

SAFETY DATA SHEET

KIWICARE®

Product Name: *No Fleas Total Protection Spray Concentrate*

Print/View Date: 4/10/2022

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1. PRODUCT AND COMPANY INFORMATION

| | |
|-------------------------------|---|
| Chemical/Product Name: | No Fleas Total Protection Spray Concentrate |
| Recommended uses: | Insecticide |
| Restrictions on Use/Supply: | This substance must only be applied using ground-based application methods. |
| Molecular Formula: | Mixture |
| Supplier: | Kiwicare Corporation Limited |
| Street Address: | 225 Maces Road, Bromley, Christchurch, 8062 New Zealand |
| Postal Address: | P.O Box 15050, Aranui, Christchurch, 8643 New Zealand |
| Telephone | +64 3 389 0778 |
| Email: | info@kiwicare.co.nz |
| Website: | www.kiwicare.co.nz |
| Emergency Contact Numbers: | 0800 764 766 (0800 POISON) |
| National Poisons Centre: | 0800 764 766 (0800 POISON) |

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2. HAZARDS IDENTIFICATION

| GHS Hazard Classification | Transport of Dangerous Goods Pictogram | GHS Pictogram | Signal word | Hazard statement code | Precautionary statement codes | | | |
|---------------------------|--|---------------|-------------|-----------------------|-------------------------------|--------------------------------|-----------------------|----------|
| | | | | | Prevention | Response | Storage | Disposal |
| Eye Dam. 1 | Not applicable for the UN RTDG Model Regulations | | Danger | H318 | P102 P103 P280 | P101 P305+P351+P338 P310 | No storage statements | P501 |
| Asp. Tox. 1 | Not applicable for the UN RTDG Model Regulations | | Danger | H304 | P102 P103 | P101 P301+P310 P331 | P405 | P501 |
| STOT Rep. Exp. 2 | Not applicable for the UN RTDG Model Regulations | | Warning | H373 | P103 P260 | P314 | No storage statements | P501 |
| Aquatic Acute 1 | | | Warning | H400 | P103 P273 | P391 | No storage statements | P501 |
| Aquatic Chronic 1 | | | Warning | H410 | P103 P273 | P391 | No storage statement | P501 |

Signal word: DANGER

Dangerous Goods: Dangerous Goods (Class 9)

Packaging Group: III

Hazardous Substance (GHS) Codes: Eye Damage Cat. 1
 Aspiration Toxicity Cat. 1
 Specific Target Organ Toxicity – Repeated Exposure Cat. 2
 Aquatic Acute Cat. 1
 Aquatic Chronic Cat. 1

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Pictograms:



Hazard Statement:

H318: Causes serious eye damage.

H304: May be fatal if swallowed or enters airways.

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Hazardous to terrestrial vertebrates.

Hazardous to terrestrial invertebrates.

Precautionary Statements:

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P103: Read label before use.

P260: Do not breathe mist or spray.

P273: Avoid release to the environment.

P280: Wear protective gloves/eye protection/face protection.

P310: Immediately call a POISON CENTER or doctor/physician.

P314: Get medical advice/attention if you feel unwell.

P331: Do NOT induce vomiting.

P391: Collect spillage

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338: IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P405: Store locked up.

P501: Rinse container and dispose to landfill or recycling where allowed. Any appropriate and achievable methods for the disposal of a substance in

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accordance with the Hazardous Substances
(Disposal) Notice 2017. Do NOT burn.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Appearance: Colourless transparent liquid.

Ingredients

| Ingredients | CAS # | Content % |
|---|--------------|-----------|
| Permethrin | 52645-53-1 | ~10% |
| Aliphatic Non-Flam Solvent | 64742-47-8 | ~11% |
| Pyriproxyfen | 95737-68-1 | ~0.3% |
| Non specified non-hazardous ingredients | NA (Mixture) | to 100 % |

4. FIRST AID MEASURES

General information: In case of accident, or if you feel unwell, immediately seek medical advice, or call a POISON CENTER (show the label where possible).

Ingestion: May be fatal if swallowed. Rinse mouth. Do NOT induce vomiting. If you are feeling unwell, immediately seek medical advice or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.

Eye Contact: Can cause serious eye damage. Rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation persists, seek medical advice, or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.

Skin Contact: Unlikely to cause skin irritation. Rinse skin with copious amounts of water and wash with soap and water. If skin irritation develops, seek medical advice.

Inhalation: May be fatal if product enters airways. If breathing problems develop, seek immediate medical advice, or call NZ Poisons Centre on 0800 764 766. If medical advice is needed have product label at hand.

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Advice for Medical Doctors: Treat symptomatically

5. FIRE FIGHTING MEASURES

| | |
|-----------------------------------|--|
| HAZCHEM code: | 27 |
| Specific Hazards: | None. Minimise the use of water to prevent environmental contamination. |
| Suitable Extinguishing Media: | Use extinguishing media appropriate to the surrounding conditions. |
| Fire Fighting Advice: | Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later. |
| Hazardous Products of Combustion: | Permethrin emits toxic fumes of hydrogen chloride. Pyriproxyfen emits toxic fumes of nitrogen oxides and carbon monoxide. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------------|--|
| Environmental precautions: | Prevent leakage or spillage if safe to do so. |
| Minor Spills (Up to 20 kg): | Wear protective clothing. Clear area of unprotected personnel. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer. |
| Major Spills (more than 20 kg): | Wear protective clothing. Clear area of unprotected personnel. Minimise spread. Contain spill and collect. Do not allow product or washings to enter the waterways or sewer. If spill does enter waterway contact local authority. Collect in an appropriate sealable container for disposal in an approved landfill. |

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7. HANDLING AND STORAGE

| | |
|--|---|
| Precautions for safe handling: | Avoid prolonged or repeated contact with skin and eye. Avoid inhaling mist/spray. When handling product in bulk, safety footwear should be worn, and proper handling equipment should be used. Always use good personal hygiene procedures when handling this product. Wash hands and face before eating, drinking, or smoking. Clean equipment after use. Do not contaminate drains, sewers, or waterways. |
| Conditions for safe Storage including incompatibilities: | Keep out of the reach of children. Store in original container in a cool, dry, ventilated place, away from direct heat of sunlight. Store away from foodstuffs, children, and animals. Minimum shelf life: 2 years. |
| Protection against fire and explosion: | Keep away from heat sources although the product has no flammability. The product is not explosive. Keep away from oxidizing agents. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|--------------------------------------|---|
| Exposure Standards: | See 'Exposure Standards' below (Workplace Exposure Standards and Biological Exposure Edition 13, 2022) |
| Engineering Controls: | No special requirements when used as recommended. |
| Hand protection: | If repeated or prolonged contact wear chemical resistant gloves. |
| Eye protection: | Wear safety goggles or full-face shield while mixing or spraying to avoid splashes |
| Body protection: | Skin protection not ordinarily required beyond standard issue work clothes. |
| Respiratory Protection: | Wear a respirator or disposable masks while mixing and spraying. |
| General safety and hygiene measures: | Handle in accordance with good hygiene and safety practice. Wearing of closed work clothing is recommended. Minimise contact with the skin, eyes, and clothing. |

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Environmental Exposure Controls: Minimise release to the environment.

Exposure Standards:

| Substance | Cas # | TWA | | STEL | |
|--|-----------|-----|-------------------|------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| Propane-1,2-diol, Vapour, and particulates | [57-55-6] | 150 | 474 | | |

Additional NZ EPA controls:

| Code | Section of HSNO Act | Control |
|--|---------------------|---|
| Application method restriction | 77A | This substance must be applied using ground-based application methods only. Ground based methods of applying pesticides include, But are not limited to, application by ground boom, airblast or knapsack, and do not include aerial application methods. |
| Active ingredient or component specification | 77A | The following limits are set for toxicologically relevant impurities in the active ingredient pyriproxyfen used to manufacture this substance: - toluene: 5g/kg maximum. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------|--|
| Appearance: | Colourless transparent liquid. |
| Odour: | Mild Odour |
| Odour Threshold: | No data |
| pH Value: | 4.0 - 5.0 |
| Melting/freezing point: | No data (Permethrin: 34°C; Pyriproxyfen: 46.0°C) |
| Boiling point (range): | No data (Permethrin: >290°C at 760 mm Hg) |
| Flash Point: | >100°C |
| Flammability: | Not applicable |
| Explosive limits: | Not applicable |

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| Vapour pressure: | No data (Permethrin: 2.18e-08 mmHg) |
| Vapour density: | No data |
| Relative density: | 0.968 Kg/L |
| Solubility: | Miscible with water |
| Partition coefficient: | No data |
| Auto-ignition temperature: | Not applicable |
| Decomposition temperature: | No data |
| Viscosity: | No data |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Stability & Chemical reactivity: | Stable under normal conditions of use. Not explosive or oxidising. |
| Incompatibility or conditions to be avoided: | Avoid strong oxidising agents. Avoid heat sparks and open flames. |
| Corrosive Properties: | Not corrosive to metals. |
| Thermal Decomposition: | Hazardous products of combustion; see section 5 for details. |

11. TOXICOLOGICAL INFORMATION

| | |
|-----------------|--|
| Hazard Class: | Eye Dam. 1; Asp. Tox. 1; STOT RE 2 |
| Acute Toxicity: | Permethrin Acute oral LD ₅₀ > 430 mg/kg (rat). Acute dermal LD ₅₀ >2000 mg/kg (rabbit) |
| | Pyriproxyfen Acute oral LD ₅₀ > 5000 mg/kg (rat). Acute dermal LD ₅₀ =2000 mg/kg (rat) |

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| | |
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| Aspiration hazard | May cause irritation on inhalation of mist or vapour. May be fatal if swallowed or enters airways. |
| Skin corrosion/irritation: | Unlikely to cause skin corrosion/irritation. |
| Serious eye damage/irritation: | May cause serious eye damage. |
| Respiratory or skin sensitisation: | Unlikely to cause skin sensitisation and/or contact dermatitis |
| Germ cell mutagenicity: | No data available |
| Carcinogenicity: | IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. |
| Reproductive toxicity: | This product is not expected to cause reproductive or developmental effects. |
| Specific organ toxicity – single exposure: | No data available |
| Specific organ toxicity – repeated exposure: | Blood and haemopoietic system and liver. |
| Narcotic effects: | No data available. |

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12. ECOTOXICITY INFORMATION

| | |
|--------------------------------------|--|
| Ecological information of substance: | Very toxic to aquatic life with long lasting effects. Do not contaminate waterways, sewers, or drains when using product or packaging. |
| | Permethrin |
| | Rainbow trout, LC ₅₀ (96 hr) = 0.0125 mg/L |
| | Water flea, EC ₅₀ (48 hr) = 0.0006mg/L |
| | Pyriproxyfen |
| | Rainbow trout, LC ₅₀ (96 hr) >0.27 mg/L |
| | Water flea, EC ₅₀ (48 hr) = 0.4mg/L |

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Bioaccumulation: Permethrin has the potential to bioaccumulate.

Soil Toxicity: No soil toxicity.
Permethrin:
Half-life 2-50 days

13. DISPOSAL CONSIDERATIONS

Waste treatment – recommendation: Any appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Notice 2017.

Container Disposal: Empty containers can be recycled or sent to landfill after cleaning if in compliance with local and national regulations.

DO NOT reuse containers. Do NOT burn.

Methods of disposal to avoid Do not empty down stormwater system

14. TRANSPORT INFORMATION

Road, Rail; Marine and Air:

UN Number: 3082

Dangerous Goods Class: Class 9 (land and marine)

Hazchem Code: 2Z

Packaging Group: III

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S

Segregation: Food and Feed

15. N.Z. REGULATORY INFORMATION

EPA HSNO Number: HSR101143

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| GHS Classifications: | Eye Dam.1; Asp. Tox. 1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1 |
| HSNO Controls: | Refer to HSR101143 |
| Additional Controls: | Stores containing >100 litres should have signage, secondary containment, and emergency response plans. |

16. OTHER INFORMATION

SDS date of preparation: 29 / 09 / 2022

SDS date of revision: 29 / 09 / 2027

All Safety Data Sheets are subject to review and should not be left longer than five years before and update is obtained.

For further information visit the Kiwicare web site, www.kiwicare.co.nz, or contact the supplier of the starting material.

The information in this document should be made available to all who may handle the product. For proper and safe use of this product, please refer to the product label.

This information is based on data believed by Kiwicare Corporation Limited to be accurate at the time of writing. It is given in good faith, but no warranty expressed or implied is made as to its accuracy, completeness or otherwise. Every person dealing with the materials referred herein does so at their own risk absolutely and must make independent determinations of suitability and completeness of information from all sources to ensure their proper use.

Attention is drawn to the application and safety instructions set out on the label. This sheet is not a substitute for safety, hazard or application instructions set out on the label. As Kiwicare Corporation Limited and their distributors have no control over storage or use of this product no liability for accident or damage will be accepted.

Abbreviations:

| | |
|------|---|
| ADR: | European agreement concerning the international carriage of Dangerous goods by Road |
| CLP: | Classification Labelling and Packaging |
| EC: | European Commission |
| EU: | European Union |
| GHS: | Global Harmonized System |

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H Phrase: Hazard Phrase

HSNO: Hazardous Substances and New Organisms (1996) Act

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Dangerous Goods

P Phrase: Precautionary Phrase

RID: Regulations concerning the International carriage of Dangerous good by rail

STEL: Short-Term Exposure Limit

TLV: Threshold Limit Value

TWA: Time Weighted Average

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