

## SAFETY DATA SHEET

## **Bayvarol Strips**

## **Section 1. Identification**

Product identifier : Bayvarol Strips
Product code : 122000001007

Other means of identification

BAYVAROL TIRAS; 6247970; 80625759; 81026506; 81381101; 81436045; 81456887; 81485658; 81548978; 81581266; 81581614; 81897573; 82057006; 82057065; 82057073; 82177613; 82211942; 82211977; 82482564; 82482718; 83917165; 85220381; 85255231; 85632450; 85643916; 85682326; 85682350; 85976346; 85976354; 86030357; 86030381; 86030896; 86031620; 86031655; 86031698; 86065703; 86065762; 86065770; 86084953; 86085046; 86085097; 86085127; 86085135; 86085143; 86175444; 86412829; 86893452; 86907992; 86924935; 87203174; 87224775; 87398234; 87401537; 90198563; 90198564; 90200509; 90202037; 90203782; 90204322; 90205145; 90206073; 90206589;

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

90207072; 90209343; 90210738

Identified uses : Veterinary product. Pesticide.

Uses advised against : None known.

Company Name : Elanco New Zealand

106 Wiri Station Road, Manukau, Auckland 2140

**Telephone number** : +64 0800 352 626

0800 446 121 (Adverse Events Local Number)

**Emergency telephone** 

number

: CHEMTREC International: 00 1 703-527-3887 (24 hours)

CHEMTREC: +64 9-801 0034 (Local) CHEMTREC: 0800 425 459 (Freephone)

Email : elanco sds@elancoah.com

## Section 2. Hazards identification

**HSNO Approval Number** : HSR000756 **HSNO Group Standard** : Not available.

**HSNO Classification**: DESIGNED FOR BIOCIDAL ACTION

This material is classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

This material is not classified as DANGEROUS GOODS according to criteria in New Zealand Standard 5433:2020 Transport of Dangerous Goods on Land.

**GHS label elements** 

Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.
Other hazards which do not : None known.

result in classification

Product name: NZ : ENGLISH

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
Flumethrin	≤0.1	69770-45-2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

## **Description of necessary first aid measures**

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Ingestion**: Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting

unless directed to do so by medical personnel.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

occurs.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Inhalation: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Eye contact: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.Skin: No specific data.Eyes: No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

**Specific treatments**: No specific treatment.

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

#### Extinguishing media

**Suitable**: Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Specific hazards arising from the chemical

: No specific fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

Hazchem code : Not available.

Special precautions for fire-

fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without

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suitable training.

Product name: NZ: ENGLISH

## Section 5. Firefighting measures

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders:

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## Methods and material for containment and cleaning up

**Small spill** 

: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

#### **Protective measures**

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
None.	

#### **Biological exposure indices**

No exposure indices known.

Product name: NZ: ENGLISH

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## Section 8. Exposure controls/personal protection

Appropriate engineering controls

**Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

## **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

## <u>Appearance</u>

Physical state : Solid.
Colour : White.

Odour : Not available.

Odour threshold : Not available.

pH : Not available.

Melting point/freezing point : 120°C (248°F)

Boiling point, initial boiling : Not available.

Flash point : Not applicable.
Evaporation rate : Not available.
Flammability : Not available.

Lower and upper explosion limit/flammability limit

point, and boiling range

: Not applicable.

Vapour pressure : Not available.

Product name: NZ: ENGLISH

## Section 9. Physical and chemical properties and safety characteristics

Relative vapour density : Not applicable.

Relative density : Not available.

Solubility(ies) : Media

MediaResultcold waterNot solublehot waterNot soluble

Solubility in water : Not available.

Miscible with water : No.

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature : Not applicable.

Decomposition temperature : Not available.

Viscosity : Not applicable.

Flow time (ISO 2431) : Not available.

**Particle characteristics** 

Median particle size : Not available.

## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : No specific data.

Incompatible materials : No specific data.

**Hazardous decomposition** 

products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

## **Section 11. Toxicological information**

## Information on likely routes of exposure

Inhalation: No known significant effects or critical hazards.Ingestion: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.Eye contact: No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No specific data.Ingestion: No specific data.Skin contact: No specific data.Eye contact: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity

Product name: NZ: ENGLISH

## **Section 11. Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
Flumethrin	LC50 Inhalation Dusts and mists	Rat	0.572 mg/l	4 hours
	LD50 Dermal	Rat	1436 mg/kg	-
	LD50 Oral	Rat	175 mg/kg	-

## **Irritation/Corrosion**

Not available.

#### **Sensitisation**

3	Route of exposure	Species	Result
Flumethrin	skin	Guinea pig	Not sensitizing

#### Potential chronic health effects

**General** : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Skin contact Eye contact** : No known significant effects or critical hazards. Carcinogenicity : No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. **Teratogenicity** : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Developmental effects Fertility effects** : No known significant effects or critical hazards.

Chronic toxicity

Not available.

## **Carcinogenicity**

Not available.

#### Mutagenicity

Not available.

#### **Teratogenicity**

Not available.

## **Reproductive toxicity**

Not available.

## **Specific target organ toxicity (single exposure)**

Product/ingredient name	Category	Route of exposure	Target organs
Flumethrin	Category 3	-	Respiratory tract irritation

## Specific target organ toxicity (repeated exposure)

Product/ingredient name	,	Route of exposure	Target organs
Flumethrin	Category 1	-	-

### **Aspiration hazard**

Not available.

## **Numerical measures of toxicity**

**Acute toxicity estimates** 

Product name: NZ : ENGLISH

## **Section 11. Toxicological information**

•	( 3	Dermal (mg/kg)	(gases)	(mg/l)	Inhalation (dusts and mists) (mg/l)
Flumethrin	5	1436	N/A	N/A	0.572

## **Section 12. Ecological information**

**Ecotoxicity** 

: No known significant effects or critical hazards.

## **Aquatic and terrestrial toxicity**

Product/ingredient name	Result	Species	Exposure
	EC50 0.0027 mg/l	Daphnia	48 hours
	IC50 0.59 mg/l	Algae	72 hours
	Acute LC50 0.17 mg/l	Fish - Oncorhynchus mykiss	96 hours

#### Persistence/degradability

Product/ingredient name	Test	Result		Dose	Inoculum
Flumethrin	-	0 % - Not readily - 28 days		-	-
Product/ingredient name	Aquatic half-life		Photolysis	<b>S</b>	Biodegradability
Flumethrin			-		Not readily

#### **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

## **Disposal methods**

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **Section 14. Transport information**

	New Zealand - Land - road/ railway	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-

Product name: NZ: ENGLISH

# Section 14. Transport information Packing group - - - Environmental hazards No. No. No.

#### **Additional information**

IMDG : Remarks Article.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according

to IMO instruments

: Not available.

## Section 15. Regulatory information

**HSNO Approval Number** : HSR000756 **HSNO Group Standard** : Not available.

**HSNO Classification**: DESIGNED FOR BIOCIDAL ACTION

**ACVM No.** : P005683

**Inventory list** 

**New Zealand** : All components are listed or exempted.

: 6/20/2023

## Section 16. Other information

## **History**

Date of issue/Date of

revision

Date of previous issue : No previous validation

Version : 0.01

Key to abbreviations

0.01

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

ADG = Australian Dangerous Goods

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

SGG = Segregation Group UN = United Nations

References : Not available.

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

Version: 0.01

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 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.

Product name: NZ: ENGLISH

## **Section 16. Other information**

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

Product name: NZ: ENGLISH