

| Version | Revision Date: | SDS Number:    | Date of last issue: 2023/12/04  |
|---------|----------------|----------------|---------------------------------|
| 1.5     | 2024/04/06     | 10813897-00006 | Date of first issue: 2022/07/12 |

### **1. PRODUCT AND COMPANY IDENTIFICATION**

| Product name  | :   | Abamectin / Levamisole Hydrochloride / Cobalt EDTA / Sodi-<br>um Selenate Formulation |  |  |  |
|---|-----|---|--|--|--|
| Other means of identification                           | :   | Converge (A010119)  |  |  |  |
| Manufacturer or supplier's d                            | eta | ils   |  |  |  |
| Company   | :   | MSD   |  |  |  |
| Address   | :   | No. 485 Jing Tai Road<br>Pu Tuo District - Shanghai - China 200331                    |  |  |  |
| Telephone   | :   | +1-908-740-4000   |  |  |  |
| Emergency telephone number                              | :   | 86-571-87268110   |  |  |  |
| E-mail address  | :   | EHSDATASTEWARD@msd.com  |  |  |  |
| Recommended use of the chemical and restrictions on use |     |   |  |  |  |
| Recommended use<br>Restrictions on use                  | :   | Veterinary product<br>Not applicable  |  |  |  |

### 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

| Appearance<br>Colour<br>Odour | <ul><li>suspension</li><li>No data available</li><li>No data available</li></ul> |  |
|-------------------------------|--|--|
|-------------------------------|--|--|

Toxic if swallowed. May be harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

| GHS Classification          |   |            |
|-----------------------------|---|------------|
| Acute toxicity (Oral)       | : | Category 3 |
| Acute toxicity (Inhalation) | : | Category 5 |
| Respiratory sensitisation   | : | Category 1 |
| Germ cell mutagenicity      | : | Category 2 |
|                             |   |            |



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|----------------|---|--|--|
| Carci          | nogenicity                                    | Category 2   |  |
| Repro          | oductive toxicity                             | Category 2   |  |
|                | ific target organ toxicity -<br>ated exposure | Category 2   |  |
| Short<br>hazar | -term (acute) aquatic<br>rd                   | Category 1   |  |
| Long<br>hazar  | -term (chronic) aquatic<br>rd                 | Category 1   |  |
| GHS            | label elements                                |  |  |
| Haza           | rd pictograms                                 | <b>J</b>   |  |
| Signa          | al word                                       | Danger   | $\mathbf{v}$   |
| Haza           | rd statements                                 | H334 May ca<br>difficulties if i<br>H341 Suspec<br>H351 Suspec<br>H361fd Susp<br>ing the unbou<br>H373 May ca<br>peated expos            | e harmful if inhaled.<br>ause allergy or asthma symptoms or breathing<br>nhaled.<br>cted of causing genetic defects.<br>cted of causing cancer.<br>rected of damaging fertility. Suspected of damag<br>rn child.<br>ause damage to organs through prolonged or re- |
| Preca          | autionary statements                          | P202 Do not<br>and understo<br>P260 Do not<br>P264 Wash s<br>P270 Do not<br>P273 Avoid r<br>P280 Wear p<br>tion/ face pro<br>P284 Wear r | breathe mist or vapours.<br>skin thoroughly after handling.<br>eat, drink or smoke when using this product.<br>elease to the environment.<br>protective gloves/ protective clothing/ eye protec-   |
|                |   | POISON CE  | + P330 IF SWALLOWED: Immediately call a<br>NTER/ doctor. Rinse mouth.<br>IF INHALED: Remove person to fresh air and  |



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keep comfortable for breathing. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. P391 Collect spillage.

#### Storage:

P405 Store locked up.

#### Disposal:

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

#### Physical and chemical hazards

Not classified based on available information.

### Health hazards

Toxic if swallowed. May be harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

#### **Environmental hazards**

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

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

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

| Chemical name  | CAS-No.    | Concentration (% w/w) |
|--|------------|-----------------------|
| levamisole hydrochloride   | 16595-80-5 | >= 3 -< 10            |
| Cobalt disodium ethylenediaminetetraacetate                        | 15137-09-4 | >= 3 -< 10            |
| Benzyl alcohol   | 100-51-6   | >= 1 -< 10            |
| Citric acid  | 77-92-9    | >= 1 -< 10            |
| Sodium selenate  | 13410-01-0 | >= 0.1 -< 0.25        |
| abamectin (combination of avermectin B1a and avermectin B1b) (ISO) | 71751-41-2 | >= 0.1 -< 0.25        |

### 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.



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|-------------|------------------------------|------------------------------|---|--|--|--|--|--|
|             |                              |                              |   |  |  |  |  |  |
| If inhaled  |                              | :                            | <ul> <li>If inhaled, remove to fresh air.</li> <li>If not breathing, give artificial respiration.</li> <li>If breathing is difficult, give oxygen.</li> <li>Get medical attention.</li> </ul>         |  |  |  |  |  |
|             | In case                      | e of skin contact            | :   | <ul> <li>In case of contact, immediately flush skin with soap and p<br/>of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul> |  |  |  |  |
|             | In case                      | of eye contact               | :   |  | ater as a precaution.<br>tion if irritation develops and persists.                 |  |  |  |
|             | If swallowed                 |                              | <ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Get medical attention.</li> <li>Rinse mouth thoroughly with water.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul> |  |  |  |  |  |
|             | and eff<br>delayed           |                              | :   |  |  |  |  |  |
|             | Protect                      | ion of first-aiders          | <ul> <li>First Aid responders should pay attention to self-pro<br/>and use the recommended personal protective equivalent<br/>when the potential for exposure exists (see section</li> </ul>          |  | ers should pay attention to self-protection, nmended personal protective equipment |  |  |  |
|             | Notes to physician           |                              | :   |  | cally and supportively.  |  |  |  |
| 5. F        | IREFIGI                      | HTING MEASURES               |   |  |  |  |  |  |
|             | Suitable extinguishing media |                              | :   | Water spray<br>Alcohol-resistant<br>Carbon dioxide (C  |  |  |  |  |

|   |   | Dry chemical   |
|---|---|--|
| Unsuitable extinguishing media            | : | None known.  |
| Specific hazards during fire-<br>fighting | : | Exposure to combustion products may be a hazard to health. |
| Hazardous combustion prod-                | : | Carbon oxides  |
| ucts                                      |   | Oxides of phosphorus                                       |
|   |   | Cobalt compounds   |
|   |   | Nitrogen oxides (NOx)                                      |

Metal oxides



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|---------------|---|-----------------------------------|-----|---|--|
|               | Specific extinguishing meth-<br>ods   |                                   | :   | cumstances and t<br>Use water spray t   | measures that are appropriate to local cir-<br>he surrounding environment.<br>o cool unopened containers.<br>ged containers from fire area if it is safe to do   |
|               |   | l protective equipment<br>ighters | :   |   | e, wear self-contained breathing apparatus.<br>ective equipment.   |
| 6. AC         |   | NTAL RELEASE MEAS                 | SUF | RES   |  |
| ti            | Personal precautions, protec-<br>tive equipment and emer-<br>gency procedures |                                   | :   |   | ective equipment.<br>ing advice (see section 7) and personal pro-<br>recommendations (see section 8).  |
| E             | Environmental precautions   |                                   | :   | Prevent spreading<br>barriers).<br>Retain and dispos  | akage or spillage if safe to do so.<br>g over a wide area (e.g. by containment or oil<br>se of contaminated wash water.<br>should be advised if significant spillages  |
|               | Methods and materials for containment and cleaning up                         |                                   | :   | For large spills, pr<br>ment to keep mate<br>be pumped, store<br>Clean up remaining<br>bent.<br>Local or national r<br>posal of this mate<br>employed in the c<br>mine which regular<br>Sections 13 and 1 | absorbent material.<br>ovide dyking or other appropriate contain-<br>erial from spreading. If dyked material can<br>recovered material in appropriate container.<br>og materials from spill with suitable absor-<br>regulations may apply to releases and dis-<br>rial, as well as those materials and items<br>leanup of releases. You will need to deter-<br>ations are applicable.<br>5 of this SDS provide information regarding<br>tional requirements. |

### 7. HANDLING AND STORAGE

| Handling   |   |
|--|---|
| Technical measures                                 | : See Engineering measures under EXPOSURE<br>CONTROLS/PERSONAL PROTECTION section.  |
| Local/Total ventilation<br>Advice on safe handling | <ul> <li>Use only with adequate ventilation.</li> <li>Do not breathe mist or vapours.</li> <li>Do not swallow.</li> <li>Avoid contact with eyes.</li> <li>Avoid prolonged or repeated contact with skin.</li> <li>Wash skin thoroughly after handling.</li> </ul> |



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|               |        |                                      |   | practice, based o<br>sessment<br>Keep container tig<br>Already sensitise<br>to asthma, allergi<br>should consult the<br>tory irritants or se<br>Do not eat, drink | d individuals, and those susceptible<br>es, chronic or recurrent respiratory disease,<br>eir physician regarding working with respira- |
| A             | Avoida | nce of contact                       | : | Oxidizing agents  |  |
| S             | Storag | e                                    |   |   |  |
|               |        | ons for safe storage<br>als to avoid | : | Store locked up.<br>Keep tightly close<br>Store in accordar   | abelled containers.<br>ed.<br>ice with the particular national regulations.<br>the following product types:                            |
|               |        |                                      | - | Strong oxidizing a  |  |
| F             | Packag | jing material                        | : | Unsuitable mater  | al: None known.  |

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| Components   | CAS-No.  | Value type<br>(Form of<br>exposure) | Control parame-<br>ters / Permissible<br>concentration | Basis    |
|--|--|-------------------------------------|--|----------|
| levamisole hydrochloride   | 16595-80-5   | TWA                                 | 20 µg/m3 (OEB 3)                                       | Internal |
|  | Further inform   | ation: Skin                         |  |          |
|  |  | Wipe limit                          | 200 µg/100 cm <sup>2</sup>                             | Internal |
| Cobalt disodium ethylenedia-<br>minetetraacetate                           | 15137-09-4   | PC-TWA                              | 0.05 mg/m3<br>(Cobalt)                                 | CN OEL   |
|  | Further information: G2B - Possibly carcinogenic to huma<br>sitizing |                                     |  |          |
|  |  | PC-STEL                             | 0.1 mg/m3<br>(Cobalt)                                  | CN OEL   |
|  | Further inform sitizing  | humans, Sen-                        |  |          |
| Sodium selenate  | 13410-01-0   | PC-TWA                              | 0.1 mg/m3<br>(selenium)                                | CN OEL   |
|  |  | TWA                                 | 20 µg/m3 (OEB 3)                                       | Internal |
|  |  | Wipe limit                          | 200 µg/100 cm <sup>2</sup>                             | Internal |
|  |  | TŴA                                 | 0.2 mg/m3<br>(selenium)                                | ACGIH    |
| abamectin (combination of<br>avermectin B1a and avermec-<br>tin B1b) (ISO) | 71751-41-2   | TWA                                 | 15 μg/m3 (OEB 3)                                       | Internal |



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|---------------------|--|--|---|--|---|--|
|                     |  |  | N   | /ipe limit   | 150 μg/100 cm²  | Internal   |
| Engi                | neering measures                                     | techr<br>less of<br>All er<br>desig<br>prote<br>Conta<br>are re<br>the c<br>tainm                                    | ologies to c<br>quick conne<br>ngineering c<br>n and opera<br>ct products,<br>ainment tecl<br>equired to c  | control airbo<br>ctions).<br>ontrols shou<br>ated in acco<br>workers, a<br>hnologies s<br>ontrol at sou<br>uncontrolle<br>). | controls and manufairne concentrations (<br>uld be implemented burdance with GMP print<br>nd the environment.<br>uitable for controlling<br>urce and to prevent n<br>ed areas (e.g., open-f | e.g., drip-<br>by facility<br>inciples to<br>compounds<br>nigration of |
| Pers                | onal protective equip                                | nent   |   |  |   |  |
| Fi<br>Eye/f<br>Skin | liter type<br>face protection<br>and body protection | sure<br>omm<br>Coml<br>Wear<br>If the<br>mists<br>Wear<br>poter<br>aeros<br>Work<br>Addit<br>task I<br>posa<br>Use a | <ul> <li>If adequate local exhaust ventilation is not available or esure assessment demonstrates exposures outside the rommended guidelines, use respiratory protection.</li> <li>Combined particulates and organic vapour type</li> <li>Wear safety glasses with side shields or goggles.<br/>If the work environment or activity involves dusty condition mists or aerosols, wear the appropriate goggles.<br/>Wear a faceshield or other full face protection if there is potential for direct contact to the face with dusts, mists, aerosols.</li> <li>Work uniform or laboratory coat.<br/>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, posable suits) to avoid exposed skin surfaces.<br/>Use appropriate degowning techniques to remove poter contaminated clothing.</li> </ul> |  | de the rec-<br>conditions,<br>here is a<br>mists, or<br>upon the<br>untlets, dis-   |  |
| М                   | aterial  | : Chen   | nical-resista   | nt gloves  |   |  |
|                     | emarks<br>ene measures                               | : If exp<br>eye f<br>ing p<br>Wher<br>Wash<br>The e<br>engin<br>appro<br>indus                                       | lushing syst<br>lace.<br>n using do n<br>n contamina<br>effective ope<br>leering cont<br>opriate dego   | emical is lik<br>ems and sa<br>ot eat, drinl<br>ted clothing<br>eration of a<br>rols, proper<br>owning and<br>e monitoring   | before re-use.<br>facility should include<br>personal protective<br>decontamination pro<br>g, medical surveilland   | o the work-<br>e review of<br>equipment,<br>cedures,                   |

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

: suspension



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|         |                           |                |                                 |

| Colour  | : | No data available |
|---|---|-------------------|
| Odour   | : | No data available |
| Odour Threshold                                     | : | No data available |
| рН  | : | No data available |
| Melting point/freezing point                        | : | No data available |
| Initial boiling point and boiling range             | : | No data available |
| Flash point   | : | No data available |
| Evaporation rate                                    | : | No data available |
| Flammability (solid, gas)                           | : | Not applicable    |
| Flammability (liquids)                              | : | No data available |
| Upper explosion limit / Upper<br>flammability limit | : | No data available |
| Lower explosion limit / Lower<br>flammability limit | : | No data available |
| Vapour pressure                                     | : | No data available |
| Relative vapour density                             | : | No data available |
| Relative density                                    | : | No data available |
| Density   | : | No data available |
| Solubility(ies)<br>Water solubility                 | : | No data available |
| Partition coefficient: n-<br>octanol/water          | : | Not applicable    |
| Auto-ignition temperature                           | : | No data available |
| Decomposition temperature                           | : | No data available |
| Viscosity<br>Viscosity, kinematic                   | : | No data available |
| Explosive properties                                | : | Not explosive     |



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| Oxidizing properties                      | : The substance or mixture is not classified as oxidizing. |  |
|---|--|--|
| Molecular weight                          | : No data available  |  |
| Particle characteristics<br>Particle size | : Not applicable   |  |

### **10. STABILITY AND REACTIVITY**

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

### **11. TOXICOLOGICAL INFORMATION**

| • • |   |   | -  |
|-----|---|---|--|
|     | Exposure routes                                   | : | Inhalation<br>Skin contact<br>Ingestion<br>Eye contact   |
|     | Acute toxicity                                    |   |  |
|     | Toxic if swallowed.<br>May be harmful if inhaled. |   |  |
|     | Product:  |   |  |
|     | Acute oral toxicity                               | : | Acute toxicity estimate: 185.72 mg/kg<br>Method: Calculation method  |
|     | Acute inhalation toxicity                         | : | Acute toxicity estimate: 7.16 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Calculation method |
|     | Acute dermal toxicity                             | : | Acute toxicity estimate: > 5,000 mg/kg<br>Method: Calculation method   |
|     | Components:                                       |   |  |
|     |   |   |  |
|     | levamisole hydrochloride:                         |   |  |
|     | Acute oral toxicity                               | : | LD50 (Rat): 180 mg/kg  |
|     |   |   | LD50 (Mouse): 223 mg/kg  |
|     |   |   |  |

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## Abamectin / Levamisole Hydrochloride / Cobalt EDTA / Sodium Selenate Formulation

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| Acute inhalation toxicity       ::       Remarks: No data available         Acute dermal toxicity       ::       Remarks: No data available         Acute oral toxicity       ::       Remarks: No data available         Cobalt disodium ethylemetimmetetraacetate:       Acute oral toxicity       ::       LD50 (Rat): > 2,000 mg/kg<br>Remarks: Based on data from similar materials         Benzyl alcohol:       :       LD50 (Rat): 1,620 mg/kg         Acute oral toxicity       ::       LD50 (Rat): 1,620 mg/kg         Acute inhalation toxicity       ::       LD50 (Rat): 1,620 mg/kg         Acute oral toxicity       ::       LD50 (Rat): 1,620 mg/kg         Acute oral toxicity       ::       LD50 (Rat): 1,620 mg/kg         Acute oral toxicity       ::       LD50 (Rat): 2,000 mg/kg         Acute oral toxicity       ::       LD50 (Mouse): 5,400 mg/kg         Acute oral toxicity       ::       LD50 (Rat): > 2,000 mg/kg         Acute oral toxicity       ::       LD50 (Rat): > 2,000 mg/kg         Method: OECD Test Guideline 402       Assessment: The substance or mixture has no acute dem toxicity         Sodium selenate:       :       Acute toxicity estimate: 0.5 mg/kg         Method: DECD Test Guideline 403       Test atmosphere: 4 h       Test atmosphere: 4 h         Test atmosphere: 4 b       Test a                                  | ersion<br>5 | Revision Date: 2024/04/06 |        | 05 Number:<br>813897-00006        | Date of last issue: 2023/12/04<br>Date of first issue: 2022/07/12 |
|--|-------------|---------------------------|--------|-----------------------------------|---|
| 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         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg         Acute oral toxicity       :       LD50 (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         Acute oral toxicity       :       LD50 (Mouse): 5,400 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 0,052 - 0.51 mg/l         Exposure time: 4 h       Testat atmosphere: dust/mist         Method  |             |                           |        |                                   |   |
| Acute dermal toxicity       :       Remarks: No data available         Cobalt disodium ethylenediaminetetraacetate:       Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg       Remarks: Based on data from similar materials         Benzyl alcohol:       .       Acute oral toxicity       :       LD50 (Rat): 1,620 mg/kg         Acute oral toxicity       :       LD50 (Rat): 1,620 mg/kg         Acute oral 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 oral toxicity       :       LD50 (Mouse): 5,400 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg         Method: OECD Test Guideline 402       Assessment: The substance or mixture has no acute derm toxicity         Sodium selenate:       .       .         Acute oral toxicity       :       Acute toxicity estimate: 0.5 mg/kg         Method: Expert judgement       .       .         Remarks: Based on national or regional regulation.  |             |                           |        | LD50 (Rabbit): 4                  | l58 mg/kg   |
| Cobalt disodium ethylenediaminetetraacetate:         Acute oral toxicity       :       LD50 (Rat): > 2.000 mg/kg<br>Remarks: Based on data from similar materials         Benzyl alcohol:       .       .         Acute oral toxicity       :       LD50 (Rat): 1,620 mg/kg         Acute oral toxicity       :       LD50 (Rat): 1,620 mg/kg         Acute inhalation toxicity       :       LC50 (Rat): > 4.178 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403         Citric acid:       .         Acute oral toxicity       :       LD50 (Mouse): 5,400 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg         Acute oral toxicity       :       LD50 (Mouse): 5,400 mg/kg         Acute oral toxicity       :       LD50 (Mouse): 5,400 mg/kg         Acute oral toxicity       :       LD50 (Mouse): 5,400 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg         Method: OECD Test Guideline 403       .       .         Sodium selenate:       .       .       .         Acute oral toxicity       :       .       .         Method: DECD - 0.51 mg/l       .       .       .         Acute oral toxicity       :       LC50 (Rat): > 0.052 - 0.51 mg/l       .   | Acute i     | inhalation toxicity       | :      | Remarks: No da                    | ta available  |
| Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg<br>Remarks: Based on data from similar materials         Benzyl alcohol:       .         Acute oral toxicity       :       LD50 (Rat): 1,620 mg/kg         Acute inhalation toxicity       :       LC50 (Rat): > 4.178 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>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<br>Method: OECD Test Guideline 403         Sodium selenate:       .       .         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute derm<br>toxicity         Sodium selenate:       .         Acute oral toxicity       :       Acute toxicity estimate: 0.5 mg/kg<br>Method: Expert judgement<br>Remarks: Based on national or regional regulation.         Acute inhalation toxicity       :       LC50 (Rat): > 0.052 - 0.51 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403         abamectin (combination of avermectin B1a and avermectin B1b) (ISO):<br>Acute oral toxicity       :       LD50 (Rat): 24 mg/kg<br>LD50 (Mouse): 10 mg/kg<br>Symptoms: Dilatation of the pupil | Acute       | dermal toxicity           | :      | Remarks: No da                    | ta available  |
| Benzyl alcohol:         Acute oral toxicity       :       LD50 (Rat): 1,620 mg/kg         Acute inhalation toxicity       :       LC50 (Rat): > 4.178 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403         Citric acid:       .         Acute oral toxicity       :       LD50 (Mouse): 5,400 mg/kg         Acute oral toxicity       :       LD50 (Rat): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute derm<br>toxicity         Sodium selenate:       .         Acute oral toxicity       :         LC50 (Rat): > 0.052 - 0.51 mg/l         Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403         Acute oral toxicity       :         LC50 (Rat): > 0.052 - 0.51 mg/l         Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403         abamectin (combination of avermectin B1a and avermectin B1b) (ISO):         Acute oral toxicity       :         LD50 (Mouse): 10 mg/kg<br>LD50 (Mouse): 10 mg/kg         LD50 (Mouse): 10 mg/kg         LD50 (Mouse): 10 mg/kg         LDLo (Monkey): 24 mg/kg  | Cobalt      | t disodium ethylene       | diam   | inetetraacetate:                  |   |
| Acute oral toxicity       :       LD50 (Rat): 1,620 mg/kg         Acute inhalation toxicity       :       LC50 (Rat): > 4.178 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>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<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute derm<br>toxicity         Sodium selenate:       .         Acute oral toxicity       :       Acute toxicity estimate: 0.5 mg/kg<br>Method: Expert judgement<br>Remarks: Based on national or regional regulation.         Acute inhalation toxicity       :       LC50 (Rat): > 0.052 - 0.51 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>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       .       .         LD50 (Mouse): 10 mg/kg       .       .         LD50 (Mouse): 10 mg/kg       .       .         LDLo (Monkey): 24 mg/kg       .       .   | Acute       | oral toxicity             | :      |                                   |   |
| Acute inhalation toxicity       :       LC50 (Rat): > 4.178 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>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<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute derm<br>toxicity         Sodium selenate:       .         Acute oral toxicity       :       Acute toxicity estimate: 0.5 mg/kg<br>Method: Expert judgement<br>Remarks: Based on national or regional regulation.         Acute inhalation toxicity       :       LC50 (Rat): > 0.052 - 0.51 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403         abamectin (combination of avermectin B1a and avermectin B1b) (ISO):       Acute oral toxicity       :         Acute oral toxicity       :       LD50 (Rat): 24 mg/kg<br>Symptoms: Dilatation of the pupil   | Benzy       | l alcohol:                |        |                                   |   |
| 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 derm toxicity         Sodium selenate:         Acute oral 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 (Mouse): 10 mg/kg         LD50 (Mouse): 10 mg/kg         LDL0 (Monkey): 24 mg/kg         Symptoms: Dilatation of the pupil  | Acute       | oral toxicity             | :      | LD50 (Rat): 1,62                  | 20 mg/kg  |
| Acute oral toxicity:LD50 (Mouse): 5,400 mg/kgAcute dermal toxicity:LD50 (Rat): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute derm<br>toxicitySodium selenate:<br>Acute oral toxicity:Acute toxicity estimate: 0.5 mg/kg<br>Method: Expert judgement<br>Remarks: Based on national or regional regulation.Acute inhalation toxicity:LC50 (Rat): > 0.052 - 0.51 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403abamectin (combination of avermectin B1a and avermectin B1b) (ISO):<br>Acute oral toxicity:LD50 (Rat): 24 mg/kg<br>LD50 (Mouse): 10 mg/kg<br>LDLo (Monkey): 24 mg/kg<br>Symptoms: Dilatation of the pupil   | Acute i     | inhalation toxicity       | :      | Exposure time:<br>Test atmosphere | 4 h<br>e: dust/mist   |
| Acute dermal toxicity       : LD50 (Rat): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute derm<br>toxicity         Sodium selenate:       .         Acute oral toxicity       : Acute toxicity estimate: 0.5 mg/kg<br>Method: Expert judgement<br>Remarks: Based on national or regional regulation.         Acute inhalation toxicity       : LC50 (Rat): > 0.052 - 0.51 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403         abamectin (combination of avermectin B1a and avermectin B1b) (ISO):<br>Acute oral toxicity       : LD50 (Rat): 24 mg/kg<br>LD50 (Mouse): 10 mg/kg<br>LDLo (Monkey): 24 mg/kg   | Citric a    | acid:                     |        |                                   |   |
| Method: OECD Test Guideline 402         Assessment: The substance or mixture has no acute derr toxicity         Sodium selenate:         Acute oral toxicity       : Acute toxicity estimate: 0.5 mg/kg<br>Method: Expert judgement<br>Remarks: Based on national or regional regulation.         Acute inhalation toxicity       : LC50 (Rat): > 0.052 - 0.51 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403         abamectin (combination of avermectin B1a and avermectin B1b) (ISO):         Acute oral toxicity       : LD50 (Rat): 24 mg/kg<br>LD50 (Mouse): 10 mg/kg         LDLo (Monkey): 24 mg/kg<br>Symptoms: Dilatation of the pupil   | Acute       | oral toxicity             | :      | LD50 (Mouse):                     | 5,400 mg/kg   |
| Acute oral toxicity       : Acute toxicity estimate: 0.5 mg/kg<br>Method: Expert judgement<br>Remarks: Based on national or regional regulation.         Acute inhalation toxicity       : LC50 (Rat): > 0.052 - 0.51 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403         abamectin (combination of avermectin B1a and avermectin B1b) (ISO):<br>Acute oral toxicity       : LD50 (Rat): 24 mg/kg<br>LD50 (Mouse): 10 mg/kg         LDLo (Monkey): 24 mg/kg<br>Symptoms: Dilatation of the pupil   | Acute       | dermal toxicity           | :      | Method: OECD<br>Assessment: Th    | Test Guideline 402  |
| Method: Expert judgement<br>Remarks: Based on national or regional regulation.         Acute inhalation toxicity       : LC50 (Rat): > 0.052 - 0.51 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403         abamectin (combination of avermectin B1a and avermectin B1b) (ISO):<br>Acute oral toxicity       : LD50 (Rat): 24 mg/kg<br>LD50 (Mouse): 10 mg/kg         LDLo (Monkey): 24 mg/kg<br>Symptoms: Dilatation of the pupil   | Sodiu       | m selenate:               |        |                                   |   |
| 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       | oral toxicity             | :      | Method: Expert                    | judgement   |
| Acute oral toxicity : LD50 (Rat): 24 mg/kg<br>LD50 (Mouse): 10 mg/kg<br>LDLo (Monkey): 24 mg/kg<br>Symptoms: Dilatation of the pupil   | Acute i     | inhalation toxicity       | :      | Exposure time:<br>Test atmosphere | 4 h<br>e: dust/mist   |
| Acute oral toxicity       : LD50 (Rat): 24 mg/kg         LD50 (Mouse): 10 mg/kg         LDLo (Monkey): 24 mg/kg         Symptoms: Dilatation of the pupil  | abame       | ectin (combination o      | of ave | rmectin B1a and                   | avermectin B1b) (ISO):  |
| LDLo (Monkey): 24 mg/kg<br>Symptoms: Dilatation of the pupil   |             | •                         |        |                                   |   |
| Symptoms: Dilatation of the pupil  |             |                           |        | LD50 (Mouse):                     | 10 mg/kg  |
| Acute inhalation toxicity : LC50 (Rat): 0.023 mg/l   |             |                           |        |                                   |   |
|  | Acute       | inhalation toxicity       | :      | LC50 (Rat): 0.02                  | 23 mg/l   |



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|----------------|--|------------------|-----------------------------|---|
|                |  |                  |                             |   |
|                |  |                  | osure time: 4<br>atmosphere |   |
| Acute          | e dermal toxicity                              | : LD5            | 0 (Rat): 330                | mg/kg   |
|                |  | LD5              | 0 (Rabbit): 2               | 2,000 mg/kg   |
| -              | corrosion/irritation<br>lassified based on ava | ilable inforr    | nation.                     |   |
| Com            | ponents:                                       |                  |                             |   |
| levar          | nisole hydrochloride                           | :                |                             |   |
| Rema           | arks   | : No c           | lata availabl               | e   |
| Coba           | It disodium ethylene                           | diaminetet       | raacetate:                  |   |
| Spec           |  | : Rab            |                             |   |
| Meth           |  |                  | D Test Guid                 |   |
| Resu           |  |                  | kin irritation              |   |
| Rema           | arks   | : Bas            | ed on data fi               | rom similar materials   |
|                | yl alcohol:                                    |                  |                             |   |
| Spec           |  | : Rab            |                             |   |
| Meth           |  |                  | D Test Gui                  |   |
| Resu           | п  | : 10.5           | kin irritation              |   |
|                | c acid:  |                  |                             |   |
| Spec           |  | : Rab            |                             |   |
| Meth<br>Resu   |  |                  | D Test Guid                 |   |
| Resu           | it.  | . 110 3          |                             |   |
| Sodi           | um selenate:                                   |                  |                             |   |
| Spec           |  |                  |                             | uman epidermis (RhE)  |
| Meth           | od   | : OEC            | D Test Guid                 | deline 431  |
| Spec<br>Meth   |  |                  | nstructed hu<br>D Test Guid | uman epidermis (RhE)<br>deline 439                                |
| Resu           |  |                  | irritation                  |   |
| 11630          | i.   | . UNIT           | intation                    |   |
| aban           | nectin (combination o                          | of avermec       | tin B1a and                 | avermectin B1b) (ISO):  |
| Spec           |  | : Rab            |                             |   |
| Resu           | lt   | : No s           | kin irritation              |   |



| ersion<br>5 | Revision Date:<br>2024/04/06       | SDS Number:<br>10813897-00006 | Date of last issue: 2023/12/04<br>Date of first issue: 2022/07/12 |
|-------------|------------------------------------|-------------------------------|---|
|             |                                    |                               |   |
| Serio       | us eye damage/eye                  | irritation                    |   |
| Not c       | lassified based on av              | ailable information.          |   |
| Com         | oonents:                           |                               |   |
| levan       | nisole hydrochloride               | <b>;</b>                      |   |
| Rema        | arks                               | : No data availab             | le  |
| Coba        | It disodium ethylen                | ediaminetetraacetate:         |   |
| Speci       |                                    | : Rabbit                      |   |
| Resu        |                                    | : No eye irritation           |   |
| Rema        | arks                               | : Based on data f             | rom similar materials   |
| Benz        | yl alcohol:                        |                               |   |
| Speci       |                                    | : Rabbit                      |   |
| Resu        |                                    |                               | , reversing within 21 days  |
| Metho       | DQ                                 | : OECD Test Gui               | aeiine 405  |
| Citric      | acid:                              |                               |   |
| Speci       |                                    | : Rabbit                      |   |
| Resu        |                                    |                               | , reversing within 21 days  |
| Metho       | DC                                 | : OECD Test Gui               | deline 405  |
| Sodiu       | um selenate:                       |                               |   |
| Speci       |                                    | : Bovine cornea               |   |
| Metho       | bd                                 | : OECD Test Gui               | deline 437  |
| Resu        | lt                                 | : No eye irritation           |   |
| abam        | ectin (combination                 | of avermectin B1a and         | l avermectin B1b) (ISO):  |
| Speci       | es                                 | : Rabbit                      |   |
| Resu        | lt                                 | : Mild eye irritatio          | n   |
| Resp        | iratory or skin sens               | itisation                     |   |
| Skin        | sensitisation                      |                               |   |
| Not c       | lassified based on av              | ailable information.          |   |
| -           | iratory sensitisation              |                               | a difficultion if inheled   |
| -           | cause allergy or asthr<br>ponents: | na symptoms or breathii       | ny uniculies il innaled.  |
|             | nisole hydrochloride               | 2.                            |   |
| Rema        | -                                  | : No data availab             |   |
| I/GUIG      | 1110                               | . INU UALA AVAIIAD            |   |



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#### Cobalt disodium ethylenediaminetetraacetate:

| Exposure routes<br>Species<br>Result<br>Remarks | : | inhalation (dust/mist/fume)<br>Humans<br>positive<br>Based on data from similar materials |
|---|---|---|
| Assessment                                      | : | Probability or evidence of low to moderate respiratory sensiti-<br>sation rate in humans  |
| Benzyl alcohol:                                 |   |   |

| Test Type       | : | Maximisation Test       |
|-----------------|---|-------------------------|
| Exposure routes | : | Skin contact            |
| Species         | : | Guinea pig              |
| Method          | : | OECD Test Guideline 406 |
| Result          | : | negative                |

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

| Test Type       | : | Maximisation Test      |
|-----------------|---|------------------------|
| Exposure routes | : | Skin contact           |
| Result          | : | Not a skin sensitizer. |

### Germ cell mutagenicity

Suspected of causing genetic defects.

### Components:

| levamisole hydrochloride:<br>Genotoxicity in vitro : | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative  |
|--|---|
|  | Test Type: Chromosome aberration test in vitro<br>Result: negative  |
| Cobalt disodium ethylenediami                        | inetetraacetate:  |
| Genotoxicity in vitro :                              | Test Type: Bacterial reverse mutation assay (AMES)<br>Method: OECD Test Guideline 471<br>Result: negative<br>Remarks: Based on data from similar materials    |
|  | Test Type: In vitro mammalian cell gene mutation test<br>Method: OECD Test Guideline 476<br>Result: positive<br>Remarks: Based on data from similar materials |

Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473



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|----------------|---------------------------------|---|
|                |                                 |   |
|                |                                 | Result: positive<br>Remarks: Based on data from similar materials   |
| Geno           | otoxicity in vivo               | <ul> <li>Test Type: Micronucleus test<br/>Species: Mouse<br/>Application Route: Intraperitoneal injection<br/>Result: positive<br/>Remarks: Based on data from similar materials</li> <li>Test Type: Mutagenicity (in vivo mammalian bone-marrow<br/>cytogenetic test, chromosomal analysis)<br/>Species: Mouse<br/>Application Route: Ingestion<br/>Result: positive<br/>Remarks: Based on data from similar materials</li> <li>Test Type: Rodent dominant lethal test (germ cell) (in vivo)<br/>Species: Mouse<br/>Application Route: Ingestion<br/>Result: positive<br/>Remarks: Based on data from similar materials</li> </ul> |
|                | n cell mutagenicity -<br>ssment | <ul> <li>Positive result(s) from in vivo mammalian somatic cell muta-<br/>genicity tests.</li> <li>Remarks: Based on data from similar materials</li> </ul>   |
| Benz           | yl alcohol:                     |   |
| Geno           | otoxicity in vitro              | : Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative  |
| Geno           | otoxicity in vivo               | : Test Type: Mammalian erythrocyte micronucleus test (in vivo<br>cytogenetic assay)<br>Species: Mouse<br>Application Route: Intraperitoneal injection<br>Result: negative   |
| Citric         | c acid:                         |   |
| Geno           | otoxicity in vitro              | : Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative  |
|                |                                 | Test Type: in vitro micronucleus test<br>Result: positive   |
|                |                                 | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative  |
| Geno           | otoxicity in vivo               | : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  |
|                |                                 |   |



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|----------------|---|-----|--|--|
|                |   |     | Species: Rat<br>Application Route<br>Result: negative            | e: Ingestion   |
| Sodi           | um selenate:                                    |     |  |  |
|                | toxicity in vitro                               | :   | Method: OECD T<br>Result: negative                               | rial reverse mutation assay (AMES)<br>Test Guideline 471<br>on data from similar materials       |
| abarr          | ectin (combination of                           | ave | rmectin B1a and  | avermectin B1b) (ISO):   |
|                | toxicity in vitro                               | :   |  | rial reverse mutation assay (AMES)   |
|                |   |     |  | o mammalian cell gene mutation test<br>nese hamster lung cells                                   |
|                |   |     | Test Type: Alkali<br>Result: negative                            | ne elution assay   |
| Geno           | toxicity in vivo                                | :   | cytogenetic test,<br>Species: Mouse                              | genicity (in vivo mammalian bone-marrow<br>chromosomal analysis)<br>e: Intraperitoneal injection |
|                | i <b>nogenicity</b><br>ected of causing cancer. |     |  |  |
| Com            | ponents:  |     |  |  |
| levan          | nisole hydrochloride:                           |     |  |  |
| Spec<br>Appli  | ies<br>cation Route<br>sure time<br>EL          |     | Mouse<br>Oral<br>2 Years<br>80 mg/kg body w<br>No significant ad | eight<br>verse effects were reported   |
|                | cation Route<br>sure time<br>EL                 |     | Rat<br>Oral<br>2 Years<br>40 mg/kg body w<br>No significant ad   | eight<br>verse effects were reported   |



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### Cobalt disodium ethylenediaminetetraacetate:

| Species<br>Application Route<br>Exposure time<br>Result<br>Remarks | : | Rat<br>inhalation (dust/mist/fume)<br>105 weeks<br>positive<br>Based on data from similar materials    |
|--|---|--|
| Species<br>Application Route<br>Exposure time<br>Result<br>Remarks | : | Mouse<br>inhalation (dust/mist/fume)<br>105 weeks<br>positive<br>Based on data from similar materials  |
| Carcinogenicity - Assess-<br>ment                                  | : | Limited evidence of carcinogenicity in animal studies<br>Remarks: Based on data from similar materials |

#### 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<br>Application Route<br>Exposure time<br>Result | : | Rat<br>Oral<br>105 weeks<br>negative  |
|---|---|---------------------------------------|
| Species<br>Application Route<br>Exposure time<br>Result | : | Mouse<br>Oral<br>93 weeks<br>negative |

#### Reproductive toxicity

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

#### Components:

#### levamisole hydrochloride:

| Effects on fertility               | : | Test Type: Three-generation reproduction toxicity study<br>Species: Rat<br>Application Route: Oral<br>Result: No significant adverse effects were reported |
|------------------------------------|---|--|
| Effects on foetal develop-<br>ment | : | Test Type: Embryo-foetal development<br>Species: Rat<br>Application Route: Oral  |



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|----------------|--|--|--|
|                |  | Result: Fetot<br>Test Type: El<br>Species: Rab<br>Application R  | mbryo-foetal development<br>obit<br>coute: Oral<br>cal Toxicity: LOAEL: 40 mg/kg body weight   |
| Repro<br>sessr | oductive toxicity - As-<br>nent          | : Some eviden<br>animal exper  | ce of adverse effects on development, based on iments.   |
|                | It disodium ethylened<br>is on fertility | <ul> <li>Test Type: Fe<br/>Species: Rat<br/>Application R<br/>Result: positi<br/>Remarks: Ba</li> <li>Test Type: Fe<br/>Species: Mou<br/>Application R<br/>Result: positi<br/>Remarks: Ba</li> <li>Test Type: Fe<br/>Species: Mou<br/>Application R<br/>Result: positi<br/>Remarks: Ba</li> <li>Test Type: Fe<br/>Species: Rat<br/>Application R<br/>Result: positi</li> </ul> | ertility/early embryonic development<br>coute: Ingestion<br>ve<br>sed on data from similar materials<br>ertility/early embryonic development<br>use<br>coute: Ingestion<br>ve<br>sed on data from similar materials<br>ertility/early embryonic development<br>use<br>coute: inhalation (dust/mist/fume)<br>ve<br>sed on data from similar materials<br>ertility/early embryonic development |
| Effect<br>ment | ts on foetal develop-                    | Species: Rat<br>Application R<br>Method: OEC<br>Result: negation   | oute: Ingestion<br>D Test Guideline 414  |
| Repro<br>sessr | oductive toxicity - As-<br>nent          | fertility, based   | ce of adverse effects on sexual function and<br>d on animal experiments.<br>sed on data from similar materials   |

### Benzyl alcohol:



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|-------------|-----------------|------------------------------|------|--|--|
|             |                 |                              |      |  |  |
|             | Effects         | on fertility                 | :    | Species: Rat<br>Application Route:<br>Result: negative                                 | //early embryonic development<br>: Ingestion<br>on data from similar materials                                     |
|             | Effects<br>ment | on foetal develop-           | :    | Test Type: Embry<br>Species: Mouse<br>Application Route:<br>Result: negative           | o-foetal development<br>: Ingestion  |
|             | Citric a        | cid:                         |      |  |  |
|             | Effects<br>ment | on foetal develop-           | :    | Test Type: One-ge<br>Species: Rat<br>Application Route:<br>Result: negative            | eneration reproduction toxicity study  |
|             | Sodiun          | n selenate:                  |      |  |  |
|             | Effects         | on fertility                 | :    | Species: Rat<br>Application Route:<br>Result: negative                                 | eneration reproduction toxicity study<br>Ingestion<br>on data from similar materials                               |
|             | Effects<br>ment | on foetal develop-           | :    | Species: Mouse<br>Application Route:<br>Result: negative                               | o-foetal development<br>: Ingestion<br>on data from similar materials  |
|             | ahamo           | ctin (combination of         | avor | mectin B1a and a   | vermectin B1b) (ISO):  |
|             |                 | on fertility                 |      | Test Type: Fertility<br>Species: Rat, male<br>Application Route:<br>Result: Effects on | /<br>e<br>: Oral   |
|             |                 |                              |      | Species: Rat<br>Application Route:   | Development: NOAEL: 0.12 mg/kg body  |
|             | Effects<br>ment | on foetal develop-           | :    | Species: Mouse<br>Application Route:<br>General Toxicity N                             | o-foetal development<br>: Oral<br>/aternal: NOAEL: 0.05 mg/kg body weight<br>oxicity: NOAEL: 0.2 mg/kg body weight |



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|---------------|----------------|--|----------|---|---|
|               |                |  |          |   |   |
|               |                |  |          |   |   |
|               |                |  |          | Result: Cleft pala<br>Remarks: Advers   | te<br>e developmental effects were observed   |
|               |                |  |          | Species: Rabbit<br>Application Route<br>Developmental T<br>Result: Cleft pala<br>survival     | yo-foetal development<br>e: Oral<br>oxicity: LOAEL: 2 mg/kg body weight<br>te, Teratogenic effects, Reduced embryonic<br>se developmental effects were observed |
|               |                |  |          | Test Type: Devel<br>Species: Rat<br>Application Route<br>Developmental T<br>Result: Teratoger | e: Oral<br>oxicity: LOAEL: 1.6 mg/kg body weight  |
|               | eprod<br>essme | luctive toxicity - As-<br>ent                | :        | Some evidence c<br>fertility, based on  | of adverse effects on sexual function and<br>animal experiments., Some evidence of<br>n development, based on animal experi-                                    |
| N             | lot cla        | single exposure<br>ssified based on availa   | able     | information.  |   |
|               |                | onents:                                      |          |   |   |
| -             | itric a        |  | :        | May cause respir  | atory irritation.   |
| S             | тот -          | · repeated exposure                          |          |   |   |
|               |                | use damage to organs                         | s thr    | ough prolonged or   | repeated exposure.  |
| <u>C</u>      | ompo           | onents:                                      |          |   |   |
| Та            |                | <b>sole hydrochloride:</b><br>Organs<br>ment | :        | Blood, Testis<br>May cause dama<br>exposure.  | ge to organs through prolonged or repeated  |
| -             |                |  |          |   |   |
|               |                | disodium ethylenedi<br>Ire routes            | amı<br>: | inhalation (dust/m  | nist/fume)  |
| Та            |                | Organs                                       | :        | Respiratory Tract<br>Shown to product   |   |
| R             | lemarl         | ks   | :        |   | om similar materials  |
| E             | xposu          | ire routes                                   | :        | Ingestion   |   |



| ersion<br>5   | Revision Date: 2024/04/06 | SDS Number:Date of last issue: 2023/12/0410813897-00006Date of first issue: 2022/07/12  |
|---------------|---------------------------|---|
|               |                           |   |
| Targe         | t Organs                  | : Thyroid, Heart, Blood   |
|               | sment                     | <ul> <li>Shown to produce significant health effects in animals at co<br/>centrations of &gt;10 to 100 mg/kg bw.</li> </ul>             |
| Rema          | rks                       | : Based on data from similar materials  |
|               | ım selenate:              |   |
|               | sure routes<br>ssment     | <ul> <li>Ingestion</li> <li>Shown to produce significant health effects in animals at co centrations of 10 mg/kg bw or less.</li> </ul> |
| abam          | ectin (combination        | of avermectin B1a and avermectin B1b) (ISO):  |
| •             | sure routes               | : Ingestion   |
|               | t Organs<br>ssment        | <ul> <li>Central nervous system</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> </ul>                     |
| Repe          | ated dose toxicity        |   |
| <u>Comp</u>   | oonents:                  |   |
| levan         | nisole hydrochloride      | :   |
| Speci<br>NOAE |                           | : Rat   |
| -             | ation Route               | : 2.5 mg/kg<br>: Oral   |
|               | sure time                 | : 18 Months   |
|               | t Organs                  | : Testis  |
| Speci         |                           | : Dog   |
| LÖAE          |                           | : 20 mg/kg  |
|               | ation Route               | : Oral<br>: 18 Months   |
|               | t Organs                  | : Blood   |
| Speci         |                           | : Dog   |
| LOAE          |                           | : 40 mg/kg  |
|               | ation Route               | : Oral<br>: 3 Months  |
| Expo          |                           |   |
|               | -                         | diaminetetraacetate:  |
| Speci<br>LOAE |                           | : Rat $> 10 \text{ mg/kg}$  |
|               | ation Route               | : > 10 mg/kg<br>: Ingestion   |
| Expos         | sure time                 | : 90 Days   |
| Rema          |                           | : Based on data from similar materials  |
| Speci         |                           | : Rat   |
| LOAE          | L                         | : < 0.01 mg/l   |



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|---|---|---|---|---|
| Expos<br>Metho<br>Rema<br>Speci<br>LOAE<br>Applic<br>Expos<br>Metho                   | arks<br>es<br>EL<br>cation Route<br>sure time<br>od   | : 13<br>: OE<br>: Ba<br>: Mc<br>: < 0<br>: inh<br>: 13<br>: OE                          | ouse<br>).01 mg/l<br>nalation (dust/<br>Weeks<br>ECD Test Gui                       | ideline 413<br>from similar materials<br>/mist/fume)<br>ideline 413 |
| Rema  | arks  | : Ba  | sed on data f   | from similar materials  |
| Speci<br>NOAE<br>Applic   | EL<br>cation Route<br>sure time   | : inh<br>: 28   | it<br>)72 mg/l<br>halation (dust/<br>Days<br>ECD Test Gui                           |   |
| Speci<br>NOAE<br>LOAE<br>Applic   | ΞL  | : 8,0<br>: Ing  | it<br>)00 mg/kg<br>)00 mg/kg<br>gestion<br>Days                                     |   |
| Speci<br>NOAE<br>Applie   |   | : Ing   | it<br>4 mg/kg<br>gestion<br>Weeks   |   |
| Speci<br>NOAE<br>Applic<br>Expos<br>Targe<br>Symp<br>Speci<br>NOAE<br>Applic<br>Expos | es<br>EL<br>cation Route<br>sure time<br>et Organs<br>otoms<br>es<br>EL<br>cation Route<br>sure time<br>et Organs | : Ra<br>: 1.5<br>: Or<br>: 24<br>: Ce<br>: Tre<br>: Mc<br>: 4.0<br>: Or<br>: 24<br>: Ce | at<br>5 mg/kg<br>al<br>Months<br>entral nervous<br>emors, ataxia<br>puse<br>) mg/kg | system  |



|  | e of last issue: 2023/12/04<br>e of first issue: 2022/07/12 |
|--|---|
|--|---|

| Species<br>NOAEL<br>LOAEL<br>Application Route<br>Exposure time<br>Target Organs<br>Symptoms<br>Remarks |   | Dog<br>0.25 mg/kg<br>0.5 mg/kg<br>Oral<br>53 Weeks<br>Central nervous system<br>Tremors, weight loss<br>mortality observed |
|---|---|--|
| Species<br>NOAEL<br>Application Route<br>Exposure time<br>Target Organs                                 | : | Monkey<br>1.0 mg/kg<br>Oral<br>14 Weeks<br>Central nervous system  |

### Aspiration toxicity

Not classified based on available information.

### Experience with human exposure

#### Components:

| levamisole hydrochloride:<br>Ingestion : | Symptoms: Nausea, Vomiting, Headache, Dizziness, hypo-<br>tension   |
|--|---|
| Cobalt disodium ethylenediam             | ninetetraacetate:   |
| Inhalation :                             | Target Organs: Respiratory system<br>Remarks: Based on data from similar materials                                      |
| Ingestion :                              | Target Organs: Blood<br>Remarks: Based on data from similar materials<br>Target Organs: Heart<br>Target Organs: Thyroid |
| abamectin (combination of ave            | ermectin B1a and avermectin B1b) (ISO):   |
| Ingestion :                              | Symptoms: May cause, Tremors, Diarrhoea, central nervous system effects, Salivation, tearing                            |

### **12. ECOLOGICAL INFORMATION**

| Ecotoxicity                   |   |   |
|-------------------------------|---|---|
| Components:                   |   |   |
| levamisole hydrochloride:     |   |   |
| Toxicity to fish              | : | LC50 (Oryzias latipes (Japanese medaka)): 37.3 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other | : | EC50 (Daphnia magna (Water flea)): 64 mg/l  |



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|-------------|----------------------|--|-----|--|---|
|             |                      |  |     |  |   |
|             | aquatic              | invertebrates  |     | Exposure time: 48<br>Method: OECD Te                             | h<br>est Guideline 202  |
|             | Cobalt               | disodium ethylenedia                                 | ami | netetraacetate:  |   |
|             |                      | to daphnia and other invertebrates                   | :   | Exposure time: 48<br>Method: OECD Te                             |   |
|             | Toxicity<br>plants   | to algae/aquatic                                     | :   | 100 mg/l<br>Exposure time: 72<br>Method: OECD Te                 |   |
|             | Toxicity<br>icity)   | to fish (Chronic tox-                                | :   | Exposure time: 34  | (zebra fish)): > 1 mg/l<br>d<br>on data from similar materials    |
|             |                      | to daphnia and other<br>invertebrates (Chron-<br>ty) | :   | Exposure time: 28<br>Method: OECD Te                             |   |
|             | M-Facto<br>toxicity) | or (Chronic aquatic                                  | :   | 1  |   |
|             | Benzyl               | alcohol:   |     |  |   |
|             | Toxicity             | to fish  | :   | LC50 (Pimephales<br>Exposure time: 96                            | s promelas (fathead minnow)): 460 mg/l<br>h                       |
|             |                      | to daphnia and other invertebrates                   | :   | EC50 (Daphnia m<br>Exposure time: 48<br>Method: OECD Te          |   |
|             | Toxicity<br>plants   | to algae/aquatic                                     | :   | EC50 (Pseudokirc<br>mg/l<br>Exposure time: 72<br>Method: OECD Te |   |
|             |                      |  |     | NOEC (Pseudokir<br>mg/l<br>Exposure time: 72<br>Method: OECD Te  |   |
|             |                      | to daphnia and other<br>invertebrates (Chron-<br>ty) | :   | NOEC (Daphnia n<br>Exposure time: 21<br>Method: OECD Te          |   |



| Versio<br>1.5 | on                          | Revision Date:<br>2024/04/06                         |          | 9S Number:<br>813897-00006                                 | Date of last issue: 2023/12/04<br>Date of first issue: 2022/07/12                       |
|---------------|-----------------------------|--|----------|--|---|
|               |                             |  |          |  |   |
|               | <b>Citric a</b><br>Toxicity |  | :        | LC50 (Pimephales<br>Exposure time: 96                      | s promelas (fathead minnow)): > 100 mg/l<br>S h   |
|               |                             | to daphnia and other invertebrates                   | :        | EC50 (Daphnia m<br>Exposure time: 24                       | agna (Water flea)): 1,535 mg/l<br>I h   |
| ç             | Sodium                      | n selenate:  |          |  |   |
|               | Toxicity                    |  | :        | Exposure time: 96  | s promelas (fathead minnow)): > 1 - 10 mg/l<br>5 h<br>on data from similar materials    |
|               |                             | to daphnia and other invertebrates                   | :        | Exposure time: 48  | agna (Water flea)): > 1 - 10 mg/l<br>3 h<br>on data from similar materials              |
|               | Toxicity<br>plants          | to algae/aquatic                                     | :        | ErC50 (Chlamydo<br>Exposure time: 96                       | monas reinhardtii (green algae)): 245 µg/l<br>≿h  |
|               |                             |  |          | NOEC (Chlamydo<br>Exposure time: 96                        | omonas reinhardtii (green algae)): 197 μg/l<br>δ h                                      |
|               |                             | or (Acute aquatic tox-                               | :        | 1  |   |
| ٦             | city)<br>Toxicity<br>city)  | to fish (Chronic tox-                                | :        | mg/l<br>Exposure time: 25                                  | macrochirus (Bluegill sunfish)): > 0.01 - 0.1<br>58 d<br>on data from similar materials |
| a             |                             | to daphnia and other<br>invertebrates (Chron-<br>ty) | :        | NOEC: > 0.1 - 1 n<br>Exposure time: 28<br>Remarks: Based o |   |
| Ν             | M-Facto                     | or (Chronic aquatic                                  | :        | 1  |   |
|               | oxicity)<br>Toxicity        | to microorganisms                                    | :        | EC10 (activated s<br>Exposure time: 3<br>Method: OECD Te   | h   |
|               | <b>abame</b><br>Toxicity    | •  | ave<br>: | LC50 (Oncorhync  | <b>avermectin B1b) (ISO):</b><br>hus mykiss (rainbow trout)): 3.2 μg/l                  |
|               |                             |  |          | Exposure time: 96<br>LC50 (Lepomis m<br>Exposure time: 96  | acrochirus (Bluegill sunfish)): 9.6 µg/l  |
|               |                             |  |          |  | unctatus (channel catfish)): 24 µg/l  |
|               |                             |  |          |  |   |



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|-------------|------------------------------|---|----|--|---|
|             |                              |   |    |  |   |
|             |                              |   |    |  |   |
|             |                              |   |    | LC50 (Cyprinus ca<br>Exposure time: 96   | arpio (Carp)): 42 µg/l<br>Sh                                      |
|             |                              |   |    | LC50 (Cyprinodor<br>Exposure time: 96  | n variegatus (sheepshead minnow)): 15 μg/l<br>δ h                 |
|             |                              | to daphnia and other invertebrates            | :  | EC50 (Americamy<br>Exposure time: 96   |   |
|             |                              |   |    | EC50 (Daphnia m<br>Exposure time: 48   | agna (Water flea)): 0.34 µg/l<br>⊱h                               |
|             | Toxicity<br>plants           | to algae/aquatic                              | :  | EC50 (Pseudokiro<br>mg/l<br>Exposure time: 72                                    | chneriella subcapitata (green algae)): 100<br>? h                 |
|             |                              | or (Acute aquatic tox-                        | :  | 10,000   |   |
|             | icity)<br>Toxicity<br>icity) | to fish (Chronic tox-                         | :  | NOEC (Pimephale<br>Exposure time: 32   | es promelas (fathead minnow)): 0.52 μg/l<br>2 d                   |
|             | aquatic                      | to daphnia and other<br>invertebrates (Chron- | :  | NOEC (Daphnia r<br>Exposure time: 21   | nagna (Water flea)): 0.03 μg/l<br>d                               |
|             | ic toxici                    | ty)   |    | NOEC (Mysidopsi<br>Exposure time: 28   | s bahia (opossum shrimp)): 0.0035 µg/l<br>3 d                     |
|             |                              | or (Chronic aquatic                           | :  | 10,000   |   |
|             | toxicity)<br>Toxicity        | to microorganisms                             | :  | EC50: > 1,000 mg   |   |
|             |                              |   |    | Exposure time: 3<br>Test Type: Respir  |   |
|             | Persist                      | ence and degradabili                          | ty |  |   |
|             | Compo                        | onents:                                       |    |  |   |
|             | Benzyl                       | alcohol:                                      |    |  |   |
|             | Biodegi                      | radability                                    | :  | Result: Readily bid<br>Biodegradation: 9<br>Exposure time: 14                    | 92 - 96 %   |
|             | Citric a                     | cid:  |    |  |   |
|             | Biodegi                      | radability                                    | :  | Result: Readily bio<br>Biodegradation: S<br>Exposure time: 28<br>Method: OECD Te | 97 %  |

Revision Date:

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Date of last issue: 2023/12/04

## Abamectin / Levamisole Hydrochloride / Cobalt EDTA / Sodium Selenate Formulation

SDS Number:

| 5       | 2024/04/06                               | 10813897-00006                      | Date of first issue: 2023/12/04<br>Date of first issue: 2022/07/12   |
|---------|--|-------------------------------------|--|
| aham    | actin (combination d                     | of overmeetin P1e e                 | nd avermectin B1b) (ISO):  |
|         | lity in water                            | : Hydrolysis: 50                    |  |
| Bioa    | ccumulative potentia                     | I                                   |  |
| Com     | ponents:                                 |                                     |  |
| Coba    | It disodium ethylene                     | diaminetetraacetate                 | 9:   |
|         | ion coefficient: n-<br>ol/water          | : log Pow: -3.8<br>Remarks: Ca      |  |
| Benz    | yl alcohol:                              |                                     |  |
|         | ion coefficient: n-<br>ol/water          | : log Pow: 1.05                     |  |
| Citric  | acid:                                    |                                     |  |
|         | ion coefficient: n-<br>ol/water          | : log Pow: -1.7                     | 2  |
| abam    | nectin (combination o                    | of avermectin B1a a                 | nd avermectin B1b) (ISO):  |
| Bioac   | cumulation                               | : Bioconcentra                      | tion factor (BCF): 52  |
|         | ion coefficient: n-<br>ol/water          | : log Pow: 4                        |  |
| Mobi    | lity in soil                             |                                     |  |
| Com     | ponents:                                 |                                     |  |
|         | •  |                                     | nd avermectin B1b) (ISO):  |
|         | bution among environ-<br>al compartments | : log Koc: > 3.6                    | 3  |
| Othe    | r adverse effects                        |                                     |  |
| No da   | ata available                            |                                     |  |
| . DISPC | SAL CONSIDERATIO                         | ONS                                 |  |
| Dispo   | osal methods                             |                                     |  |
| -       | e from residues                          |                                     | e of waste into sewer.   |
| Conta   | aminated packaging                       | : Empty contain<br>dling site for r | accordance with local regulations.<br>hers should be taken to an approved waste ha<br>ecycling or disposal.<br>se specified: Dispose of as unused product. |

#### 14. TRANSPORT INFORMATION

### International Regulations

Class

Labels

Packing group



## Abamectin / Levamisole Hydrochloride / Cobalt EDTA / Sodium Selenate Formulation

| rsion<br>5                   | Revision Date:<br>2024/04/06                        | SDS Num<br>10813897          |                | Date of last issue: 2023/12/04<br>Date of first issue: 2022/07/12   |
|------------------------------|---|------------------------------|----------------|---|
|                              | <b>FDG</b><br>umber<br>er shipping name             | : UN 30<br>: ENVIR<br>N.O.S. | ONMENT         | ALLY HAZARDOUS SUBSTANCE, LIQUID  |
|                              |   | (abarr                       | nectin (com    | bination of avermectin B1a and avermectin<br>It disodium ethylenediaminetetraacetate)   |
| Class                        | i   | : 9 ``                       | ,,             | ,   |
| Packing group                |   | : 111                        |                |   |
| Labels                       |   | : 9                          |                |   |
| Environmentally hazardous    |   | : yes                        |                |   |
| ΙΑΤΑ                         | -DGR  |                              |                |   |
| UN/IE                        | ) No.   | : UN 30                      | 82             |   |
| Prope                        | er shipping name                                    | (abarr                       | nectin (com    | nazardous substance, liquid, n.o.s.<br>Ibination of avermectin B1a and avermectir<br>It disodium ethylenediaminetetraacetate) |
| Class                        | i   | : 9                          | ,,             | , , , , , , , , , , , , , , , , , , ,   |
| Packi                        | ng group  | : 111                        |                |   |
| Label                        | S   | : Miscel                     | laneous        |   |
| aircra                       |   | : 964                        |                |   |
| ger ai                       | ng instruction (passen-<br>rcraft)                  | : 964                        |                |   |
| Enviro                       | onmentally hazardous                                | : yes                        |                |   |
| IMDG                         | i-Code  |                              |                |   |
|                              | umber   | : UN 30                      | -              |   |
| Prope                        | er shipping name                                    | N.O.S.                       |                | ALLY HAZARDOUS SUBSTANCE, LIQUIE  |
|                              |   | B1b) (I                      |                | bination of avermectin B1a and avermectin<br>It disodium ethylenediaminetetraacetate)   |
| Class                        |   | : 9                          |                |   |
|                              | ng group  | :                            |                |   |
| Label                        | -   | : 9                          | -              |   |
| EmS Code<br>Marine pollutant |   | : F-A, S                     | -              |   |
|                              |   | : yes                        |                |   |
|                              | sport in bulk according<br>pplicable for product as |                              | II of MARF     | OL 73/78 and the IBC Code   |
| Natio                        | nal Regulations                                     |                              |                |   |
| GB 6                         | 944/12268   |                              |                |   |
| UN nu                        | umber   | : UN 30                      | 82             |   |
| Prope                        | er shipping name                                    | N.O.S.                       |                | ALLY HAZARDOUS SUBSTANCE, LIQUIE  |
|                              |   |                              |                | It disodium ethylenediaminetetraacetate)  |
| Class                        |   | · 0                          | ,, · · · · · · | ,   |

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: 9



| Version | Revision Date: | SDS Number:    | Date of last issue: 2023/12/04  |
|---------|----------------|----------------|---------------------------------|
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Marine pollutant : no

### 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.

### 15. REGULATORY INFORMATION

#### National regulatory information

### Law on the Prevention and Control of Occupational Diseases

#### **Regulation on the Administration of Precursor Chemicals**

Catalogue and Classification of Precursor Chemicals : Not listed

### Yangtze River Protection Law

This product is prohibited for inland river transport.

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

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

#### **16. OTHER INFORMATION**

| Revision Date   |   | 2024/04/06   |  |  |  |
|---|---|--|--|--|--|
| Further information   |   |  |  |  |  |
| Sources of key data used to<br>compile the Safety Data<br>Sheet | : | Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/ |  |  |  |
| Date format   | : | yyyy/mm/dd   |  |  |  |
| Full text of other abbreviations                                |   |  |  |  |  |
| ACGIH   | : | USA. ACGIH Threshold Limit Values (TLV)  |  |  |  |
| CN OEL  | : | Occupational exposure limits for hazardous agents in the workplace - Chemical hazardous agents.  |  |  |  |
| ACGIH / TWA<br>CN OEL / PC-TWA<br>CN OEL / PC-STEL              |   | 8-hour, time-weighted average<br>Permissible concentration - time weighted average<br>Permissible concentration - short term exposure limit  |  |  |  |

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



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

### Disclaimer

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

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