

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND SUPPLIER

<b>Product name:</b>	<b>NexGard (afoxolaner) Chewables</b>
<b>Product code:</b>	A011040
<b>Recommended use:</b>	For the treatment and prevention of ectoparasite infestations on dogs.
<b>Company details:</b>	Boehringer Ingelheim New Zealand Limited
<b>Address:</b>	Level 3, Boehringer Ingelheim Building 2 Osterley Way Manukau City Auckland 2104 New Zealand
<b>Telephone number:</b>	Phone: +64 9 263 1400
<b>Emergency telephone number:</b>	Boehringer Ingelheim Freephone: 0800 800 822 National Poisons Centre : 0800 764 766 (0800 POISON) Fire Service, Ambulance : Dial 111
<b>Date of issue:</b>	13 January 2014
<b>Date of review:</b>	7 February 2020

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical characterization:

### Product components:

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
Afoxolaner	1093861-60-9	<10%

## SECTION 3: HAZARDS IDENTIFICATION

<b>Hazard classifications:</b>	9.1A
<b>Priority and secondary identifiers:</b>	WARNING KEEP OUT OF REACH OF CHILDREN WARNING Dangerous to the environment 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

### Necessary first aid measures:

For advice contact the National Poisons Centre on 0800 POISON (0800 764 766), or a doctor immediately.

**Ingestion:** Do not induce vomiting. Wash the mouth with plenty of water. In case of vomiting, keep the head below the level of the hips. If the individual is lying down, keep him/her in lateral position to avoid aspiration of the gastric content. Seek immediate medical attention and take the product container or label with you.

**Eyes:** First check the victim for contact lenses and remove them if present. Wash exposed eyes with abundant water in room temperature for at least 15 minutes, lifting the eyelid while washing them. Seek medical attention and take the product container or label with you.

**Skin:** Take off contaminated clothes and shoes. Wash exposed skin with plenty of water and soap. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention and take the product container or label with you.

**Inhalation:** Take the victim to fresh air immediately. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth,

<p><b>Workplace facilities:</b></p> <p><b>Symptoms and effects</b></p> <p><b>Notes for medical personnel:</b></p>	<p>if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Seek immediate medical attention and take the product container or label with you.</p> <p>No special facilities required.</p> <p>The effects of the product in humans are still unknown. The product may cause nausea, vomiting and gastrointestinal irritation if ingested in large quantities. The adverse effects of human exposure to the product are not known.</p> <p>Apply symptomatic therapy; there is no specific antidote.</p>
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## SECTION 5: FIRE FIGHTING MEASURES

<p><b>Type of hazard:</b></p> <p><b>Fire hazard properties:</b></p> <p><b>Regulatory requirements:</b></p> <p><b>Extinguishing media and methods:</b></p> <p><b>Hazchem code:</b></p> <p><b>Recommended protective clothing and actions:</b></p>	<p>Non flammable, non combustible, non explosive.</p> <p>Fire may produce irritating and/or toxic gases of nitrogen oxides, chlorides, fluorides, carbon monoxide and carbon dioxide.</p> <p>Not applicable.</p> <p>Small fire: use dry chemical, carbon dioxide (CO<sub>2</sub>), water fog or spray. Large fire: use water spray, "alcohol" type foam extinguishers, water fog.</p> <p>2X</p> <p>Move containers from fire area if you can do it without risk. Dike fire control water for later disposal; do not scatter the material. Wear full protective clothing and positive pressure self-contained breathing apparatus. Structural firefighters' protective clothing provides limited protection in fire situations only; it is not effective in spill situations where direct contact with the substance is possible.</p>
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## SECTION 6: ACCIDENTAL RELEASE MEASURES

<p><b>Personal precautions, protective equipment and emergency procedures:</b></p> <p><b>Environment precautions:</b></p> <p><b>Method/material for containment and cleaning up:</b></p>	<p>Non-emergency personnel: use personal protective equipment (PPE). Avoid contact of the product with the skin, eyes and mucous membranes. Do not handle broken packing unless wearing personal protective equipment. Keep out of low areas, Stay upwind.</p> <p>Emergency personnel: use suitable PPE. Keep unauthorized personnel away. As an immediate precautionary measure, isolate spill or leak area in all directions for at least 25 metres.</p> <p>In case of spilling or leaking, contain the spill immediately. Do not allow spill to enter in sewers or watercourses. If product enters in the watercourses. Immediately interrupt the human or animal use and contact local environmental agency or the company emergency centre, since the measures to be taken depend on a variety of factors such as the accident proportion, the watercourse characteristics and the amount of spilled product.</p> <p>Use PPE. Isolate and signalize the area. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if you can do it without risk.</p> <p>Paved areas: collect the spilled material with a shovel avoiding dust formation, and place it in specially marked, tightly closed containers. Spilled product cannot be used further and must be disposed of.</p> <p>Soil: remove contaminated soil until achieving uncontaminated soil and conduct in accordance with the information above.</p>
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### SECTION 7: HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Use PPE. Do not handle product without the recommended PPE or if they are damaged. Avoid the contact of the product with skin, eyes and mucous membranes. When opening the packaging, do it avoiding dust formation. Handle the product in a ventilated area away from sources of ignition or heat. Ensure good ventilation in work area. The usual precautions for the handling of chemicals must be observed. Observe the expiration date. Do not reuse the empty package. Do not wash package in lakes, rivers and watercourses. Do not eat, drink or smoke whilst handling the product. Wash hands and exposed areas after handling the product, particularly before meals. After workday, remove protective clothing and shower.
<b>Regulatory requirements:</b>	Signage and Emergency Plan required where quantities greater than 100 kg are present.
<b>Handling practices:</b>	No specific practices; see Safe Handling comments.
<b>Approved handlers:</b>	Not required.
<b>Conditions for safe storage:</b>	Store below 30 °C.
<b>Store site requirements:</b>	Store the product in the original package, tightly closed, protected from sunlight. Store away from food, animal feed, beverage and incompatible materials. Lock the place, preventing the access of unauthorized people, mainly children. There must always be adequate packing available to cover and protect broken or cracked packages or to collect leaked products. Disposal of the product according to local legislation.
<b>Packaging:</b>	Blister packs.

### SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Workplace exposure standards:</b>	Not set for this product.
<b>Application in the workplace:</b>	Handle only sealed packages. Ensure adequate ventilation.
<b>Exposure standards outside the workplace:</b>	N/A.
<b>Engineering controls:</b>	Provide local ventilation at workplace. Provide exhaust ventilation where process requires. Provide emergency shower and eye washer near workplace near the work area.
<b>Personal protection:</b>	Eye protection: Wear safety glasses for chemicals with side shields for normal handling. Skin: Wear butyl rubber, neoprene, vinyl or other chemical resistant impervious gloves and protective clothes. Respiratory: Provide exhaust ventilation and wear protective mask where processes require.
<b>References:</b>	N/A

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Formulation type:</b>	Solid chewable tablet
<b>Appearance:</b>	Mottled red to reddish brown solid (a circular or rectangular-shaped chew ranging in size from 0.5-6.0 g)
<b>Melting point/freezing point:</b>	~111-150 °C
<b>Flammability (solid, gas):</b>	Non-flammable
<b>Vapour Pressure:</b>	afoxolaner $7 \times 10^{-16}$
<b>Solubility in water:</b>	afoxolaner $3.35 \times 10^{-7}$ kg/m <sup>3</sup>

<b>Partition coefficient:</b>	afoxolaner n-octanol/water: Log $K_{ow}$ : 5.15
<b>Auto-ignition temp:</b>	365-440 °C

### SECTION 10: STABILITY AND REACTIVITY

<b>Stability of the substance:</b>	Stable under normal conditions of use and storage.
<b>Conditions to avoid:</b>	Sources of ignition and heat and contact with incompatible materials.
<b>Material to avoid:</b>	No specific materials to avoid.
<b>Specific data:</b>	N/A

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	LD <sub>50</sub> oral: 6075 mg/kg b.w. (estimated). LD <sub>50</sub> dermal: 9161 mg/kg b.w. (estimated).
<b>Skin corrosion/irritation:</b>	The ingredients are non-irritating to skin.
<b>Serious eye damage/irritation:</b>	The ingredients are non-irritating to eyes.
<b>Respiratory or skin sensitization:</b>	The ingredients do not cause skin sensitization.
<b>Germ cell mutagenicity:</b>	None of the ingredients in the mixture are considered to be mutagenic.
<b>Carcinogenicity:</b>	None of the ingredients in the mixture are considered to be carcinogenic.
<b>Reproductive toxicity:</b>	The ingredients in the mixture are considered to show neither reproductive toxicity, teratogenicity or development effects.
<b>Specific target organ toxicity – single exposure:</b>	There are no data in the literature regarding specific target organ toxicity after single exposure.
<b>Specific target organ toxicity – repeated exposure:</b>	There are no data in the literature regarding specific target organ toxicity after repeated exposure.
<b>Aspiration hazard:</b>	There are no data in the literature regarding aspiration hazard of the ingredients of this product.

### SECTION 12: ENVIRONMENTAL INFORMATION

<b>Ecotoxicity:</b>	<u>Afoxolaner (computer model)</u> : LC <sub>50</sub> /EC <sub>50</sub> : 0.008 – 1.046 mg/L (freshwater and marine fish, invertebrates and plants).
<b>Persistence and degradability:</b>	Based on computer modeling and physical-chemical characteristics of the ingredients in the mixture, the mixture is considered biodegradable in the environment.
<b>Bioaccumulative potential:</b>	Based on the $K_{ow}$ 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 $K_{oc}$ 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>Other adverse effects:</b>	It is not available.



### SECTION 13: DISPOSAL CONSIDERATIONS

**Disposal information :** Do not discard in sewers or watercourses. Disposal should be in accordance with local or national legislation.  
Do not use empty package.

### SECTION 14: TRANSPORT INFORMATION

**Relevant information:** UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Afoxolaner)  
Class 9 PG III  
Limited quantities: 5 kg

**Other requirements:** N/A

### SECTION 15: REGULATORY INFORMATION

**Regulatory status:** Registered pursuant to the ACVM Act 1997, No. A011040  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

Approved pursuant to the HSNO Act, Approval Code HSR100757  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

**HSNO and ACVM controls:** 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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