## **SAFETY DATA SHEETS**

## This SDS packet was issued with item: 078912317

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

078558855

Novartis Animal Health US, Inc. 3200 Northline Avenue, Suite 300 Greensboro, North Carolina 27408

In Case of Emergency, Call: Novartis Animal Health US, Inc. (8 CHEMTREC (8

(800)637-0281 (800)424-9300

## 1. CHEMICAL IDENTIFICATION

| Technical Name       | Milbemycin Oxime                         | Product No: | 86026          |
|----------------------|--|-------------|----------------|
| Trade Name(s)        | MilbeMite <sup>™</sup> OTIC Solution     |             |                |
| Active Ingredient(%) | 0.1 %                                    | CAS No:     | Not Applicable |
| Chemical Name        | A3 and A4 Oxime                          |             | (mixture)      |
| Chemical Class       | Macrolide Derivative Canine Anthelmintic | :           |                |

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

|                   | OSHA | ACGIH |       | NTP/IARC/OSHA |
|-------------------|------|-------|-------|---------------|
| Materials         | PEL  | TLV   | Other | Carcinogen    |
| Milbemycin Oxime  | None | None  |       | Not Listed    |
| Inert Ingredients | None | None  |       | Not Listed    |

## 3. HAZARDS IDENTIFICATION

## Notes to Physician:

There is no specific antidote if ingested. Induce emesis or lavage stomach. Treat symptomatically based on judgement of the physician, in response to reactions of the patient.

## Symptoms of Acute Exposure:

Eye irritation may occur if eye contact is made.

## Hazardous Decomposition Products:

None known

| Physical Properties: |                   |
|----------------------|-------------------|
| Appearance:          | Clear and Viscous |
| Odor:                | Odorless          |

## Unusual Fire, Explosion and Reactivity Hazards:

Under normal conditions of use this material does not present a significant fire or explosion hazard.

## 4. FIRST AID MEASURES

If human exposure is suspected, immediately contact a physician, the nearest hospital, or nearest Poison Control Center. Tell the person contacted the complete product name, chemical class, and type and amount of exposure. Describe any symptoms and follow the advice given.

Product Name: MilbeMite<sup>™</sup> Otic Solution Novartis Animal Health US, Inc.



## Ingestion:

If victim is fully conscious, immediately give 1 or 2 glasses of water with medicinal charcoal to drink repeatedly. Never give anything by mouth to an unconscious person.

## Eye Contact:

Immediately rinse eyes with a large amount of running water. Hold eyelids apart to rinse the entire surface of the eye and lids. Do not apply any medicating agents except on the advice of a physician.

#### Skin Contact:

Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents except on the advice of a physician. Remove contaminated clothing and wash before reuse.

#### Inhalation:

Move victim from contaminated area to fresh air. Apply artificial respiration if necessary.

#### Notes to Physician:

There is no specific antidote if ingested. Induce emesis or lavage stomach. Treat symptomatically based on judgement of the physician, in response to reactions of the patient.

## Medical Conditions Likely to be Aggravated by Exposure:

None

## 5. FIRE FIGHTING MEASURES

Fire and Explosion:

Flash Point (Test Method) Not Available Flammable Limits (% in Air) Not Available Autoignition Temperature Not Available Flammability Not Available

#### Unusual Fire, Explosion and Reactivity Hazards: None Known

## In Case of Fire:

Under normal conditions of use this material dose not present a significant fire or explosion hazard. Use dry chemical, foam, or  $CO_2$  extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential personnel from the area to prevent human exposure to fire, smoke, fumes, or products of combustion. Prevent use of buildings, area, and equipment until decontaminated.

## 6. ACCIDENTAL RELEASE MEASURES

## In Case of Spill or Leak:

For Clinic use: Cover spill with an absorbent material such as pet litter, sweep up and place in an approved chemical waste container. Wash the area with water containing a strong detergent, absorb with absorbent material, sweep up and place in chemical container. Flush the area with water to remove any residue.

For Bulk product: Wear chemical safety glasses or goggles, rubber gloves, rubber boots, long-sleeved

Product Name: MilbeMite<sup>™</sup> Otic Solution Novartis Animal Health US, Inc. Version 1.1 Page 2 of 5 shirt, long pants, and head covering. Cover with an absorbent material such as pet litter, sweep up and place in an approved chemical waste container. Wash the area with water containing a strong detergent, absorb with absorbent material, sweep up and place in chemical container. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

## 7. HANDLING AND STORAGE

Store at room temperature between 59 and 86° F (15-30° C). Shelf-life is 24 months.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

Ingestion:Not required under normal conditions of therapeutic administration and use.Eye Contact:Not required under normal conditions of therapeutic administration and use.Skin Contact:Not required under normal conditions of therapeutic administration and use.Inhalation:Not required under normal conditions of therapeutic administration and use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| Clear and Viscous |
|-------------------|
| Odorless          |
| Not Available     |
|                   |

## **10. STABILITY AND REACTIVITY**

<u>Reactivity:</u> Stability: Stable under normal handling and storage conditions. Hazardous Polymerization: Not available. Conditions to Avoid: Oxidizing agents

Hazardous Decomposition Products: None Known

## **11. TOXICOLOGICAL INFORMATION**

## Acute Toxicity/Irritation Studies:

| Acute Oral Toxicity:       |                              |                                  |
|----------------------------|------------------------------|----------------------------------|
| LD50:                      | 532-863 mg/kg (rat)          | Data based on technical material |
| Acute Dermal Toxicity:     |                              |                                  |
| LD50                       | >2000 mg/kg (rat)            | Data based on technical material |
| Acute Inhalation Toxicity: |                              |                                  |
| LC50                       | 1220 mg/m3 (rat; 4h)         | Data based on technical material |
| Acute Eye Irritation:      | Non irritant (rabbit)        | Data based on technical material |
| Acute Skin Irritation:     | Non irritant (rabbit)        | Data based on technical material |
| Skin Sensitization:        | Not sensitizing (guinea pig) | Data based on technical material |

Product Name: MilbeMite<sup>™</sup> Otic Solution Novartis Animal Health US, Inc.

Version 1.1 Page 3 of 5

# **U** NOVARTIS

technical material

| Mutagenic Potential in Vitro:   | Negative            | Data based on technical material            |  |  |
|---|---------------------|---|--|--|
| Reproductive Hazard Potential:  | Not Available       | Data based on technical material            |  |  |
| Chronic/Subchronic Toxicity Stud  | dies: A study was   | conducted to evaluate the safety of a 0.1%  |  |  |
| milbemycin oxime solution in adu  | ilt cats. Topical d | oses at 1x, 3x and 5x the recommended dose  |  |  |
| applied in one ear did not produce adverse effects. A study at 1x, 3x or 5x of the recommended 0.1%       |                     |   |  |  |
| milbemycin oxime solution administered once weekly for six applications conducted in kittens 4 weeks      |                     |   |  |  |
| of age at initiation did not produce adverse systemic or local effects. One kitten treated with a .5%     |                     |   |  |  |
| solution (5x) was lethargic 8 hours after the second treatment. In this kitten, lethargy was not observed |                     |   |  |  |
| after subsequent treatments.  |                     |   |  |  |
| Carcinogenic Potential:   |                     | Not Available                               |  |  |
| Teratogenicity:   |                     | Not teratogenic (rabbit, rat) Data based on |  |  |

**Toxicity of Other Components:** 

Not Available

Target Organs:Active Ingredients:None KnownInert Ingredients:None Known

## **12. ECOLOGICAL INFORMATION**

| Summary of Effects:        | Not Available |
|----------------------------|---------------|
| <b>Eco-Acute Toxicity:</b> | Not Available |
| Eco-Chronic Toxicity:      | Not Available |
| Environmental Fate:        | Not Available |

## 13. DISPOSAL CONSIDERATION

**Disposal:** Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste:Not AvailableListed Waste:Not Available

## **14. TRANSPORT INFORMATION**

DOT Classification: Not applicable, No label or placard required

B/L Freight Classification: Pharmaceutical Chemical, N.O.S.

International Transportation: Not Available

## **15. REGULATORY INFORMATION**

SARA Title III Classification:Section 311/312:NoneSection 313 chemical(s):None

<u>Proposition 65:</u> No component listed on California Prop. 65 List. <u>CERCLA Reportable Quantity (RO):</u> Not Available

Product Name: MilbeMite<sup>™</sup> Otic Solution Novartis Animal Health US, Inc.

Version 1.1 Page 4 of 5



**<u>RCRA Classification</u>**: Not Applicable

TSCA Status: Not Available

| 11  | OTUED | INTEODATATION |
|-----|-------|---------------|
| 16. | OTHER | INFORMATION   |

NFPA Hazard Ratings:Health:0Flammability:0Reactivity:0

0 Least 1 Slight 2 Moderate 3 High 4 Severe

Questions concerning the safe handling of this product should be referred to:

Novartis Animal Health US, Inc. 1-800-637-0281

Issued Date: Revised Date: October 1, 2001 January 16, 2002

Supersedes: Oc

October 1, 2001

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.





## 1. Identification

| Product identifier                           | MilbeMite™   |
|--|--|
| Other means of identification                |  |
| Item Code                                    | CA4800   |
| Synonyms                                     | Milbemite Otic Solution  |
| Recommended use                              | Veterinary Product   |
| Recommended restrictions                     | None known.  |
| Manufacturer/Importer/Supplier/              | Distributor information  |
| Company Name                                 | Elanco Animal Health   |
|  | 2500 Innovation Way  |
|  | Greenfield, IN 46140   |
|  | US   |
| Phone:                                       | 1-877-Elanco1 (1-877-352-6261)   |
| Email:                                       | lilly_msds@lilly.com   |
| Emergency Telephone                          | Elanco Product Technical Support / Human or Animal Exposure Reporting: |
| Numbers:                                     | 1-888-545-5973   |
| Transportation Emorganou                     | CHEMTREC: 1-800-424-9300   |
| Transportation Emergency<br>Telephone:       | (Outside U.S. 1-703-527-3887)  |
| 2. Hazard(s) identification                  |  |
| Physical hazards                             | Not classified.  |
| Health hazards                               | Not classified.  |
| OSHA defined hazards                         | Not classified.  |
| Label elements                               |  |
| Hazard symbol                                | None.  |
| Signal word                                  | None.  |
| Hazard statement                             | The mixture does not meet the criteria for classification.             |
| Precautionary statement                      |  |
| Prevention                                   | Not available.   |
| Response                                     | Not available.   |
| Storage                                      | Not available.   |
| Disposal                                     | Not available.   |
| Hazard(s) not otherwise<br>classified (HNOC) | None known.  |
| Supplemental information                     | None.  |
| 2 Composition/information                    | n on ingradianta   |

## 3. Composition/information on ingredients

#### **Mixtures**

| Chemical name         | Common name and synonyms   | CAS number         | %   |
|-----------------------|--|--------------------|-----|
| MILBEMYCIN OXIME      | (6R, 25R)-5-demethoxy-28-deoxy-6,<br>28-epoxy-5-hydroxyimino-25-ethyl/methyl<br>milbemycin B                         | 129496-10-2        | 0.1 |
| Composition comments  | Remaining components of this product are non-hazardous and/or are present at concentrations below reportable levels. |                    |     |
| 4. First-aid measures |  |                    |     |
| Inhalation            | Move to fresh air. Call a physician if symptoms de   | evelop or persist. |     |

Material name: MilbeMite™

6750 Version #: 01 Issue date: 08-16-2017

| Skin contact   | Wash off with soap and water. Get medical attention if irritation develops and persists.                         |
|--|--|
| Eye contact  | Rinse with water. Get medical attention if irritation develops and persists.                                     |
| Ingestion  | Rinse mouth. Get medical attention if symptoms occur.  |
| Most important<br>symptoms/effects, acute and<br>delayed                     | None known.  |
| Indication of immediate<br>medical attention and special<br>treatment needed | Treat symptomatically.   |
| General information  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |
| 5. Fire-fighting measures  |  |
| Suitable extinguishing media   | Water spray. Alcohol resistant foam. Powder. Carbon dioxide (CO2).   |
| Unsuitable extinguishing<br>media  | Do not use water jet as an extinguisher, as this will spread the fire.   |
| Specific hazards arising from the chemical                                   | During fire, gases hazardous to health may be formed.  |
| Special protective equipment<br>and precautions for firefighters             | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                    |
| Fire fighting equipment/instructions   | Use water spray to cool unopened containers.   |
| Specific methods   | Use standard firefighting procedures and consider the hazards of other involved materials.                       |

No unusual fire or explosion hazards noted.

General fire hazards

#### 6. Accidental release measures

|  | o. Accidental release measures  |   |  |
|--|---|---|--|
|  | Personal precautions,<br>protective equipment and<br>emergency procedures | Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during<br>clean-up. Local authorities should be advised if significant spillages cannot be contained. For<br>personal protection, see section 8 of the SDS. |  |
|  | Methods and materials for   | Prevent product from entering drains.   |  |
|  | containment and cleaning up   | Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.  |  |
|  |   | Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  |  |
|  |   | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.   |  |
|  | Environmental precautions   | Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Inform appropriate managerial or supervisory personnel of all environmental releases. Avoid discharge into drains, water courses or onto the ground.    |  |
|  | 7. Handling and storage   |   |  |
|  | Precautions for safe handling   | Observe good industrial hygiene practices.  |  |
|  | Conditions for safe storage, including any incompatibilities              | Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).   |  |
| 8. Exposure controls/personal protection |   |   |  |
|  | Occupational exposure limits  | No exposure limits noted for ingredient(s).   |  |
|  | Biological limit values   | No biological exposure limits noted for the ingredient(s).  |  |
|  | Exposure guidelines   | Novartis Internal Exposure Limit (NPIEL): 0.12 mg/m3 8 hour TWA (milbemycin oxime)  |  |
|  |   |   |  |

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates Appropriate engineering should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side shields (or goggles).

| Skin protection |   |
|-----------------|---|
| Hand protection | Wear appropriate chemical resistant gloves. |

controls

| Other                             | Wear suitable protective clothing.  |
|-----------------------------------|---|
| <b>Respiratory protection</b>     | In case of insufficient ventilation, wear suitable respiratory equipment.   |
| Thermal hazards                   | Not available.  |
| General hygiene<br>considerations | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. |

## 9. Physical and chemical properties

| Appearance                                   | Viscous.       |  |  |
|--|----------------|--|--|
| Physical state                               | Liquid.        |  |  |
| Form   | Liquid.        |  |  |
| Color  | Colorless      |  |  |
| Odor   | Odorless       |  |  |
| Odor threshold                               | Not available. |  |  |
| рН   | Not available. |  |  |
| Melting point/freezing point                 | Not available. |  |  |
| Initial boiling point and boiling range      | Not available. |  |  |
| Flash point                                  | Not available. |  |  |
| Evaporation rate                             | Not available. |  |  |
| Flammability (solid, gas)                    | Not available. |  |  |
| Upper/lower flammability or explosive limits |                |  |  |
| Flammability limit - lower<br>(%)            | Not available. |  |  |
| Flammability limit - upper<br>(%)            | Not available. |  |  |
| Explosive limit - lower (%)                  | Not available. |  |  |
| Explosive limit - upper (%)                  | Not available. |  |  |
| Vapor pressure                               | Not available. |  |  |
| Vapor density                                | Not available. |  |  |
| Relative density                             | Not available. |  |  |
| Solubility(ies)                              |                |  |  |
| Solubility (water)                           | Not available. |  |  |
| Partition coefficient<br>(n-octanol/water)   | Not available. |  |  |
| Auto-ignition temperature                    | Not available. |  |  |
| Decomposition temperature                    | Not available. |  |  |
| Viscosity                                    | Not available. |  |  |
| Other information                            |                |  |  |
| Explosive properties                         | Not explosive. |  |  |
| Oxidizing properties                         | Not oxidizing. |  |  |

## 10. Stability and reactivity

| Reactivity                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
|------------------------------------|---|
| Chemical stability                 | Material is stable under normal conditions.   |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use.                                   |
| Conditions to avoid                | Contact with incompatible materials.  |
| Incompatible materials             | Strong oxidizing agents.  |
| Hazardous decomposition            | No hazardous decomposition products are known.  |

## 11. Toxicological information

#### Information on toxicological effects

| Components   | Species  |   | Test Results                          |  |
|--|--|---|---------------------------------------|--|
| MILBEMYCIN OXIME (CAS 1294                                 | 496-10-2)  |   |                                       |  |
| <u>Acute</u>   |  |   |                                       |  |
| Dermal   |  |   |                                       |  |
| LD50   | Rat  |   | > 2000 mg/kg                          |  |
| Inhalation   | -  |   |                                       |  |
| LC50   | Rat  |   | 1220 mg/m3, 4 h                       |  |
| <b>Oral</b><br>LD  | Rat  |   | $> 2000 ma/m^2$                       |  |
|  |  | · · · · · · · · · · · · · · · · · · ·   | > 2000 mg/m3                          |  |
| Skin corrosion/irritation                                  | Based on a   | irritation (milbemycin oxime)<br>available data, the classification criteria ar                               | e not met.                            |  |
| Serious eye damage/eye<br>irritation                       |  | Rabbit: No irritation (milbemycin oxime)<br>Based on available data, the classification criteria are not met. |                                       |  |
| Respiratory or skin sensitizatio                           | on   |   |                                       |  |
| Respiratory sensitization                                  |  | c of data the classification is not possible.   |                                       |  |
| Skin sensitization   |  | ): Not a skin sensitizer. (milbemycin oxime available data, the classification criteria are available data.   |                                       |  |
| Germ cell mutagenicity                                     | Result in genetic toxicity assays (in vitro and in vivo): Negative (milbemycin oxime)<br>Based on available data, the classification criteria are not met. |   |                                       |  |
| Carcinogenicity  |  | Not listed by IARC, NTP, ACGIH or OSHA.<br>Due to lack of data the classification is not possible.            |                                       |  |
| IARC Monographs. Overall                                   | Evaluation of  | of Carcinogenicity  |                                       |  |
| Not listed.  |  |   |                                       |  |
|  | ed Substanc  | es (29 CFR 1910.1001-1050)  |                                       |  |
| Not regulated.<br>US. National Toxicology Pi               | rogram (NTP)   | Report on Carcinogens   |                                       |  |
| Not listed.  | · • 9· · · · · · · /   |   |                                       |  |
| Reproductive toxicity                                      |  | identified in animal studies. (milbemycin o<br>available data, the classification criteria are                |                                       |  |
| Specific target organ toxicity -<br>single exposure        | No significant target organ toxicity reported. (milbemycin oxime)<br>Based on available data, the classification criteria are not met.                     |   |                                       |  |
| Specific target organ toxicity -<br>repeated exposure      | No significant target organ toxicity reported. (milbemycin oxime)<br>Based on available data, the classification criteria are not met.                     |   |                                       |  |
| Aspiration hazard  | Not an aspiration hazard.  |   |                                       |  |
| -  |  |   |                                       |  |
| 12. Ecological informatio                                  |  |   |                                       |  |
| Ecotoxicity  | Very toxic   | to aquatic life with long lasting effects.  |                                       |  |
| Components   |  | Species   | Test Results                          |  |
| MILBEMYCIN OXIME (CAS                                      | 129496-10-2)   |   |                                       |  |
| Aquatic<br>Acute   |  |   |                                       |  |
| Crustacea  | EC50   | Daphnia   | 0.011 mg/l, 48 hr (similar substance) |  |
|  |  |   | 0 mg/l, 48 hr (similar substance)     |  |
| Fish   | LC50   | Carp (Cyprinus carpio communis)   | 0.059 ppm, 48 hr                      |  |
| Chronic  |  |   |                                       |  |
| Crustacea  | NOEC   | Daphnia   | 0.0001 mg/l, 21 d (similar substance) |  |
| Persistence and degradability<br>Bioaccumulative potential |  | available on the degradability of any ingre   |                                       |  |

| Partition coefficient n-o<br>MILBEMYCIN OXIME | ctanol / water (log Kow) | 6.5, (at 20 °C, pH 7) |  |
|---|--------------------------|-----------------------|--|
|   |                          | 7, (at 20 °C, pH 7)   |  |
| Mobility in soil                              | No data available.       |                       |  |
| Other adverse effects                         | Not available.           |                       |  |
|   |                          |                       |  |

Material name: MilbeMite™

6750 Version #: 01 Issue date: 08-16-2017

#### 13. Disposal considerations

**Disposal instructions** 

Not available.

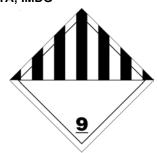
## 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

UN3082 **UN number** UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (MILBEMYCIN OXIME) Transport hazard class(es) 9 Class Subsidiary risk \_ 111 Packing group **Environmental hazards** Yes **ERG Code** 9L Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Other information Allowed with restrictions. Passenger and cargo aircraft Allowed with restrictions. Cargo aircraft only IMDG UN3082 **UN number** UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MILBEMYCIN OXIME) Transport hazard class(es) 9 Class Subsidiary risk \_ Packing group Ш **Environmental hazards** Marine pollutant Yes F-A, S-F EmS Special precautions for user Read safety instructions, SDS and emergency procedures before handling. Transport in bulk according to Not established. Not applicable. Annex II of MARPOL 73/78 and the IBC Code IATA; IMDG



Marine pollutant



## 15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

|  | Notification (40 CFR 707, Subpt. D)   |                        |
|--|---|------------------------|
| Not regulated.                             |   |                        |
| CERCLA Hazardous Substa                    | Ince List (40 CFR 302.4)  |                        |
| Not listed.<br>SARA 304 Emergency relea    | se notification   |                        |
| Not regulated.                             |   |                        |
| C C  | ed Substances (29 CFR 1910.1001-1050)   |                        |
| Not regulated.                             |   |                        |
|  | eauthorization Act of 1986 (SARA)   |                        |
| Hazard categories                          | Immediate Hazard - No   |                        |
| C C  | Delayed Hazard - No   |                        |
|  | Fire Hazard - No<br>Pressure Hazard - No  |                        |
|  | Reactivity Hazard - No  |                        |
| SARA 313 (TRI reporting)<br>Not regulated. | ···· , ··· ,  |                        |
| Not regulated.                             |   |                        |
| Other federal regulations                  |   |                        |
| · · · ·                                    | n 112 Hazardous Air Pollutants (HAPs) List  |                        |
| Not regulated.                             |   |                        |
| · · · ·                                    | 112(r) Accidental Release Prevention (40 CFR 68.130)  |                        |
| Not regulated.                             |   |                        |
| Safe Drinking Water Act<br>(SDWA)          | Not regulated.  |                        |
| US state regulations                       | California Safe Drinking Water and Toxic Enforcement Act of<br>is not known to contain any chemicals currently listed as ca                       |                        |
| International Inventories                  |   |                        |
| Country(s) or region                       | Inventory name  | On inventory (yes/no)* |
| Canada                                     | Domestic Substances List (DSL)  | No                     |
| Canada                                     | Non-Domestic Substances List (NDSL)   | No                     |
| United States & Puerto Rico                | Toxic Substances Control Act (TSCA) Inventory   | No                     |
|  | nents of this product comply with the inventory requirements administ<br>e components of the product are not listed or exempt from listing on the |                        |
| 16. Other information, inc                 | luding date of preparation or last revision   |                        |
| Issue date                                 | 08-16-2017  |                        |
| Version #                                  | 01  |                        |
|  | ••  |                        |

List of abbreviations TWA: Time Weighted Average

Disclaimer

As of the date of issuance, we are providing available information relevant to the handling of this material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS MATERIAL SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel. Nor is this safety data sheet intended to be a substitute for product literature which may accompany the finished product.

For additional information contact: Elanco Animal Health 0011+1-877-352-6261 0011+1-800-428-4441