

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER**

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| <b>Product name:</b>               | <b>NEXGARD Spectra</b>   |
| <b>Product code:</b>               | A011184  |
| <b>Recommended use:</b>            | For the treatment and prevention of ectoparasite infestations and worms in dogs.   |
| <b>Company details:</b>            | Boehringer Ingelheim Animal Health New Zealand Limited   |
| <b>Address:</b>                    | Level 3, Boehringer Ingelheim Building<br>2 Osterley Way<br>Manukau City<br>Auckland 2104<br>New Zealand                                   |
| <b>Telephone number:</b>           | Phone: +64 9 263 1400  |
| <b>Emergency telephone number:</b> | Boehringer Ingelheim Freephone: 0800 800 822<br>National Poisons Centre : 0800 764 766 (0800 POISON)<br>Fire Service, Ambulance : Dial 111 |
| <b>Date of issue:</b>              | 26 August 2015   |
| <b>Date of review:</b>             | 7 February 2020  |

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS**
**Chemical characterization:**
**Product components:**

| <b>Ingredients</b> | <b>CAS No.</b> | <b>% w/w</b> |
|--------------------|----------------|--------------|
| Afoxolaner         | 1093861-60-9   | <10%         |
| Milbemycin Oxime   | 129496-10-2    | <1%          |
| Other              | -              | To 100%      |

**SECTION 3: HAZARDS IDENTIFICATION**

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| <b>Hazard classifications:</b>             | 9.1A   |
| <b>Priority and secondary identifiers:</b> | WARNING KEEP OUT OF REACH OF CHILDREN<br>WARNING Dangerous to the environment<br>Toxic to aquatic life         |
| <b>Risk and safety phrases:</b>            | 9.1A Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. |

**SECTION 4: FIRST AID MEASURES**

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| <b>Necessary first aid measures:</b> | <p>For advice contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately.</p> <p><u>Ingestion:</u><br/>If swallowed, not anticipated to cause problems, however, if problems develop, seek immediate medical attention.</p> <p><u>Eyes:</u><br/>In case of contact or if eyes become irritated during administration, immediately flush eyes with plenty of water for at least 15 minutes. If ocular irritation persists, seek medical attention.</p> <p><u>Skin:</u><br/>In case of contact or if skin become irritated during administration, immediately wash skin with soap and water. Remove contaminated clothing and shoes and launder before reuse. If skin irritation develops and persists or recurs, seek medical attention.</p> <p><u>Inhalation:</u><br/><u>If lungs become irritated</u> or breathing is difficult during administration, move to fresh air and seek medical attention.</p> |
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|                                     |                                 |
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| <b>Workplace facilities:</b>        | No special facilities required. |
| <b>Symptoms and effects</b>         |                                 |
| <b>Notes for medical personnel:</b> |                                 |

### SECTION 5: FIRE FIGHTING MEASURES

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| <b>Type of hazard:</b>                              |   |
| <b>Fire hazard properties:</b>                      | Prevent accumulation of vapours. When heated to decomposition, may produce oxides of carbon and nitrogen.   |
| <b>Regulatory requirements:</b>                     |   |
| <b>Extinguishing media and methods:</b>             | Carbon dioxide, dry chemical extinguishers, foam, water fog or spray. Large fires with "alcohol"-type foam extinguishers. Use extinguishing media appropriate for surrounding materials |
| <b>Hazchem code:</b>                                | 2X  |
| <b>Recommended protective clothing and actions:</b> | Fire fighters should wear approved/certified positive pressure self-contained breathing apparatus and full protective equipment.  |

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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| <b>Personal precautions, protective equipment and emergency procedures:</b> | Evacuate unnecessary personnel and eliminate all sources of ignition. Follow protective measures provided under Personal Protection in Section 8 |
| <b>Environment precautions:</b>   | Avoid release to the environment.  |
| <b>Method/material for containment and cleaning up:</b>                     | For small spills, sweep up and place in properly labeled containers  |

### SECTION 7: HANDLING AND STORAGE

|                                       |  |
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| <b>Precautions for safe handling:</b> | Do not eat, drink, or smoke while using this ingredient. Keep container tightly closed when not in use. Provide for adequate ventilation. Avoid prolonged or repeated exposure. Do not get in eyes, on skin or clothing. Keep away from incompatible materials (see Section 10). |
| <b>Regulatory requirements:</b>       |  |
| <b>Handling practices:</b>            | No specific practices; see Safe Handling comments.   |
| <b>Approved handlers:</b>             | Not required.  |
| <b>Conditions for safe storage:</b>   | Store in a well-ventilated place. Keep cool. Store locked up.  |
| <b>Store site requirements:</b>       |  |
| <b>Packaging:</b>                     |  |

### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

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| <b>Workplace exposure standards:</b>             | Not set for this product.  |
| <b>Application in the workplace:</b>             | Provide emergency shower and eyewash facility in close proximity to use. Remove contaminated clothing and laundered before reuse or discard. |
| <b>Exposure standards outside the workplace:</b> | N/A.   |
| <b>Engineering controls:</b>                     | Use local exhaust ventilation appropriate for solid materials.   |
| <b>Personal protection:</b>                      | Eyes/Face - Wear safety glasses with side shields for normal handling.<br>Skin - Wear butyl rubber, neoprene, vinyl or other chemical        |

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|                    |   |
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|                    | resistant impervious gloves.<br>Respiratory - For normal use, ensure adequate exhaust ventilation.    |
| <b>References:</b> | N/A.<br><br>Do not eat, drink, or smoke while using this ingredient. Wash hands thoroughly after use. |

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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|--------------------------|---|
| <b>Formulation type:</b> | Solid chewable tablet   |
| <b>Appearance:</b>       | Mottled red to reddish brown solid (a rectangular-shaped chew ranging in size from 0.5-6.0 g) |

### SECTION 10: STABILITY AND REACTIVITY

|                                    |   |
|------------------------------------|---|
| <b>Stability of the substance:</b> | Stable under normal conditions of use and storage.  |
| <b>Conditions to avoid:</b>        | Unknown; DO NOT expose to heat, flames or extreme temperatures.   |
| <b>Material to avoid:</b>          | Unknown; DO NOT mix with other materials unless specifically instructed to do so under the guidance of a trained chemist.       |
| <b>Specific data:</b>              | N/A   |
| <b>Hazardous Decomposition:</b>    | When heated to decomposition may produce oxides of carbon and nitrogen as well as other uncharacterized decomposition products. |
| <b>Hazardous Polymerization:</b>   | Will not occur  |

### SECTION 11: TOXICOLOGICAL INFORMATION

|                        |                               |                 |  |
|------------------------|-------------------------------|-----------------|--|
| <b>Acute toxicity:</b> | <b>Parameter</b>              | <b>Result</b>   | <b>Comments</b>  |
|                        | <b>Oral LD50 (mg/kg)</b>      | ATE = 6237      | Classification of the mixture is based on the information/data of the ingredients and their corresponding concentration.<br>(64% of the mixture consist of ingredients of unknown oral toxicity) |
|                        | <b>Dermal LD50 (mg/kg)</b>    | ATE = 5134      | Classification of the mixture is based on the information/data of the ingredients and their corresponding concentration.<br>(40% of the mixture consist of ingredients of unknown oral toxicity) |
|                        | <b>Inhalation LC50 (mg/L)</b> | NE              | Due to the low vapor pressure of ingredients, the mixture does not pose a respiratory hazard   |
|                        | <b>Ocular Irritant</b>        | Non-irritating  | Classification of mixture is based on the information/data of the ingredients  |
|                        | <b>Dermal Irritant</b>        | Non-irritating  | Classification of mixture is based on the information/data of the ingredients  |
|                        | <b>Dermal Sensitizer</b>      | Non-sensitizing | Classification of mixture is based on the information/data of the ingredients  |

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| <b>Carcinogenicity:</b>                     | <p><b>IARC:</b> No ingredient of this product, which is present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p><b>ACGIH:</b> No ingredient of this product, which is present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.</p> <p><b>NTP:</b> No ingredient of this product, which is present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.</p> <p><b>OSHA:</b> No ingredient of this product, which is present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.</p> |
| <b>Reproductive toxicity:</b>               | No ingredient of this product, which is present at levels greater than or equal to 0.1%, is identified as a known or anticipated reproductive toxins.  |
| <b>Teratogenicity/Developmental Effects</b> | No ingredient of this product, which is present at levels greater than or equal to 0.1%, is identified as a known or anticipated teratogenic or developmental toxins   |

## SECTION 12: ENVIRONMENTAL INFORMATION

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| <b>Ecotoxicity:</b>                        | Based upon computer modeling, the LC <sub>50</sub> /EC <sub>50</sub> for afoxolaner ranged from 0.008 to 1.046 mg/L for freshwater and marine fish, invertebrates and plants. Based on computer modeling, the mixture is considered a Category 1 Acute Aquatic Hazard (GHS standards). However, due to limited quantities (i.e., packaging) the mixture is not considered an environmental hazard. |
| <b>Persistence and degradability:</b>      | Based upon computer modeling and physico-chemical characteristics of the ingredients in the mixture, the mixture is considered biodegradable in the environment.   |
| <b>Bioaccumulative potential:</b>          | Based on the K <sub>ow</sub> of the ingredients in the mixture, some of the ingredients have the potential for bioaccumulation. However, fugacity modeling and biodegradation testing suggest that the potential for bioaccumulation of those ingredients is low. Therefore, it is considered that the mixture will not accumulate in the environment.   |
| <b>Mobility in soil:</b>                   | Based on the K <sub>oc</sub> of the ingredients in the mixture and fugacity modeling, the mixture is not considered to have a high probability of mobility through the soil.   |
| <b>Results of PBT and vPvB Assessment:</b> | The ingredients in the mixture do not meet the classification criteria for Persistent, Bioaccumulative and Toxic (PBT) chemicals, or very Persistent and very Bioaccumulative (vPvB) chemicals.  |

## SECTION 13: DISPOSAL CONSIDERATIONS

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| <b>Disposal information :</b> | Dispose of all waste ingredient and containers in accordance with national, regional, state and local regulations. |
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## SECTION 14: TRANSPORT INFORMATION

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| <b>Relevant information:</b> | UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.<br>(Afoxolaner)<br>Class 9 PG III<br>Limited quantities: 5kg |
| <b>Other requirements:</b>   | N/A  |

**SECTION 15: REGULATORY INFORMATION****Regulatory status:**

Registered pursuant to the ACVM Act 1997, No. A011184  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

**HSNO and ACVM  
controls:**

Approved pursuant to the HSNO Act, Approval Code HSR 100757  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

Refer to Section 3

**List exposure limits:**

N/A

**SECTION 16: OTHER INFORMATION****Additional  
information:**

For product information visit the Boehringer Ingelheim website  
[www.boehringer-ingelheim.co.nz](http://www.boehringer-ingelheim.co.nz)

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