

# Safety Data Sheet

Safety Data Sheet  
Date / Revised: 15.11.2015  
Product: **VESPEX**

Version: 1.0

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**VESPEX®**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: insecticide

### 1.3 Details of the supplier of the safety data sheet

Company:

Merchento Ltd  
PO Box 2256  
Stoke  
Nelson 7041

Telephone: (03) 539 0508

### 1.4 Emergency telephone number

**National Poisons Centre: 0800 764 766**

## SECTION 2: Hazards Identification

### 2.1 Hazard Classification

9.1B, 9.4B



Priority Identifier: ECOTOXIC

Secondary Identifiers:

9.1B TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.  
9.4B TOXIC TO TERRESTRIAL INVERTEBRATES.

Hazard determining component(s) for labelling: Fipronil

## SECTION 3: Composition/Information on Ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

#### Appearance

Green moist paste

#### Chemical nature

Ready-to-use insecticide bait.

#### Hazardous ingredients

Fipronil  
Content (W/W): 0.1 %  
CAS Number: 120068-37-3  
EC-Number: 424-610-5  
INDEX-Number: 608-055-00-8

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## SECTION 4: First-Aid Measures

### 4.1 Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Immediately wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth immediately and then drink plenty of water.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions).

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## SECTION 5: Fire-Fighting Measures

### 5.1 Extinguishing media

Suitable extinguishing media:  
Water spray, carbon dioxide, foam, dry powder.

### 5.2 Special hazards arising from the substance or mixture

Carbon monoxide, Carbon dioxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, sulfur oxides, organochloric compounds.

The substances/groups of substances mentioned can be released in case of fire.

### 5.3 Advice for fire-fighters

Special protective equipment:  
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## SECTION 6: Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

### 6.2 Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

### 6.3 Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder).

For large amounts: Contain spillage.

Collect waste in suitable containers, labeled for disposal. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Absorb and collect washings and place in same sealable container. Dispose of the waste safely at a suitable landfill.

### 6.4 Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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## SECTION 7: Handling and Storage

### 7.1 Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Remove contaminated clothing and protective equipment before entering eating areas.

Refer to the product label for handling precautions and directions for use.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

### 7.2 Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds. Further information on storage conditions: Store in freezer in original container, tightly closed. Away from foodstuffs.

Storage stability: Stable

Storage duration: 36 Months

Protect from temperatures above: 0 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

<b>AGGREGATE STORAGE VOLUME THRESHOLDS:</b> When stored with substances of the same hazard the aggregate quantity must be considered. For full details refer to the current standard NZS8409 Management of Agrichemicals or the HSNO Regulations.						
Location Certificate*:	Hazardous Atmosphere Zone*:	Fire Extinguishers:	Signage [Hazard Class & Emergency Action]:	Emergency Information:	Emergency Response Plan:	Secondary Containment:
NA	NA	NA	1000 kg	5 kg	1000 kg	1000 kg
* Note: Farms $\geq$ 4 ha are exempt but with controls						
<b>DO NOT STORE OR LOAD WITH:</b> Class 1 Explosive			<b>SEGREGATE FROM:</b> Foodstuffs and Food Containers			
<b>Segregation:</b> In store separate by at least 5 metres, on transport separate by at least 3 metres, in both cases horizontally. On vehicles a segregation device may be used: Check the Land Transport Rule Dangerous Goods, Rule 45001 for additional information. Sea transport may require additional segregation. Refer to NZS5433 Sea Segregation for details.						

Note: Storage, application and record keeping must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZS8409

### 7.3 Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

## SECTION 8: Exposure Controls/Personal Protection

### 8.1 Control parameters

Components with workplace control parameters (NZ)

No occupational exposure limits known.

## 8.2 Exposure controls

### Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

### General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

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## SERCTION 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Form:	bait paste
Colour:	green
Odour:	meaty
Odour threshold:	not determined
pH:	not determined
Boiling point:	not determined
Flash point:	non-flammable
Evaporation rate:	not applicable
Flammability:	not determined
Lower explosion limit:	not determined
Upper explosion limit:	not determined
Ignition temperature:	not determined
Vapour pressure:	not applicable
Density:	not determined
Relative vapour density (air):	not determined
Solubility in water:	not determined
Partitioning coefficient n-octanol/water (log Kow):	not applicable
Thermal decomposition:	not determined
Viscosity, dynamic:	not determined
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating

## **9.2 Other information**

Other Information:

The product has not been tested. The statement has been derived from products of a similar structure or composition.

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## **SECTION 10: Stability and Reactivity**

### **10.1 Reactivity**

No hazardous reactions if stored and handled as prescribed/indicated.

### **10.2 Chemical stability**

The product is stable if stored and handled as prescribed/indicated.

### **10.3 Possibility of hazardous reactions**

No hazardous reactions if stored and handled as prescribed/indicated.

### **10.4 Conditions to avoid**

See SDS section 7 - Handling and storage.

### **10.5 Incompatible materials**

Substances to avoid:

Strong acids, strong bases, strong oxidizing agents

### **10.6 Hazardous decomposition products**

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

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## **SECTION 11: Toxicological Information**

### **11.1 Information on toxicological effects**

#### Acute toxicity

Assessment of acute toxicity:

Of low toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

Experimental/calculated data:

LD50 rat (oral): > 2,000 mg/kg

LD50 rat (dermal): > 2,000 mg/kg

The product has not been tested. The statements have been derived from the properties of the individual components.

*Information on: Fipronil (ISO); 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile*

*Experimental/calculated data:*

*LC50 rat (by inhalation): 0.36 mg/l 4 h (OECD Guideline 403). Tested as dust aerosol.*

#### Irritation

Assessment of irritating effects:

Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from products of a similar structure or composition.

*Information on: Fipronil*

*Experimental/calculated data:*

*Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)*

*Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)*

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

*Information on: Fipronil*

*Experimental/calculated data:*

*Guinea pig maximization test guinea pig: Non-sensitizing. (OECD Guideline 406)*

*Buehler test guinea pig: Non-sensitizing. (OECD Guideline 406)*

Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

*Information on: Fipronil*

*Assessment of carcinogenicity:*

*In long-term studies in rats the substance induced thyroid tumours. The effect is caused by an animal specific mechanism that has no human counterpart. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.*

Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Fipronil*

*Assessment of repeated dose toxicity:*

*Causes mortality and signs of neurotoxicity through prolonged or repeated exposure.*

Other relevant toxicity information

Misuse can be harmful to health.

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## SECTION 12: Ecological Information

### 12.1 Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

*Information on: Fipronil*

*Toxicity to fish:*

*LC50 (96 h) 0.0852 mg/l, Lepomis macrochirus*

*Aquatic invertebrates:*

*LC50 (48 h) 0.19 mg/l, Daphnia magna*

*LC50 (96 h) 0.00014 mg/l, Mysisidopsis bahia*

*Aquatic plants:*

*EC50 (96 h) 0.068 mg/l (growth rate), Scenedesmus subspicatus*

*EC50 (7 d) > 0.16 mg/l (growth rate), Lemna gibba*

*Chronic toxicity to fish:*

*No observed effect concentration 0.0029 mg/l, Cyprinodon variegatus*

*Chronic toxicity to aquatic invertebrates:*

*No observed effect concentration (21 d), 0.0098 mg/l, Daphnia magna*

*No observed effect concentration, 0.000008 mg/l, Mysisidopsis bahia*

*Microorganisms/Effect on activated sludge:*

*No observed effect concentration > 1,000 mg/l*

*No effects at the highest test concentration.*

*Terrestrial plants:*

*No effects at the highest test concentration.*

### 12.2 Persistence and degradability

Assessment biodegradation and elimination (H<sub>2</sub>O):

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Fipronil*

*Assessment biodegradation and elimination (H<sub>2</sub>O):*

*Not readily biodegradable (by OECD criteria).*

### 12.3 Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

*Information on: Fipronil*

*Bioaccumulation potential:*

*Bioconcentration factor: 321, Lepomis macrochirus*

*Accumulation in organisms is not to be expected.*

### 12.4 Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.



*Information on: Fipronil*

*Assessment transport between environmental compartments:*

*Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.*

### 12.5 Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

### 12.6 Other adverse effects

*Information on: Fipronil*

*The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.*

### 12.7 Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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## SECTION 13: Disposal Considerations

### 13.1 Waste treatment methods

Container:

Dispose of containers and old bait in a suitable landfill. DO NOT contaminate any water supply with the bait or empty containers.

Product:

Dispose of this product only by using according to the label or at a suitable landfill. DO NOT burn.

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## SECTION 14: Transport Information

Commercial transport:

Classified as Dangerous Goods for Land/rail (ADR/RID), sea (IMDG/GGVSee) and air transport (ICAO/IATA):

Transport hazard class(es):	9
Packing Group	III
UN Number	3077
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains FIPRONIL 0.1%)
Hazard label:	9, EHSM
Marine Pollutant:	YES
HAZCHEM:	2[Z]

## SECTION 15: Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

For the user of this biocidal product applies: 'To avoid risks to man and the environment, comply with the instructions for use.'

### 15.2 Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

#### NZ Regulations

Approved pursuant to the HSNO Act 1996, Code HSR002434.  
See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

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## SECTION 16: Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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