mg/m ³ | CA QC OEL |
| | | TWAEV (respirable aerosol fraction) | 3 mg/m ³ | CA QC OEL |
| | | TWA (Inhalable particulate matter) | 10 mg/m ³ | ACGIH |
| | | TWA (Respirable particulate matter) | 3 mg/m ³ | ACGIH |

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

Version 4.0 Revision Date: 06/17/2025 SDS Number: 10812607-00012 Date of last issue: 04/14/2025
Date of first issue: 07/11/2022

| | | | | |
|--|------------|------------|-------------------------------------|-----------|
| Sodium selenate | 13410-01-0 | TWA | 20 µg/m3 (OEB 3) | Internal |
| | | Wipe limit | 200 µg/100 cm ² | Internal |
| | | TWA | 0.2 mg/m ³ (selenium) | CA AB OEL |
| | | TWAEV | 0.2 mg/m ³ (selenium) | CA QC OEL |
| | | TWA | 0.1 mg/m ³ (selenium) | CA BC OEL |
| | | TWA | 0.2 mg/m ³ (selenium) | ACGIH |
| abamectin (combination of avermectin B1a and avermec- tin B1b) (ISO) | 71751-41-2 | TWA | 15 µg/m3 (OEB 3) | Internal |
| | | Wipe limit | 150 µg/100 cm ² | Internal |

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

Personal protective equipment

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

Filter type : Combined particulates and organic vapor type

Hand protection

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

SAFETY DATA SHEET

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

| | | | |
|----------------|------------------------------|-------------------------------|---|
| Version 4.0 | Revision Date: 06/17/2025 | SDS Number: 10812607-00012 | Date of last issue: 04/14/2025 Date of first issue: 07/11/2022 |
|----------------|------------------------------|-------------------------------|---|

eye flushing systems and safety showers close to the working place.
When using do not eat, drink or smoke.
Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before re-use.
The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--------------------------------|
| Appearance | : Aqueous solution, suspension |
| Color | : pink, to, purple |
| Odor | : No data available |
| Odor Threshold | : No data available |
| pH | : 3.4 - 4.4 (20 °C) |
| Melting point/freezing point | : No data available |
| Initial boiling point and boiling range | : No data available |
| Flash point | : No data available |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Flammability (liquids) | : No data available |
| Upper explosion limit / Upper 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 |

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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| | | | |
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| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

| | |
|--|--|
| 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 mm ² /s (20 °C) |
| Explosive properties | : Not explosive |
| Oxidizing properties | : The substance or mixture is not classified as oxidizing. |
| Molecular weight | : No data available |
| Particle characteristics | |
| Particle size | : Not applicable |

SECTION 10. STABILITY AND REACTIVITY

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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Harmful if swallowed.

Product:

| | |
|---------------------------|---|
| Acute oral toxicity | : Acute toxicity estimate: 976.18 mg/kg Method: Calculation method |
| Acute inhalation toxicity | : Acute toxicity estimate: > 5 mg/l |

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|----------------|------------------------------|-------------------------------|---|
| Version 4.0 | Revision Date: 06/17/2025 | SDS Number: 10812607-00012 | Date of last issue: 04/14/2025 Date of first issue: 07/11/2022 |
|----------------|------------------------------|-------------------------------|---|

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:

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): 1,200 mg/kg
Acute inhalation toxicity : LC50 (Rat): > 5.4 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

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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

|| toxicity

Polyethylene glycol stearate:

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

Sodium selenate:

|| Acute oral toxicity : LD50 (Rat): > 5 - 50 mg/kg
Remarks: Based on data from similar materials

|| Acute inhalation toxicity : LC50 (Rat): > 0.052 - 0.51 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

|| Acute oral toxicity : LD50 (Rat): 24 mg/kg
LD50 (Mouse): 10 mg/kg
LDLo (Monkey): 24 mg/kg
Symptoms: Dilatation of the pupil

|| Acute inhalation toxicity : LC50 (Rat): 0.023 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

|| Acute dermal toxicity : LD50 (Rat): 330 mg/kg
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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

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 |

| | |
|---------|---------------------------------------|
| Species | : reconstructed human epidermis (RhE) |
| Method | : OECD Test Guideline 439 |

| | |
|--------|-------------------|
| Result | : Skin irritation |
|--------|-------------------|

abamectin (combination of avermectin B1a and avermectin B1b) (ISO):

| | |
|---------|----------------------|
| Species | : Rabbit |
| Result | : No skin irritation |

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Levamisole hydrochloride:

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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

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

May cause an allergic skin reaction.

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 |
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SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|----------------|------------------------------|-------------------------------|---|
| Version 4.0 | Revision Date: 06/17/2025 | SDS Number: 10812607-00012 | Date of last issue: 04/14/2025 Date of first issue: 07/11/2022 |
|----------------|------------------------------|-------------------------------|---|

II sensitization rate in humans

Benzyl alcohol:

| | |
|--------------------|--|
| Test Type | : Human repeat insult patch test (HRIPT) |
| Routes of exposure | : Skin contact |
| Species | : Humans |
| Result | : positive |

| | |
|------------|--|
| Assessment | : Probability or evidence of low to moderate skin sensitization rate in humans |
|------------|--|

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) 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 |
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SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|----------------|------------------------------|-------------------------------|---|
| Version 4.0 | Revision Date: 06/17/2025 | SDS Number: 10812607-00012 | Date of last issue: 04/14/2025 Date of first issue: 07/11/2022 |
|----------------|------------------------------|-------------------------------|---|

| | |
|-------------------------------------|---|
| | 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 | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative |

Citric acid:

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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|----------------|------------------------------|-------------------------------|---|
| Version 4.0 | Revision Date: 06/17/2025 | SDS Number: 10812607-00012 | Date of last issue: 04/14/2025 Date of first issue: 07/11/2022 |
|----------------|------------------------------|-------------------------------|---|

| | | |
|----------------------|---|--|
| Genotoxicity in vivo | : | Test Type: in vitro micronucleus test Result: positive |
| | : | Test Type: Bacterial reverse mutation assay (AMES) Result: negative |
| | : | 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: Bacterial reverse mutation assay (AMES) Result: negative |
| | : | Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Result: negative |
| | : | Test Type: Alkaline elution assay Result: negative |
| | : | 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 |

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

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

| | |
|------------------------------|--|
| Carcinogenicity - Assessment | : Limited evidence of carcinogenicity in animal studies Remarks: Based on data from similar materials |
|------------------------------|--|

oxfendazole:

| | |
|-------------------|-----------------------|
| Species | : Rat |
| Application Route | : Oral |
| Exposure time | : 1 Years |
| 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 |
|---------|-------|

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|----------------|------------------------------|-------------------------------|---|
| Version 4.0 | Revision Date: 06/17/2025 | SDS Number: 10812607-00012 | Date of last issue: 04/14/2025 Date of first issue: 07/11/2022 |
|----------------|------------------------------|-------------------------------|---|

| | | |
|------------------------------------|---|---|
| | | 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, Fetal effects. |

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|----------------|------------------------------|-------------------------------|---|
| Version 4.0 | Revision Date: 06/17/2025 | SDS Number: 10812607-00012 | Date of last issue: 04/14/2025 Date of first issue: 07/11/2022 |
|----------------|------------------------------|-------------------------------|---|

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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|----------------|------------------------------|-------------------------------|---|
| Version 4.0 | Revision Date: 06/17/2025 | SDS Number: 10812607-00012 | Date of last issue: 04/14/2025 Date of first issue: 07/11/2022 |
|----------------|------------------------------|-------------------------------|---|

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.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

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 |
| 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. |

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

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 |

oxfendazole:

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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

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

SECTION 12. ECOLOGICAL INFORMATION

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

Cobalt disodium ethylenediaminetetraacetate:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l
aquatic invertebrates
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)): >
plants
100 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox- : EC10 (Danio rerio (zebra fish)): > 1 mg/l
icity)
Exposure time: 34 d
Remarks: Based on data from similar materials

Toxicity to daphnia and other : EC10 (Hyalomma azteca (Amphipod)): > 0.01 - 0.1 mg/l
aquatic invertebrates (Chron-
ic toxicity)
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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: |
| 4.0 | 06/17/2025 | 10812607-00012 | 04/14/2025 |
| | | | Date of first issue: 07/11/2022 |

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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: |
| 4.0 | 06/17/2025 | 10812607-00012 | 04/14/2025 |
| | | | Date of first issue: 07/11/2022 |

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 (Oncorhynchus 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 |
|------------------|--|

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|----------------|------------------------------|-------------------------------|---|
| Version 4.0 | Revision Date: 06/17/2025 | SDS Number: 10812607-00012 | Date of last issue: 04/14/2025 Date of first issue: 07/11/2022 |
|----------------|------------------------------|-------------------------------|---|

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

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.

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

Contaminated packaging : Dispose of in accordance with local regulations.
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
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

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
| 4.0 | 06/17/2025 | 10812607-00012 | Date of first issue: 07/11/2022 |

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

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)

CA BC OEL : Canada. British Columbia OEL

CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for air-borne contaminants

ACGIH / TWA : 8-hour, time-weighted average

CA AB OEL / TWA : 8-hour Occupational exposure limit

CA BC OEL / TWA : 8-hour time weighted average

CA QC OEL / TWA EV : Time-weighted average exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized Sys-

SAFETY DATA SHEET

according to the Hazardous Products Regulations



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

| | | | |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 04/14/2025 |
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tem; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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

Revision Date : 06/17/2025
Date format : mm/dd/yyyy

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

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

CA / Z8