



Hazard Statement

- H332 Harmful if inhaled.
- H317 May cause an allergic skin reaction.
- H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement

- 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.
- P202 : **DO NOT** handle until all safety precautions have been read and understood.
- P261 : Avoid breathing dust
- P273 : Avoid release to environment.
- P272 : Contaminated work clothing should not be allowed out of the workplace
- P280 : Wear protective gloves.
- P281 : Use personal protective equipment as required.

Response

- P302+P352 : IF ON SKIN: Wash with plenty of soap and water.
- P304+P340 : IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P308+P313 : IF exposed or concerned: Get medical advice/attention.
- P312 : Call a POISON CENTER or doctor/physician if you feel unwell.
- P321 : Specific treatment (see supplemental first aid on this label).
- P332+P313 : If skin irritation occurs: Get medical advice / attention.
- P333+P313 : If skin irritation or rash occurs: Get medical advice/attention.
- P363 : Wash contaminated clothing before reuse.
- P391 : Collect spillage.

Storage

- P233 : Keep container tightly closed.

Disposal

- P501 : Dispose of contents / container to approved method and / or local regulations.

**SECTION 3: INFORMATION ON INGREDIENTS**

Component (s)	CAS Number	Content (%)
Permethrin TC CIS : TRAN (25 : 75)	52645-53-1	2%
Pyriproxyfen TC	95737-68-1	0.20%
Quartz (Crystalline silica)	14808-60-7	< 1%
Other Ingredients	-	Remainder

**SECTION 4: FIRST AID MEASURES**

- If Inhalation : Move patient to fresh air. If breathing is difficult, give artificial respiration and get medical attention immediately.
- If Skin contact : Remove contaminated clothing immediately and rinse skin off with plenty of soap and water. Get medical attention immediately if irritation persist.
- If Eye Contact : Rinse carefully out with plenty of water At least 15 minutes. If you were contact lenses, remove if possible and wash away. If irritation persist, get medical attention immediately.
- If Ingestion : Rinse your mouth, **DO NOT** induce vomiting. And delivered to the doctor immediately
- First aid : For advice, contact an information center or call 02-419-7007 (24 hours) .If you feel unwell, keep the patient warm and seek medical attention immediately.
- Advice to Doctor : Symptomatic treatment.

**SECTION 5: FIRE FIGHTING MEASURES**

- Extinguishing Media Suitable : Use carbon dioxide, water spray, alcohol-resistant foam or dry powder.
- Extinguishing Media Unsuitable : No data available.

Specific hazards arising during fire fighting

- : Carbon dioxide (CO<sub>2</sub>), Carbon monoxide (CO) and toxic fumes.  
 : Gases produced by burning at high concentrations May cause fainting or fainting

Special Protective Action for Fire-Fighters

- : Wear self - contained breathing apparatus and chemical-protective clothing (Self - Contained Breathing Apparatus, SCBA).  
 : Spray or fog water to cool outside of containers.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions
- : Keep people away from and upwind of spill/leak.
  - : Avoid contact with spilled product or contaminated surfaces.
  - : Remove contaminated clothing immediately and rinse skin off with plenty of soap and water.
  - : Avoid breathing dusts.
  - : Avoid dust generation.
- Personal Protection
- : Wear personal protection equipment with a particle filter mask, goggles, nitrile rubber gloves.
- Environmental Precautions
- : Avoid disposal of spilled material into soil, waterways, drains and sewers.
  - : If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and Material for Containment and Cleaning Up
- : Vacuum, shovel or sweep up and place into a suitable container for reclamation or disposal using a method that does not generate dust.
  - : Wash and clean up affected area after leak and store in a suitable container for waste disposal.
  - : Collect and transfer the product into a properly labeled and tightly closed container.

## SECTION 7: HANDLING AND STORAGE

- Precautions for Safe Handling
- : Use only as directed.
  - : Avoid contact with the skin, eyes and clothing.
  - : Avoid breathing dusts.
  - : Avoid dust generation
  - : Remove contaminated clothing and protective equipment before eating and drinking.
- Precautions for Safe Storage
- : Keep containers tightly closed
  - : Keep in a dry, cool and well-ventilated place.
  - : Keep away from foods children and pets.
  - : Keep away from heat and sources of ignition.

**SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

National Exposure Standards: No exposure standard for Permethrin has been established by Safe Work Australia. However, the following exposure standards have been established:

Atmospheric Contaminant	Exposure Standard (TWA)	STEL
Talc (containing no asbestos fibres)	2.5 mg/m <sup>3</sup>	-
Quartz	0.1 mg/m <sup>3</sup>	-

TWA = Time Weighted Average STEL = Short term Exposure level

- National Exposure Standard : Not data available.
- Engineering Controls : Cover the production process to prevent diffusion of the substance.  
: Provide adequate ventilation.  
: Provide a local vacuum.
- Personal Protective Equipment : Respiratory protection: Wear gas and vapor absorbent respiratory protection that complies with TIS 2382-2551.  
: Eye protection: Goggles / shield.  
: Hand protection: chemical resistant gloves.
- Precautions : Wear chemical protection clothing to prevent skin contact.  
: Change contaminated clothing.  
: Wash your hands and face after working with the substance. Before eating or smoking  
: **Do not** eat, drink or smoke at work.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : White powder.
- Odor : Characteristic scent.
- Limit of Odor to Receive : No data available.
- pH value : 6.0 - 8.0 at 25 degree Celsius.
- Melting / Freezing Point : No data available.
- Boiling Point / Range : No data available.
- Flash Point : No data available.
- Evaporation Rate : No data available.
- Flammability of Solid and Gas : Non-flammable.
- Flammable Limits (LFL) % : No data available  
(UFL) % : No data available
- Explosion Limit (LEL) % : No data available  
(UEL) % : No data available
- Vapour Pressure : No data available.
- Relative Density (Water = 1) : No data available.
- Partition Coefficient in n-Octanol / Water (log K<sub>ow</sub>) : No data available.



Auto - Ignition Temperature	: No data available.
Decomposition Temperature	: No data available.
Solubility	: No data available.
Specific Gravity / Density	: 0.40 - 0.70 kg/L
Viscosity	: No data available.

#### SECTION 10: STABILITY AND REACTIVITY

Reactivity	: No hazardous reactions if stored and handled as indicated.
Chemical Stability	: Stable under normal conditions of storage and use.
Possibility of Hazardous Reactions	: No hazardous reactions if stored and handled as indicated.
Conditions to Avoid	: Avoid heat, sparks, open flames, ignition sources.
Incompatible Materials	: Strong oxidizing agents, strong acid and base.
Hazardous Decomposition Product	: Combustion or thermal decomposition converts to toxic gases. (Hydrocarbons and carbon oxides)

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### Acute Toxicity,

Oral	: LD <sub>50</sub> > 5,000 mg/kg (Rat) (Calculated)
Dermal	: LD <sub>50</sub> > 5,000 mg/kg (Rabbit) (Calculated)
Inhalation	: LC <sub>50</sub> = 1.10 mg/L (4 Hours in Rat) (Calculated)

Skin Corrosion / Irritation	: Causes mild skin irritation.
Eye Damage / Irritation	: Not Classified.
Respiratory Sensitization	: Not Classified.
Skin Sensitization	: May cause an allergic skin reaction.
Germ Cell Mutagenicity	: Not Classified.
Carcinogenicity	: Suspected of causing cancer.
Reproductive Toxicity	: Not Classified.
Specific Target Organ Toxicity	
- Single Exposure	: May cause respiratory irritation or may cause drowsiness or dizziness.
- Repeat Exposure	: Not Classified.
Aspiration Hazard	: Not Classified.

#### SECTION 12: ECOLOGICAL INFORMATION

##### Hazardous to the Aquatic Environment

Acute Hazard	: Toxic to aquatic life.
Chronic Hazard	: Toxic to aquatic life with long lasting effects.

Persistence and Degradability	: No data available.
Bio-Accumulative Potential	: No data available.
Mobility in Soil	: No data available.
Other Adverse Effects	: No data available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Treatment Method : Waste must be disposed of in accordance with federal, state and local environmental control regulations.  
: **DO NOT** dispose into the environment, waterways, drains and sewers.  
: Should not produce waste contaminated soil or water.

Container Treatment Method


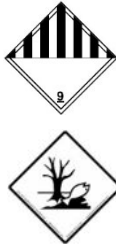

: Waste must be disposed of in accordance with federal, state and local environmental control regulations.  
: **DO NOT** discharge container to watercourses.

**SECTION 14: TRANSPORT INFORMATION**

**AUSTRALIAN DANGEROUS GOODS (ADG)**

Road & Rail Transport: Clearout PLUS IGR Dust Insecticide is exempt from classification as a Dangerous Good in packs less than 3,000 kg under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

For bulk shipments this product is a class 9, UN 3077, as per below

Regulation	UN No.	Proper Shipping Name	Classes	PG*	Symbol	Remark
ADR	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Permethrin, Pyriproxyfen)	9	III		Hazchem code 2Z
IMDG	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Permethrin, Pyriproxyfen) (MARINE POLLUTANT)	9	III		Emergency schedules (Ems) F-A, S-F
IATA	3077	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Permethrin, Pyriproxyfen)	9	III		<b>Cargo Packing Instruction</b> : 914 <b>Passenger Packing Instruction</b> : 914

Beware ensure transportation of the container tightly closed, no leak and **DO NOT** overturned.  
**DO NOT** delivery with food, fiber, oxidizing agent, bases, etc.

## SECTION 15: REGULATORY INFORMATION

APVMA Registration Number : 91091

## SECTION 16: OTHER INFORMATION

### References

- : European Chemicals Agency;  
<https://echa.europa.eu/>
  - : Toxicology Data Network, U.S. National Library of Medicine;  
<https://toxnet.nlm.nih.gov/>
  - : National Institute of Technology and Evaluation;  
[http://www.safe.nite.go.jp/english/ghs/ghs\\_index.html](http://www.safe.nite.go.jp/english/ghs/ghs_index.html)
  - : บัญชีรายชื่อวัตถุอันตราย กระทรวงอุตสาหกรรม;  
[https://www.jetro.go.jp/ext\\_images/thailand/thai/pdf/hazardlist13\\_tha.pdf](https://www.jetro.go.jp/ext_images/thailand/thai/pdf/hazardlist13_tha.pdf)
- :Search Hazardous Substances". Safe Work Australia website. (2015)

### **Disclaimer**

*This article is as accurately as possible compiled with the best of our company's knowledge at the time documentation. Each user should read this SDS and consider the information in the context of how the material will be handle and used in the workplace including in conjunction with other products. If classification or further information is needed to ensure an appropriate risk assessment, the user should contact our technical team.*

*The above information is believed to be correct but does not purpose to be all inclusive and shall be used only as a guide. No warranty is expressed or implied regarding the accuracy and completeness of the data. As such, we cannot be held liable for any injury or economic loss. Users are further reminded of the possible risks of using this material for any other purpose than those for which it was intended. The above information can be utilized only for meeting regulatory norms in regard to handling and labeling advice.*

**- END -**