

# SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product Name:** Permethrin 0.5% Ready to Use  
**Other names:** Homesafe Perm 5EC

**Use:** Ready to use insecticide for control of spiders, borers, cockroaches and other insects.  
Not for use directly on animals or plants.

**Supplier:** Homesafe Products Limited  
**Address:** 87 Manukau Road, Pukekohe 2120  
**Telephone:** 027 2299 1014

**Emergency Phone:** 027 2299 1014  
**National Poisons Centre:** 0800 POISON (0800 764 766)

## 2. HAZARD IDENTIFICATION

Product is classified as hazardous according to Hazardous Substances (Classification) Notice 2017 of the HSNO Act, 1996.

**HSNO Approval:** HSR000313  
**Hazard Classifications:** 6.5A, 6.5B, 9.1A, 9.4B  
**Pictograms:**



**Signal word:** DANGER

### Hazard Statements:

H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H410 Very toxic to aquatic life with long-lasting effects.  
H442 Toxic to terrestrial invertebrates.

### Prevention Statements:

P103 Read label before use.  
P261 Avoid breathing vapours, mist or spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves and eye protection.  
P285 In case of inadequate ventilation wear respiratory protection (mask or respirator).

### Response Statements:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice.  
P363 Wash contaminated clothing before reuse.  
P304 + P341 IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.  
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.  
P391 Collect spillage.

### Storage Statements:

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### Disposal Statements:

P501 Dispose of product and containers in accordance with local regulations.

### Additional label statements:

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.  
Do not apply directly into or over water.

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### 3. COMPOSITION: INFORMATION ON INGREDIENTS

Ingredients	CAS Number	Concentration (%w/w)
Permethrin	52645-53-1	0.5
Other ingredients	Trade secret	Balance

### 4. FIRST AID MEASURES

Consult the National Poisons Information Centre 0800 POISON (0800 764 766) or a doctor in every case of suspected chemical poisoning or if person feels unwell. Have product label or Safety Data Sheet at hand.

**INGESTION:** Do not induce vomiting. Rinse mouth. Call a POISON CENTRE or doctor for advice if person feels unwell.

**SKIN CONTACT:** Wash affected area with soap and water. If irritation or rash occurs, obtain medical advice.

**EYE CONTACT:** Flush with running water for at least 15 minutes. Remove contact lenses if present, and easy to do after 5 minutes before continuing rinsing. If irritation persists, obtain medical assistance.

**INHALATION:** If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If person is experiencing respiratory problems, get immediate medical advice.

**First Aid facilities:** Provide eye baths and safety showers close to areas where exposure may occur.

**Advice to Doctor:** Treat symptomatically and monitor for symptoms. Paresthesia arising from skin contact may be partially managed by application of a moisturizer containing Vitamin E.

### 5. FIRE-FIGHTING MEASURES

**Flashpoint:** Not flammable.

**Suitable extinguishing media:** Alcohol resistant foam, dry chemical, carbon dioxide, fine spray or water fog. Contain runoff.

**HSNO Fire extinguisher requirement:** Not required.

**Hazards from combustion products:** Thermal decomposition may produce toxic/harmful compounds including smoke, oxides of carbon, and hydrogen chloride.

**Precautions for fire fighters and special protective equipment:** Self-contained breathing apparatus with full face-piece and protective clothing including gloves and boots. Cool fire exposed containers with water spray.

**Hazchem Code:** 3Z

### 6. ACCIDENTAL RELEASE MEASURES

#### Emergency Procedures:

Wear appropriate personal protection equipment to prevent skin and eye exposure. Self-contained breathing apparatus is recommended when responding to large spillages of concentrate.

#### Methods and materials for containment

Keep people away from area and take all practicable steps to prevent product from entering streams and waterways. Contain spillage. Collect up spill into labelled container for recovery or disposal. Absorb residue or small spills with sand, soil or vermiculite and dispose of safely in labelled sealed containers. Clean up and report spills immediately. In event of spillage contaminating a watercourse, notify the Police, local Health Protection Officer and Council.

### 7. HANDLING AND STORAGE

**Precautions for safe handling:** Keep out of reach of children. Do not breathe fumes, mist or spray. Avoid contact with skin or eyes. Observe good personal hygiene practices and recommended procedures including wearing of personal protection equipment. Wash hands and exposed skin thoroughly with soap and water after handling.

**Conditions for safe storage:** Keep out of reach of children. Store in tightly closed container away from food, animal feedstuffs, fertilizers, seeds and incompatible materials.

**HSNO requirements:** Signage, secondary containment and emergency response plan required for 100L or more.

**Incompatible materials:** Not specified.

**Other:** Changing out of work clothing and showering recommended at the end of each work shift. Wash work clothes separately from other household clothing.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Health Exposure Standards:** A Workplace Exposure Standard (WES), has not been set by Worksafe for this substance.

**Biological limit values:** None established

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### Engineering Controls:

**Ventilation:** Use in well-ventilated area.

### Personal Protective Equipment:

**Respiratory Protection:** Respiratory protection may be necessary under certain use conditions, e.g. confined space. Under such conditions, an approved respirator with a suitable filter according to local standards, should be worn.

**Eye Protection:** Where there is risk of splashes or contact with spray mist, wear safety goggles to avoid contact with eyes.

**Skin/ Body Protection:** Wear gloves, e.g. neoprene or equivalent.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Slight yellowish liquid
Odour	Slight.
Odour threshold	Not determined
pH	Not determined
Melting/Freezing point °C	Not determined
Boiling Point/Range °C	Not applicable
Flash Point °C	>100.
Flammability (solid, gas)	Not applicable
Upper/lower flammability limits	Not determined
Vapour Pressure kPa @ 20°C	Not determined
Vapour Density kPa @ 20°C	Not determined
Relative density	~1.0
Solubilities	Forms emulsion in water
Partition coefficient: n-octanol/water	Not determined
Autoignition Temperature °C	Not determined
Decomposition Temperature °C	Not determined
Kinematic viscosity	Not determined

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions.

**Conditions to avoid:** Not specified.

**Incompatible materials:** Oxidizing compounds, strong acids, alkalis, reducing agents.

**Hazardous decomposition products:** Thermal decomposition may produce toxic or harmful compounds including smoke, oxides of carbon, and hydrogen chloride.

**Hazardous reactions:** None specified.

## 11. TOXICOLOGICAL INFORMATION

Toxicity classifications determined by assessment of the components in the formulated mixture.

**Acute toxicity:** Not classified as being acutely toxic.

**Aspiration hazard:** Not classified as an aspiration hazard.

**Respiratory irritation:** May irritate the upper respiratory tract.

**Skin corrosion/irritation:** Not classified as skin irritant.

**Serious eye damage/irritation:** Not classified as an eye irritant.

**Respiratory or skin sensitization:** Permethrin identified as both a respiratory or contact sensitizer.

**Germ cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Reproductive toxicity:** Not classified.

**Specific organ toxicity:** Mixture is not classified. Permethrin may cause damage to blood and hematopoietic system if ingested or inhaled by repeated or prolonged exposure.

**Narcotic effects:** Not classified.

**Toxicological Information:**

Permethrin - Rat, oral, LD<sub>50</sub> 220 mg/kg.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** This mixture is classified as very toxic to aquatic life with long lasting effects and as very toxic to terrestrial invertebrates. Do not contaminate waterways, sewers, or drains when disposing of product or packaging.

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**Persistence and degradability:** Permethrin is expected to rapidly degrade.

**Potential to be bioaccumulative:** Permethrin may bioaccumulate. Permethrin log P is 6.1.

**Mobility in soil:** Product emulsifies in water. Limited solubility. Permethrin has a high affinity for organic matter so unlikely to move in soil or contaminate groundwater.

**Other adverse effects:** No information available

### Ecotoxicological Information:

Permethrin - Rainbow trout LC<sub>50</sub> (96 hr) 0.0001 mg/L

- *Ceriodaphnia dubia* (water flea) EC<sub>50</sub> (48 hr) 0.00055 mg/L

- *Apis mellifera* (honey bee) LD<sub>50</sub> (mortality) 0.024 µg/organism

**Environmental Exposure Limits (EEL's):** Not set.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Methods:** Crush and dispose of empty containers. Containers may contain residue. Do NOT use for storage of other products.

Waste resulting from use may be disposed of to an approved waste disposal facility. Dispose in accordance with all local and national regulations.

## 14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	3082	UN No.	3082	UN No.	3082
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS 0.5% PERMETHRIN)	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS 0.5% PERMETHRIN)	Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS 0.5% PERMETHRIN)
DG Class	9	DG Class	9	DG Class	9
Sub. Risk		Sub. Risk		Sub. Risk	
Pack Group	III	Pack Group	III	Pack Group	III
Hazchem	2Z	Hazchem	2Z		

### Dangerous Goods Segregation

This product is classified as a Dangerous Good Class 9 for Transport.

Please consult the Land Transport Rule: Dangerous Goods 2005, and NZS 5433:2012 Transport of Dangerous Goods on Land for information.

## 15. REGULATORY INFORMATION

### HSNO Act 1996

**Approval Code:** HSR000313

**Classifications:** 6.5A, 6.5B, 9.1A, 9.4B

**HSNO Controls:** Refer to [www.epa.govt.nz](http://www.epa.govt.nz) and [www.worksafe.govt.nz](http://www.worksafe.govt.nz) for information on Default Controls and HS Notices.

Additional HSNO Controls have been assigned specific to this substance.

**Regulation:** 77A

**Variation:**

Do not apply onto or into water.

### ACVM Act 1997

**Registration Number:** Not applicable.

Refer to [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)

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### 16. OTHER INFORMATION

**Date of Issue:** 5<sup>th</sup> October 2020  
**Reasons for Issue:** New SDS.  
**Replaces:** Not applicable.

**Abbreviations:**

EPA New Zealand Environmental Protection Authority  
GHS Global Harmonised System  
HSIS Hazardous Substance Information System  
HSNO Hazardous Substances and New Organisms  
NZIoC New Zealand Inventory of Chemicals  
STEL Short Term Exposure Limit (15 minute exposure period)  
TWA Time-Weighted Average (8 hours exposure period)  
WES Workplace Exposure Standard

**References:**

EPA [www.epa.govt.nz](http://www.epa.govt.nz)  
New Zealand Food Safety Authority [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)  
Supplier Safety Data Sheets

**Other:**

The information contained herein is given in good faith but no warranty, expressed or implied is made.

End of safety data sheet

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The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the supplier's knowledge. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Homesafe Products Limited.