

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Milbemycin Oxime / Lufenuron / Praziquantel Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/30/2023  |
| 3.3     | 09/28/2024     | 7567903-00011 | Date of first issue: 11/20/2020 |

### SECTION 1. IDENTIFICATION

Product name : Milbemycin Oxime / Lufenuron / Praziquantel Formulation

#### Manufacturer or supplier's details

Company name of supplier : Merck & Co., Inc  
Address : 126 E. Lincoln Avenue  
Rahway, New Jersey U.S.A. 07065  
Telephone : 908-740-4000  
Emergency telephone : 1-908-423-6000  
E-mail address : EHSDATASTEWARD@merck.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Veterinary product  
Restrictions on use : Not applicable

### SECTION 2. HAZARDS IDENTIFICATION

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

Combustible dust

Skin sensitization : Category 1

Reproductive toxicity : Category 1B

Specific target organ toxicity : Category 1 (Central nervous system, Lungs, Liver, Stomach)  
- repeated exposure (Oral)

#### GHS label elements

Hazard pictograms :



Signal Word : Danger

Hazard Statements : If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.  
H317 May cause an allergic skin reaction.  
H360D May damage the unborn child.  
H372 Causes damage to organs (Central nervous system, Lungs, Liver, Stomach) 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

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and understood.  
P260 Do not breathe dust, fume, gas, mist, vapors or spray.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing must not be allowed out of the workplace.  
P280 Wear protective gloves, protective clothing, eye protection and face protection.

### Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P308 + P313 IF exposed or concerned: Get medical attention.  
P333 + P313 If skin irritation or rash occurs: Get medical attention.  
P363 Wash contaminated clothing before reuse.

### Storage:

P405 Store locked up.

### Disposal:

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

### Other hazards

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

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

| Chemical name          | CAS-No.      | Concentration (% w/w) |
|------------------------|--------------|-----------------------|
| Starch                 | 9005-25-8    | 31.94                 |
| Glycerine              | 56-81-5      | 12                    |
| Lufenuron (ISO)        | 103055-07-8  | 7.67                  |
| Sucrose                | 57-50-1      | 5                     |
| Savorysel Bacon Flavor | Not Assigned | 5                     |
| Praziquantel           | 55268-74-1   | 3.8                   |
| Milbemycin Oxime       | 129496-10-2  | 0.39                  |

## 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.  
Get medical attention.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.

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|                                                             |                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| In case of eye contact                                      | : Remove contaminated clothing and shoes.<br>Get medical attention.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse.                                                                                                                               |
| If swallowed                                                | : If in eyes, rinse well with water.<br>Get medical attention if irritation develops and persists.<br>If swallowed, DO NOT induce vomiting.<br>Get medical attention.                                                                                                    |
| Most important symptoms and effects, both acute and delayed | : Rinse mouth thoroughly with water.<br>May cause an allergic skin reaction.<br>May damage the unborn child.<br>Causes damage to organs through prolonged or repeated exposure if swallowed.<br>Contact with dust can cause mechanical irritation or drying of the skin. |
| Protection of first-aiders                                  | : Dust contact with the eyes can lead to mechanical irritation.<br>First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).                           |
| Notes to physician                                          | : Treat symptomatically and supportively.                                                                                                                                                                                                                                |

### SECTION 5. FIRE-FIGHTING MEASURES

|                                                |                                                                                                                                                                                                                                                   |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>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<br>Nitrogen oxides (NO <sub>x</sub> )<br>Metal oxides<br>Chlorine compounds                                                                                                                                                       |
| Specific extinguishing methods                 | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for fire-fighters | : In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.                                                                                                                                            |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Personal precautions, protection | : Use personal protective equipment. |
|----------------------------------|--------------------------------------|

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- |                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tive equipment and emergency procedures               | : | Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Environmental precautions                             | : | Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Methods and materials for containment and cleaning up | : | Sweep up or vacuum up spillage and collect in suitable container for disposal.<br>Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).<br>Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.<br>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.<br>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

### SECTION 7. HANDLING AND STORAGE

- |                             |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures          | : | Static electricity may accumulate and ignite suspended dust causing an explosion.<br>Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Local/Total ventilation     | : | If sufficient ventilation is unavailable, use with local exhaust ventilation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Advice on safe handling     | : | Do not get on skin or clothing.<br>Do not breathe dust, fume, gas, mist, vapors or spray.<br>Do not swallow.<br>Avoid contact with eyes.<br>Wash skin thoroughly after handling.<br>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment<br>Keep container tightly closed.<br>Minimize dust generation and accumulation.<br>Keep container closed when not in use.<br>Keep away from heat and sources of ignition.<br>Take precautionary measures against static discharges.<br>Do not eat, drink or smoke when using this product.<br>Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | : | Keep in properly labeled containers.<br>Store locked up.<br>Keep tightly closed.<br>Store in accordance with the particular national regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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Materials to avoid : Do not store with the following product types:  
Strong oxidizing agents  
Self-reactive substances and mixtures  
Organic peroxides  
Explosives  
Gases

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components                | CAS-No.      | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis     |
|---------------------------|--------------|----------------------------------|------------------------------------------------|-----------|
| Starch                    | 9005-25-8    | TWA                              | 10 mg/m <sup>3</sup>                           | ACGIH     |
|                           |              | TWA (Respirable)                 | 5 mg/m <sup>3</sup>                            | NIOSH REL |
|                           |              | TWA (total)                      | 10 mg/m <sup>3</sup>                           | NIOSH REL |
|                           |              | TWA (total dust)                 | 15 mg/m <sup>3</sup>                           | OSHA Z-1  |
|                           |              | TWA (respirable fraction)        | 5 mg/m <sup>3</sup>                            | OSHA Z-1  |
| Lufenuron (ISO)           | 103055-07-8  | TWA                              | 60 µg/m <sup>3</sup> (OEB 3)                   | Internal  |
| Further information: DSEN |              |                                  |                                                |           |
|                           |              | Wipe limit                       | 100 µg/100 cm <sup>2</sup>                     | Internal  |
| Sucrose                   | 57-50-1      | TWA                              | 10 mg/m <sup>3</sup>                           | ACGIH     |
|                           |              | TWA (Respirable)                 | 5 mg/m <sup>3</sup>                            | NIOSH REL |
|                           |              | TWA (total)                      | 10 mg/m <sup>3</sup>                           | NIOSH REL |
|                           |              | TWA (total dust)                 | 15 mg/m <sup>3</sup>                           | OSHA Z-1  |
|                           |              | TWA (respirable fraction)        | 5 mg/m <sup>3</sup>                            | OSHA Z-1  |
| Savorysels Bacon Flavor   | Not Assigned | Wipe limit                       | OEB 2 (>= 100 < 1000 µg/m <sup>3</sup> )       | Internal  |
| Praziquantel              | 55268-74-1   | TWA                              | 0.5 mg/m <sup>3</sup> (OEB 2)                  | Internal  |
| Milbemycin Oxime          | 129496-10-2  | TWA                              | 0.1 mg/m <sup>3</sup> (OEB2)                   | Internal  |

**Engineering measures** : 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**

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- Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
- Hand protection
- Material : Chemical-resistant gloves
- Remarks : Consider double gloving.
- Eye protection : Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
- Skin and body protection : Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
- Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : solid
- Color : brown
- Odor : characteristic
- Odor Threshold : No data available
- pH : No data available

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|                                                  |   |                                                                                 |
|--------------------------------------------------|---|---------------------------------------------------------------------------------|
| Melting point/freezing point                     | : | No data available                                                               |
| Initial boiling point and boiling range          | : | No data available                                                               |
| Flash point                                      | : | Not applicable                                                                  |
| Evaporation rate                                 | : | Not applicable                                                                  |
| Flammability (solid, gas)                        | : | May form explosive dust-air mixture during processing, handling or other means. |
| Flammability (liquids)                           | : | Not applicable                                                                  |
| Upper explosion limit / Upper flammability limit | : | No data available                                                               |
| Lower explosion limit / Lower flammability limit | : | No data available                                                               |
| Vapor pressure                                   | : | Not applicable                                                                  |
| Relative vapor density                           | : | Not applicable                                                                  |
| Relative density                                 | : | No data available                                                               |
| Density                                          | : | No data available                                                               |
| Solubility(ies)<br>Water solubility              | : | soluble                                                                         |
| Partition coefficient: n-octanol/water           | : | Not applicable                                                                  |
| Autoignition temperature                         | : | No data available                                                               |
| Decomposition temperature                        | : | No data available                                                               |
| Viscosity<br>Viscosity, kinematic                | : | Not applicable                                                                  |
| Explosive properties                             | : | Not explosive                                                                   |
| Oxidizing properties                             | : | The substance or mixture is not classified as oxidizing.                        |
| Molecular weight                                 | : | No data available                                                               |
| Particle characteristics<br>Particle size        | : | No data available                                                               |

### SECTION 10. STABILITY AND REACTIVITY

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|                                    |   |                                                                                                                            |
|------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | : | Not classified as a reactivity hazard.                                                                                     |
| Chemical stability                 | : | Stable under normal conditions.                                                                                            |
| Possibility of hazardous reactions | : | May form explosive dust-air mixture during processing, handling or other means.<br>Can react with strong oxidizing agents. |
| Conditions to avoid                | : | Heat, flames and sparks.<br>Avoid dust formation.                                                                          |
| Incompatible materials             | : | Oxidizing agents                                                                                                           |
| Hazardous decomposition products   | : | No hazardous decomposition products are known.                                                                             |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Not classified based on available information.

#### Product:

|                       |   |                                                                      |
|-----------------------|---|----------------------------------------------------------------------|
| Acute oral toxicity   | : | Acute toxicity estimate: > 5,000 mg/kg<br>Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate: > 5,000 mg/kg<br>Method: Calculation method |

#### Components:

##### Starch:

|                       |   |                              |
|-----------------------|---|------------------------------|
| Acute oral toxicity   | : | LD50 (Rat): > 5,000 mg/kg    |
| Acute dermal toxicity | : | LD50 (Rabbit): > 2,000 mg/kg |

##### Glycerine:

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

##### Lufenuron (ISO):

|                           |   |                                                                   |
|---------------------------|---|-------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Rat): > 2,000 mg/kg<br>LD50 (Mouse): > 2,000 mg/kg          |
| Acute inhalation toxicity | : | LC50 (Rat): 2,350 mg/m <sup>3</sup><br>Test atmosphere: dust/mist |

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

### Sucrose:

Acute oral toxicity : LD50 (Rat): 29,700 mg/kg

### Savorysel Bacon Flavor:

Acute oral toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : Remarks: Not classified due to lack of data.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

### Praziquantel:

Acute oral toxicity : LD50 (Rat): 2,480 mg/kg  
LD50 (Mouse): 2,454 mg/kg  
LD50 (Dog): > 200 mg/kg  
LD50 (Rabbit): 1,050 mg/kg

### Milbemycin Oxime:

Acute oral toxicity : LD50 (Rat): 532 - 863 mg/kg  
LD50 (Mouse): 722 - 946 mg/kg

Acute inhalation toxicity : LC50 (Rat): 1,200 mg/m<sup>3</sup>  
Exposure time: 4 h  
Test atmosphere: dust/mist

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

### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### Glycerine:

Species : Rabbit  
Result : No skin irritation

#### Lufenuron (ISO):

Species : Rabbit  
Method : Draize Test  
Result : No skin irritation

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### Savorysel Bacon Flavor:

Remarks : Based on data from similar materials  
May irritate skin.

### Praziquantel:

Species : Rabbit  
Method : Draize Test  
Remarks : slight irritation

### Milbemycin Oxime:

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

### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

#### Starch:

Species : Rabbit  
Result : No eye irritation

#### Glycerine:

Species : Rabbit  
Result : No eye irritation

#### Lufenuron (ISO):

Species : Rabbit  
Result : No eye irritation  
Method : Draize Test

### Savorysel Bacon Flavor:

Remarks : Based on data from similar materials  
May irritate eyes.

### Praziquantel:

Species : Rabbit  
Result : Mild eye irritation  
Method : Draize Test

### Milbemycin Oxime:

Species : Rabbit  
Result : No eye irritation

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### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

Not classified based on available information.

#### Components:

##### Starch:

|                    |                     |
|--------------------|---------------------|
| Test Type          | : Maximization Test |
| Routes of exposure | : Skin contact      |
| Species            | : Guinea pig        |
| Result             | : negative          |

##### Lufenuron (ISO):

|            |                                            |
|------------|--------------------------------------------|
| Test Type  | : Maximization Test                        |
| Species    | : Guinea pig                               |
| Assessment | : May cause sensitization by skin contact. |
| Result     | : Sensitizer                               |

##### Savorysel Bacon Flavor:

|         |                                       |
|---------|---------------------------------------|
| Remarks | : Not classified due to lack of data. |
|---------|---------------------------------------|

##### Praziquantel:

|                    |                          |
|--------------------|--------------------------|
| Test Type          | : Maximization Test      |
| Routes of exposure | : Dermal                 |
| Species            | : Guinea pig             |
| Result             | : Not a skin sensitizer. |

##### Milbemycin Oxime:

|                    |                |
|--------------------|----------------|
| Routes of exposure | : Skin contact |
| Species            | : Guinea pig   |
| Result             | : negative     |

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### Starch:

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

##### Glycerine:

|                       |                                                         |
|-----------------------|---------------------------------------------------------|
| Genotoxicity in vitro | : Test Type: In vitro mammalian cell gene mutation test |
|                       | Result: negative                                        |

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

Test Type: Chromosome aberration test in vitro  
Result: negative

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
Result: negative

### Lufenuron (ISO):

Genotoxicity in vitro

: Test Type: Ames test  
Result: negative

Test Type: Mouse Lymphoma  
Test system: Chinese hamster cells  
Result: negative

Test Type: Cytogenetic assay  
Test system: Chinese hamster ovary cells  
Result: negative

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
Test system: rat hepatocytes  
Result: negative

Test system: Human lymphocytes  
Result: negative

Genotoxicity in vivo

: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Result: negative

Test Type: Unscheduled DNA synthesis test (UDS) in testicular cells  
Species: Rat  
Result: negative

Germ cell mutagenicity - Assessment

: Weight of evidence does not support classification as a germ cell mutagen.

### Sucrose:

Genotoxicity in vitro

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

### Savorysel Bacon Flavor:

Genotoxicity in vitro

: Remarks: Not classified due to lack of data.

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Genotoxicity in vivo : Remarks: Not classified due to lack of data.

### **Praziquantel:**

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

Test Type: Chromosomal aberration  
Test system: Chinese hamster cells  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Rat  
Result: negative

### **Milbemycin Oxime:**

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

Test Type: Chromosome aberration test in vitro  
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Result: negative

### **Carcinogenicity**

Not classified based on available information.

### **Components:**

#### **Glycerine:**

Species : Rat  
Application Route : Ingestion  
Exposure time : 2 Years  
Result : negative

#### **Lufenuron (ISO):**

Species : Rat  
Application Route : Ingestion  
Exposure time : 18 month(s)  
Result : negative

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

### **Praziquantel:**

Species : Hamster  
Application Route : Oral

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Exposure time : 80 weeks  
NOAEL : 100 mg/kg body weight  
Result : negative  
Remarks : No significant adverse effects were reported

Species : Rat  
Application Route : Oral  
Exposure time : 104 weeks  
NOAEL : 250 mg/kg body weight  
Result : negative  
Remarks : No significant adverse effects were reported

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### Reproductive toxicity

May damage the unborn child.

### Components:

#### **Glycerine:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

#### **Lufenuron (ISO):**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Oral  
General Toxicity Parent: NOAEL: 8.3 mg/kg wet weight  
Early Embryonic Development: NOAEL: 20.9 mg/kg body weight  
Result: Animal testing did not show any effects on fertility.

Effects on fetal development : Test Type: Development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 500 mg/kg body weight  
Developmental Toxicity: NOAEL: 1,000 mg/kg body weight

# SAFETY DATA SHEET

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## Milbemycin Oxime / Lufenuron / Praziquantel Formulation

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Symptoms: No adverse effects.  
Remarks: No significant adverse effects were reported

Test Type: Fertility/early embryonic development  
Species: Rat  
Application Route: Ingestion  
General Toxicity Maternal: NOAEL: 20.9 mg/kg body weight  
Embryo-fetal toxicity.: 8.3 mg/kg body weight  
Result: Fetal abnormalities.

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

### Savorysel Bacon Flavor:

Effects on fertility : Remarks: No data available

Effects on fetal development : Remarks: No data available

### Praziquantel:

Effects on fertility : Test Type: Fertility  
Species: Rat  
Remarks: No significant adverse effects were reported

Test Type: Fertility  
Species: Mouse  
Remarks: No significant adverse effects were reported

Effects on fetal development : Test Type: Development  
Species: Rat  
Remarks: No significant adverse effects were reported

Test Type: Development  
Species: Mouse  
Remarks: No significant adverse effects were reported

### Milbemycin Oxime:

Effects on fertility : Test Type: One-generation reproduction toxicity study  
Species: Dog  
Application Route: Ingestion  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Ingestion  
Result: negative

Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Ingestion  
Result: negative

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Test Type: Embryo-fetal development  
Species: Dog  
Application Route: Ingestion  
Result: negative

### STOT-single exposure

Not classified based on available information.

#### Components:

##### Lufenuron (ISO):

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT-repeated exposure

Causes damage to organs (Central nervous system, Lungs, Liver, Stomach) through prolonged or repeated exposure if swallowed.

#### Components:

##### Lufenuron (ISO):

Routes of exposure : Oral  
Target Organs : Central nervous system, Lungs, Liver, Stomach  
Assessment : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

##### Milbemycin Oxime:

Routes of exposure : Ingestion  
Target Organs : Central nervous system  
Assessment : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

### Repeated dose toxicity

#### Components:

##### Starch:

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

##### Glycerine:

Species : Rat  
NOAEL : 0.167 mg/l  
LOAEL : 0.622 mg/l  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 13 Weeks

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|                   |                        |
|-------------------|------------------------|
| Species           | : Rat                  |
| NOAEL             | : 8,000 - 10,000 mg/kg |
| Application Route | : Ingestion            |
| Exposure time     | : 2 y                  |

|                   |                |
|-------------------|----------------|
| Species           | : Rabbit       |
| NOAEL             | : 5,040 mg/kg  |
| Application Route | : Skin contact |
| Exposure time     | : 45 Weeks     |

### Lufenuron (ISO):

|                   |                                            |
|-------------------|--------------------------------------------|
| Species           | : Rat                                      |
| NOAEL             | : 5.34 mg/kg                               |
| Application Route | : oral (feed)                              |
| Exposure time     | : 4 Months                                 |
| Target Organs     | : Central nervous system, digestive system |
| Symptoms          | : central nervous system effects           |

|                   |                                               |
|-------------------|-----------------------------------------------|
| Species           | : Rat                                         |
| NOAEL             | : 1.93 mg/kg                                  |
| Application Route | : oral (feed)                                 |
| Exposure time     | : 2 y                                         |
| Symptoms          | : central nervous system effects, Convulsions |

|                   |                                               |
|-------------------|-----------------------------------------------|
| Species           | : Mouse                                       |
| NOAEL             | : 2.12 mg/kg                                  |
| Application Route | : oral (feed)                                 |
| Exposure time     | : 18 Months                                   |
| Target Organs     | : Central nervous system, Liver, Prostate     |
| Symptoms          | : central nervous system effects, Convulsions |

|                   |                                         |
|-------------------|-----------------------------------------|
| Species           | : Dog                                   |
| NOAEL             | : 7.02 mg/kg                            |
| Application Route | : oral (feed)                           |
| Exposure time     | : 1 y                                   |
| Target Organs     | : Central nervous system, Liver, Lungs  |
| Symptoms          | : Convulsions, Fatality, Irregularities |

### Savorysels Bacon Flavor:

|         |                                       |
|---------|---------------------------------------|
| Remarks | : Not classified due to lack of data. |
|---------|---------------------------------------|

### Praziquantel:

|                   |                                                |
|-------------------|------------------------------------------------|
| Species           | : Rat                                          |
| NOAEL             | : 1,000 mg/kg                                  |
| Application Route | : Oral                                         |
| Remarks           | : No significant adverse effects were reported |

|         |            |
|---------|------------|
| Species | : Dog      |
| NOAEL   | : 60 mg/kg |

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## Milbemycin Oxime / Lufenuron / Praziquantel Formulation

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|                   |   |                                              |
|-------------------|---|----------------------------------------------|
| LOAEL             | : | 180 mg/kg                                    |
| Application Route | : | Oral                                         |
| Target Organs     | : | Gastrointestinal tract                       |
| Remarks           | : | No significant adverse effects were reported |

### Milbemycin Oxime:

|                   |   |                                  |
|-------------------|---|----------------------------------|
| Species           | : | Rat                              |
| NOAEL             | : | 3 mg/kg                          |
| LOAEL             | : | 15 mg/kg                         |
| Application Route | : | Ingestion                        |
| Exposure time     | : | 90 Days                          |
| Symptoms          | : | Liver disorders, Blood disorders |

|                   |   |           |
|-------------------|---|-----------|
| Species           | : | Dog       |
| LOAEL             | : | 8.6 mg/kg |
| Application Route | : | Ingestion |
| Exposure time     | : | 3 Days    |
| Symptoms          | : | Tremors   |

### Aspiration toxicity

Not classified based on available information.

### Experience with human exposure

#### Components:

#### Lufenuron (ISO):

|                     |   |                                                                        |
|---------------------|---|------------------------------------------------------------------------|
| General Information | : | Remarks: May be harmful if swallowed.<br>May cause neurotoxic effects. |
|---------------------|---|------------------------------------------------------------------------|

#### Savorysel Bacon Flavor:

|                     |   |                                                                                           |
|---------------------|---|-------------------------------------------------------------------------------------------|
| General Information | : | Remarks: Based on data from similar materials<br>May irritate skin.<br>May irritate eyes. |
|---------------------|---|-------------------------------------------------------------------------------------------|

#### Praziquantel:

|            |   |                                                                                                                      |
|------------|---|----------------------------------------------------------------------------------------------------------------------|
| Inhalation | : | Symptoms: Headache, Tiredness, Dizziness, Gastrointestinal discomfort, decrease body temperature, Allergic reactions |
|------------|---|----------------------------------------------------------------------------------------------------------------------|

#### Milbemycin Oxime:

|           |   |                                                                                                                     |
|-----------|---|---------------------------------------------------------------------------------------------------------------------|
| Ingestion | : | Symptoms: Salivation, Convulsions, Diarrhea, Weakness, Vomiting, Tremors, Coma<br>Remarks: Based on Animal Evidence |
|-----------|---|---------------------------------------------------------------------------------------------------------------------|

### Further information

#### Components:

#### Savorysel Bacon Flavor:

|         |   |                                         |
|---------|---|-----------------------------------------|
| Remarks | : | No toxicology information is available. |
|---------|---|-----------------------------------------|

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## Milbemycin Oxime / Lufenuron / Praziquantel Formulation

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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Components:

##### **Glycerine:**

|                                                     |   |                                                                                              |
|-----------------------------------------------------|---|----------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l<br>Exposure time: 96 h               |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 1,955 mg/l<br>Exposure time: 48 h                         |
| Toxicity to microorganisms                          | : | NOEC (Pseudomonas putida): > 10,000 mg/l<br>Exposure time: 16 h<br>Method: DIN 38 412 Part 8 |

##### **Lufenuron (ISO):**

|                                                     |   |                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): > 73,100 µg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br><br>LC50 (Oncorhynchus mykiss (rainbow trout)): > 29,000 µg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br><br>LC50 (Oncorhynchus mykiss (rainbow trout)): 370 µg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Americamysis): 0.042 µg/l<br>Exposure time: 96 h<br>Method: US-EPA OPPTS 850.1035<br><br>EC50 (Daphnia magna (Water flea)): 0.41 µg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                                                                                                                                                                |
| Toxicity to algae/aquatic plants                    | : | EC50 (Raphidocelis subcapitata (freshwater green alga)): 209 µg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>EC50 (Scenedesmus subspicatus): 17 µg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201                                                                                                                                 |
| Toxicity to fish (Chronic toxicity)                 | : | NOEC (Oncorhynchus mykiss (rainbow trout)): 80 µg/l<br>Exposure time: 33 d<br>Method: OECD Test Guideline 210                                                                                                                                                                                                                                                        |

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|         |                |               | Date of first issue: 11/20/2020 |

NOEC (Oncorhynchus mykiss (rainbow trout)): 20 µg/l  
Exposure time: 359 d  
Method: OECD Test Guideline 229

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 8.38 µg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

NOEC (Daphnia magna (Water flea)): 90 µg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

NOEC (Chironomus riparius (harlequin fly)): 2 µg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

### Praziquantel:

Toxicity to fish : LC50 (Carassius auratus (goldfish)): 29.2 mg/l  
Exposure time: 96 hrs  
Method: OECD Test Guideline 203

LC50 (Danio rerio (zebra fish)): 31.6 mg/l  
Exposure time: 96 hrs  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 35 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition of activated sludge  
Method: OECD Test Guideline 209

### Milbemycin Oxime:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.16 µg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.03 µg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50: > 87 µg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.01 µg/l

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### Persistence and degradability

#### Components:

##### **Glycerine:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 92 %  
Exposure time: 30 d  
Method: OECD Test Guideline 301D

### Bioaccumulative potential

#### Components:

##### **Glycerine:**

Partition coefficient: n-octanol/water : log Pow: -1.75

##### **Lufenuron (ISO):**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Bioconcentration factor (BCF): 28  
Method: OECD Test Guideline 305

Partition coefficient: n-octanol/water : log Pow: 5.12

##### **Sucrose:**

Partition coefficient: n-octanol/water : Pow: < 1

##### **Praziquantel:**

Partition coefficient: n-octanol/water : log Pow: 2.012  
pH: 7

##### **Milbemycin Oxime:**

Bioaccumulation : Bioconcentration factor (BCF): 440

Partition coefficient: n-octanol/water : log Pow: 7

### Mobility in soil

#### Components:

##### **Lufenuron (ISO):**

Distribution among environmental compartments : log Koc: 5.38  
Method: OECD Test Guideline 106

### Other adverse effects

No data available

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

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

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

|                           |   |                                                                                           |
|---------------------------|---|-------------------------------------------------------------------------------------------|
| UN number                 | : | UN 3077                                                                                   |
| Proper shipping name      | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Milbemycin Oxime, Lufenuron (ISO)) |
| Class                     | : | 9                                                                                         |
| Packing group             | : | III                                                                                       |
| Labels                    | : | 9                                                                                         |
| Environmentally hazardous | : | yes                                                                                       |

##### IATA-DGR

|                                          |   |                                                                                           |
|------------------------------------------|---|-------------------------------------------------------------------------------------------|
| UN/ID No.                                | : | UN 3077                                                                                   |
| Proper shipping name                     | : | Environmentally hazardous substance, solid, n.o.s.<br>(Milbemycin Oxime, Lufenuron (ISO)) |
| Class                                    | : | 9                                                                                         |
| Packing group                            | : | III                                                                                       |
| Labels                                   | : | Miscellaneous                                                                             |
| Packing instruction (cargo aircraft)     | : | 956                                                                                       |
| Packing instruction (passenger aircraft) | : | 956                                                                                       |
| Environmentally hazardous                | : | yes                                                                                       |

##### IMDG-Code

|                      |   |                                                                                           |
|----------------------|---|-------------------------------------------------------------------------------------------|
| UN number            | : | UN 3077                                                                                   |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Milbemycin Oxime, Lufenuron (ISO)) |
| 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

#### 49 CFR

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

### Special precautions for user

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

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

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

### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

|                             |                                                                                                                                                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SARA 311/312 Hazards</b> | : Combustible dust<br>Respiratory or skin sensitization<br>Reproductive toxicity<br>Specific target organ toxicity (single or repeated exposure) |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|

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

### US State Regulations

#### Pennsylvania Right To Know

|                        |              |
|------------------------|--------------|
| Starch                 | 9005-25-8    |
| Meat extracts, beef    | 68990-09-0   |
| Glycerine              | 56-81-5      |
| Lufenuron (ISO)        | 103055-07-8  |
| Sucrose                | 57-50-1      |
| Savorysel Bacon Flavor | Not Assigned |
| Water                  | 7732-18-5    |
| Praziquantel           | 55268-74-1   |

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### California Prop. 65

WARNING: This product can expose you to chemicals including tert-Butyl-4-methoxyphenol, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### California Permissible Exposure Limits for Chemical Contaminants

|           |           |
|-----------|-----------|
| Starch    | 9005-25-8 |
| Glycerine | 56-81-5   |
| Sucrose   | 57-50-1   |

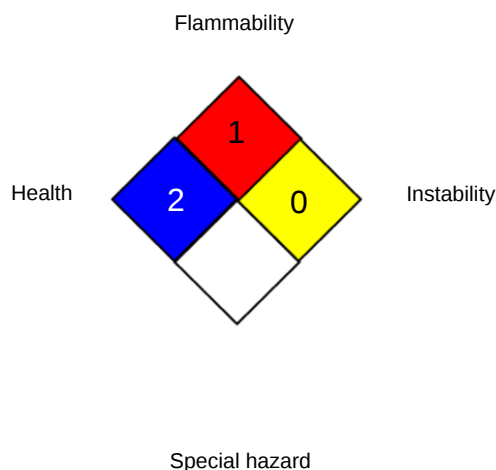
### The ingredients of this product are reported in the following inventories:

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

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

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

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

|                 |                                                                                             |
|-----------------|---------------------------------------------------------------------------------------------|
| ACGIH           | : USA. ACGIH Threshold Limit Values (TLV)                                                   |
| NIOSH REL       | : USA. NIOSH Recommended Exposure Limits                                                    |
| OSHA Z-1        | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants          |
| ACGIH / TWA     | : 8-hour, time-weighted average                                                             |
| NIOSH REL / TWA | : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| OSHA Z-1 / TWA  | : 8-hour time weighted average                                                              |

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|         |                |               |                                 |
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| Version | Revision Date: | SDS Number:   | Date of last issue: 09/30/2023  |
| 3.3     | 09/28/2024     | 7567903-00011 | Date of first issue: 11/20/2020 |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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

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

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