



SAFETY DATA SHEET

PYRATE NATURAL INSECTICIDE APVMA Approval No. 88596

SECTION 1. IDENTIFICATION

Product name:	PYRATE NATURAL INSECTICIDE APVMA Approval No. 88596
Recommended Use:	Insecticide for use as described on the product label.
Restrictions on Use:	None specified.
Supplier of SDS:	Freezone Public Health Pty Ltd
Supplier Address:	18 Gilpin Street Shorncliffe QLD 4017
Supplier Phone:	07 3869 4436
Supplier Fax:	07 3869 4433
Supplier Email:	info@freezone.net.au
Emergency Telephone Number:	Craig Jephcott 0412 200 252 Poisons Information Centre 13 11 26

SECTION 2. HAZARD(S) IDENTIFICATION

Classification of the substance or mixture

Physical hazards	Flam. Liq. 4 - H227
Health hazards	Skin Sens. 1B - H317
Environmental hazards	Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410
Hazard pictograms	



Signal word	WARNING
Hazard statements	H227 Combustible liquid. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements:	P210 Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking. P261 Avoid breathing vapour/ spray. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water.
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P321 Specific treatment (see medical advice on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

P362+P364 Take off contaminated clothing and wash before reuse.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.

P391 Collect spillage.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container in accordance with national regulations

SECTION 3. COMPOSITION AND INFORMATION ON INGREDIENTS

PYRETHRINS contains 40g/L

CAS number: 8003-34-7

PIPERONYL BUTOXIDE contains 160g/L

CAS number: 51-03-6

METHYL METHOXY BUTANOL contains 100-300g/L

CAS number: secret

EC number: secret

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT contains 10-50g/L

CAS number: 51-03-6

Non-hazardous ingredients contains 300-600g/L

CAS number: secret

EC number: secret

Full text for all hazard statements is contained in Section 16.

SECTION 4. FIRST AID MEASURES

First aid measures

General information	Show this Safety Data Sheet to the medical personnel.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. Get medical attention if symptoms are severe or persist.
Ingestion	Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately.
Skin Contact	Rinse with water.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Get medical attention if any discomfort continues.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

Most important symptoms and effects, both acute and delayed

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	No specific symptoms known.
Ingestion	Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.
Skin contact	May cause skin sensitization
Eye contact	May be slightly irritating to eyes.

Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media The product is combustible. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing Media

Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture

Specific hazards Containers can burst violently or explode when heated, due to excessive pressure

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	build-up.
Hazardous combustion	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.
Advice for firefighters Protective actions during Firefighting	Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to Australia/New Zealand Standards AS/NZS 4967 (for clothing) AS/NZS 1801 (for helmets), AS/NZS 4821 (for protective boots), AS/NZS 1801 (for protective gloves) will provide a basic level of protection for chemical incidents.
Hazchem Code	•3Z

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material.
Environmental precautions	Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.
Clean up methods	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal, see Section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for handling	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

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Storage precautions Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Store at temperatures between 0°C and 25°C.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure limits

Pyrethrins Safework Australia Workplace Exposure Standards: Long-term exposure limit (8-hour TWA): 5 mg/m³

Exposure controls Protective equipment



Appropriate engineering Controls

Provide adequate ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection

To protect hands from chemicals, gloves should comply with Australia/New Zealand Standard AS/NZS 2161.

Other skin and body Protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

Respiratory protection

Ensure all respiratory protective equipment is suitable for its intended use and complies with Australia/New Zealand Standard AS/NZS 1716. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Full face mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716. Half mask and quarter mask respirators with replaceable filter cartridges should comply with Australia/New Zealand Standard AS/NZS 1716.

Environmental exposure Controls

Keep container tightly sealed when not in use. 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

SECTION 10. STABILITY AND REACTIVITY

Appearance	Clear liquid.
Colour	Pale yellow
Odour	Mild solvent odour
Flash point	> 61°C Closed cup.
Relative density	~ 0.82 g/ml
Chemical stability	Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.
Reactivity	See the other subsections of this section for further details.
Possibility of hazardous reactions	No potentially hazardous reactions known
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
Incompatible materials	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Hazardous decomposition	Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological effects Information on active ingredient (pyrethrum)

Acute toxicity - oral

Notes (oral LD₅₀) >2,000 mg/kg, , Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) >2,000 mg/kg, , Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) >5.0 mg/l, 4 hours, Rat

Skin corrosion/irritation

Animal data No specific test data are available.

Serious eye damage/irritation

Serious eye damage/irritation No specific test data are available.

Respiratory sensitisation

Respiratory sensitisation No specific test data are available.

Skin sensitisation

Skin sensitisation Product is a skin sensitiser

Germ cell mutagenicity

Genotoxicity - in vitro No specific test data are available.

Carcinogenicity

Carcinogenicity No specific test data are available.

Reproductive toxicity

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Reproductive toxicity - fertility No specific test data are available.

Reproductive toxicity – development No specific test data available

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No specific test data are available.

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways. Pneumonitis may be the result if vomited material containing solvents reaches the lungs

General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation

No specific symptoms known.

Ingestion

Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

Skin Contact

May cause sensitisation by skin contact.

Eye contact

No specific symptoms known.

Route of exposure

Ingestion Inhalation Skin and/or eye contact

Target Organs

No specific target organs known.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Aquatic Acute 1 - H400 Very toxic to aquatic life. Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

Acute aquatic toxicity
Acute toxicity - fish

No specific test data are available.

Acute toxicity –
aquatic invertebrates

Not available.

Persistence and degradability

Persistence and degradability

The degradability of the product is not known.

Bioaccumulative potential

Bioaccumulative Potential

No data available on bioaccumulation.

Mobility in soil

Mobility

No data available.

Other adverse effects

Other adverse effects

None known.

SECTION 13. DISPOSAL CONSIDERATIONS

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General information	The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.
Disposal methods	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14. TRANSPORT INFORMATION

General	Not classified as dangerous for transport within Australia.
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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Australia - AICS

All the ingredients are listed or exempt.

SECTION 16. OTHER INFORMATION

Revision date	-
Revision	1
Supersedes date	-
Complete hazard statements	H227 Combustible liquid. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.