



Virbac New Zealand Limited

## SAFETY DATA SHEET

According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

### Section 1. Identification of the material and the supplier

Product: **PetScience 12 month Flea Bomb**  
 Product Use: Household insecticidal flea bomb  
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Virbac New Zealand Limited**  
 Address: 26 – 30 Maui Street  
 Pukete, Hamilton

Telephone: +64 7 849 6782  
 Customer Service Toll no: 0800 VIRBAC (0800 847 222) (Mon-Fri 8:30am to 4:30pm)  
**Emergency No: 0800 764 766 (National Poison Centre)**

Date of SDS Preparation: 9 March 2023

### Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020.

**EPA Approval No: HSR000255**

#### Pictograms



Signal Word: **Danger**

| GHS Classification and Category                           | Hazard Code | Hazard Statement   |
|---|-------------|--|
| Aerosol Cat. 1  | H222        | Extremely flammable aerosol.   |
| Aerosol   | H229        | Pressurised container: may burst if heated.                                |
| Eye irritation Cat. 2                                     | H319        | Causes serious eye irritation.   |
| Respiratory sensitisation Cat. 1                          | H334        | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin sensitisation Cat. 1                                 | H317        | May cause an allergic skin reaction.                                       |
| Specific target organ toxicity – repeated exposure Cat. 2 | H373        | May cause damage to organs through prolonged or repeated exposure.         |
| Hazardous to the aquatic environment acute/chronic Cat. 1 | H400/H410   | Very toxic to aquatic life with long lasting effects.                      |
| Hazardous to terrestrial invertebrates                    | H441        | Hazardous to terrestrial invertebrates                                     |

#### Prevention Code | Prevention Statement

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Tel: 64 7 849 6782 <https://nz.virbac.com>

|      |  |
|------|--|
| P102 | Keep out of reach of children.   |
| P103 | Read label before use.   |
| P210 | Keep away from heat, sparks, open flames or hot surfaces. No smoking.  |
| P211 | Do not spray on an open flame or other ignition source.                |
| P251 | Pressurized container: Do not pierce or burn, even after use.          |
| P260 | Do not breathe dust, fumes, gas, mist, vapours or spray.               |
| P264 | Wash hands thoroughly after handling.                                  |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment.                                      |
| P280 | Wear protective clothing as detailed in Section 8.                     |
| P285 | In case of inadequate ventilation wear respiratory protection.         |

| <b>Response Code</b> | <b>Response Statement</b>  |
|----------------------|--|
| P101                 | If medical advice is needed, have product container or label at hand.  |
| P314                 | Get medical advice/attention if you feel unwell.   |
| P363                 | Wash contaminated clothing before reuse.   |
| P391                 | Collect spillage.  |
| P302 + P352          | IF ON SKIN: Wash with plenty of soap and water.  |
| P304 + P341          | IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.             |
| P305 + P351+P338     | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333 + P313          | If skin irritation or rash occurs: Get medical advice/attention.   |
| P337 + P313          | If eye irritation persists: Get medical advice/attention.  |
| P342 + P311          | If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  |

| <b>Storage Code</b> | <b>Storage Statement</b>  |
|---------------------|---|
| P410 + P412         | Protect from sunlight. Do not expose to temperatures exceeding 50 °C. |

| <b>Disposal Code</b> | <b>Disposal Statement</b>                                |
|----------------------|--|
| P501                 | Dispose of according to Local Regulations or Authorities |

### **Section 3. Composition / Information on Hazardous Ingredients**

| <b>Ingredients</b> | <b>Wt%</b> | <b>CAS NUMBER.</b> |
|--------------------|------------|--------------------|
| Permethrin         | 1.6        | 52645-53-1         |
| Pyriproxyfen       | 1          | 95737-68-1         |
| Piperonyl butoxide | 3.3        | 51-03-6            |
| Hydrocarbon P80    | 75         | N/A                |

### **Section 4. First Aid Measures**

Routes of Exposure:

|              |  |
|--------------|--|
| If in Eyes   | Rinse eyes for several minutes. If irritation occurs and persists, seek medical advice.  |
| If on Skin   | Remove contaminated clothing and wash before reuse. Wash skin with soap and water. If skin irritation or rash occurs: Get medical advice/attention.  |
| If Swallowed | Rinse mouth and give plenty of water to drink. Do not give anything to the mouth of an unconscious person. Contact a doctor or call the National Poisons Centre on 0800 POISON (0800 764 766). |
| If Inhaled   | Remove the person from affected area to fresh air area. If any trouble breathing, get immediate medical attention. If irritation or symptoms persist, consult a doctor.                        |

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

Symptoms: Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.  
May cause damage to organs through prolonged or repeated exposure.

**Notes to Doctor:** No specific antidote is available. If poisoning is suspected apply symptomatic treatment.

## Section 5. Fire Fighting Measures

|   |  |
|---|--|
| <b>Hazard Type</b>  | Extremely Flammable Aerosol  |
| <b>Hazards from products</b>  | May be violently or explosively reactive. In Fire: Carbon monoxide, carbon dioxide, hydrogen |
| <b>Suitable Extinguishing media</b>                                 | Water spray or fog / foam / dry chemical powder / carbon dioxide.                            |
| <b>Precautions for firefighters and special protective clothing</b> | Breathing apparatus and gas tight chemical resistant suit.                                   |
| <b>HAZCHEM CODE</b>   | <b>2YE</b>   |

## Section 6. Accidental Release Measures

Personnel involved in clean-up should wear appropriate personal protective equipment to minimize exposure as detailed in Section 8. Non-essential personnel should be evacuated from the affected area.

In the event of a spill, prevent spillage from entering drains or watercourses.

If possible, contain the spill. Place inert absorbent such as vermiculite, sand or dirt onto material.

Use clean, non-sparking tools to collect the material and place into a suitable labelled container. Dispose of in compliance with local and/or national regulations as per Section 13.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read label before use.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Do not spray on an open flame or other ignition source.
- Pressurized container: Do not pierce or burn, even after use.
- Do not breathe dust, fumes, gas, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- In case of inadequate ventilation wear respiratory protection.

### Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
- Store in tightly closed original container in a cool, dry well-ventilated area out of direct sunlight.
- Store away from foodstuffs, children and animals.

## Section 8 Exposure Controls / Personal Protection

Product Name: **PetScience 12 month Flea Bomb**  
Date of SDS: 9 March 2023

SDS Prepared by: Virbac NZ Limited  
Tel: 64 7 849 6782 <https://nz.virbac.com>

## WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

| Substance | TWA |                   | STEL |                   |
|-----------|-----|-------------------|------|-------------------|
|           | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2020 12<sup>TH</sup> EDITION.

### Engineering Controls

Use dust extraction systems in the manufacture, handling, storage, and clean up so that airborne dust is minimized. Do not allow the dust to build up on walls, roof, or machinery.

### Personal Protection Equipment



|                    |  |
|--------------------|--|
| <b>Eyes</b>        | When handling in bulk wear suitable safety glasses.                              |
| <b>Skin</b>        | When handling in bulk wear suitable protective gloves and clothing.              |
| <b>Respiratory</b> | Not normally required. Wear respiratory protection in areas of poor ventilation. |
| <b>Hygiene</b>     | Wash hands thoroughly with soap and water after handling.                        |

## Section 9 Physical and Chemical Properties

|   |   |
|---|---|
| <b>Appearance</b>                       | Aerosol can with dry distinct odour spray |
| <b>Odour</b>                            | Not available                             |
| <b>Odour Threshold</b>                  | Not available                             |
| <b>pH</b>                               | Not available                             |
| <b>Boiling Point</b>                    | Not available                             |
| <b>Melting Point</b>                    | Not available                             |
| <b>Freezing Point</b>                   | Not available                             |
| <b>Flash Point</b>                      | Not available                             |
| <b>Flammability</b>                     | Flammable                                 |
| <b>Combustibility</b>                   | Not available                             |
| <b>Upper and Lower Explosive Limits</b> | Not available                             |
| <b>Vapour Pressure</b>                  | 400 – 500 Kpa at 20°C                     |
| <b>Vapour Density</b>                   | Not available                             |
| <b>Specific Gravity</b>                 | Not available                             |
| <b>Water Solubility</b>                 | Miscible                                  |
| <b>Partition Coefficient:</b>           | Not available                             |
| <b>Auto-ignition Temperature</b>        | Not available                             |
| <b>Decomposition Temperature</b>        | Not available                             |
| <b>Kinematic Viscosity</b>              | Not available                             |
| <b>Particle Characteristics</b>         | Not available                             |

## Section 10. Stability and Reactivity

|                                 |  |
|---------------------------------|--|
| <b>Stability of Substance</b>   | Stable under normal conditions of use. |
| <b>Possibility of hazardous</b> | No data available.                     |

|   |  |
|---|--|
| <b>reactions</b>                        |  |
| <b>Conditions to Avoid</b>              | Moisture and excessive heat                        |
| <b>Incompatible Materials</b>           | No data available.                                 |
| <b>Hazardous Decomposition Products</b> | In Fire: Carbon monoxide, carbon dioxide, hydrogen |

## Section 11 Toxicological Information

### Acute Effects:

|                   |  |
|-------------------|--|
| <b>Swallowed</b>  | Not applicable.  |
| <b>Dermal</b>     | Not applicable.  |
| <b>Inhalation</b> | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| <b>Eye</b>        | Causes serious eye irritation.   |
| <b>Skin</b>       | May cause an allergic skin reaction.                                       |

### Chronic Effects:

|                               |  |
|-------------------------------|--|
| <b>Carcinogenicity</b>        | Not applicable.  |
| <b>Reproductive Toxicity</b>  | Not applicable.  |
| <b>Germ Cell Mutagenicity</b> | Not applicable.  |
| <b>Aspiration</b>             | Not applicable.  |
| <b>STOT/SE</b>                | Not applicable.  |
| <b>STOT/RE</b>                | May cause damage to organs through prolonged or repeated exposure. |

## Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects  
Hazardous to terrestrial invertebrates

Acute toxicity – all values  $\leq$  1mg/L

96-hour LC<sub>50</sub> (for fish)

48-hour EC<sub>50</sub> (for crustacean)

72- or 96-hour ErC<sub>50</sub>(for algae or other aquatic plants)

This class may be subdivided for some regulatory systems to include a lower band at L $\leq$ EC<sub>50</sub>  $\leq$  0.1mg/L

Reference from [ User Guide to the HSNO Thresholds and Classifications]

|                                      |                   |
|--------------------------------------|-------------------|
| <b>Product:</b>                      |                   |
| <b>Persistence and degradability</b> | No data available |
| <b>Bioaccumulation</b>               | No data available |
| <b>Mobility in Soil</b>              | No data available |
| <b>Other adverse effects</b>         | No data available |

### Potential environmental interactions:

The following information refers to Permethrin:

Permethrin is considered highly toxic to fish, with 96-h LC<sub>50</sub> values ranging from 0.62  $\mu$ g/litre for larval rainbow trout to 314  $\mu$ g/litre for adult rainbow trout.\*

Permethrin is highly toxic for honey bees. The topical LD<sub>50</sub> is 0.11 $\mu$ g/bee.\*

Permethrin has very low toxicity to birds when given orally or fed in the diet.

The LD<sub>50</sub> is > 3000 mg/kg body weight for acute single oral dosage and for dietary exposure it is >5000 mg/kg diet.\*

Permethrin has a moderate rate of degradation in soil with a half-life of 28 days or less. \*

Permethrin deposited on plants degrades with a half-life of approximately 10 days.\*

In general, the degradative processes which occur in the environment lead to less toxic products.\*

\* Reference from [INCHEM]

The product must not be allowed to run into drains or waterways.

### Section 13. Disposal Considerations

#### Disposal Method:

Ensure container is completely empty before disposal. Dispose of containers at local authority landfill that does not burn its refuse. DO NOT burn empty containers. Avoid contamination of any water supply with chemical or empty container.

**Precautions or methods to avoid:** Toxic to fish. Do not contaminate dams, rivers, streams or other waterways with product or empty container.

### Section 14 Transport Information

**This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012**



#### Road, Rail, Sea and Air Transport

|                             |          |
|-----------------------------|----------|
| <b>UN No</b>                | 1950     |
| <b>Class - Primary</b>      | 2.1      |
| <b>Proper Shipping Name</b> | AEROSOLS |
| <b>Marine Pollutant</b>     | YES      |

### Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: **HSR000255**

| <b>HSW (HS) Regulations 2017 and EPA Notices</b> | <b>Trigger Quantity</b>            |
|--|------------------------------------|
| Certified Handler                                | Not required                       |
| Location Certificate                             | 3000L (AWC)                        |
| Tracking Trigger Quantities                      | Not required                       |
| Signage Trigger Quantities                       | 100L                               |
| Emergency Response Plan                          | 100L                               |
| Secondary Containment                            | 100L                               |
| Restriction of Use                               | Only use for the intended purpose. |
| ACVM Approval No.                                | N/A                                |

**Glossary**

|                  |   |
|------------------|---|
| Cat              | Category  |
| EC <sub>50</sub> | Median effective concentration.   |
| EEL              | Environmental Exposure Limit.   |
| EPA              | Environmental Protection Authority  |
| HSNO             | Hazardous Substances and New Organisms.   |
| HSW              | Health and Safety at Work.  |
| LC <sub>50</sub> | Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it. |
| LD <sub>50</sub> | Lethal dose to kill 50% of test animals/organisms.                                      |
| LEL              | Lower explosive level.  |
| OSHA             | American Occupational Safety and Health Administration.                                 |
| TEL              | Tolerable Exposure Limit.   |
| TLV              | Threshold Limit Value-an exposure limit set by responsible authority.                   |
| UEL              | Upper Explosive Level   |
| WES              | Workplace Exposure Limit  |

**References:**

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2020 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

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