

Safety Data Sheet: PYGANIC

1. IDENTIFICATION

Product Name: PYGANIC
Other Names: Pyrethrins
Recommended Use: An organic insecticide
Distributor: Key Industries Ltd
Address: PO Box 65 070 Mairangi Bay, Auckland 0754
Telephone: 09 917 1791
Emergency Phone: 027 4941659
National Poisons Centre: 0800 764 766

MANUFACTURER: McLaughlin Gormley King Company,
Address: 8810 Tenth Avenue North,
Minneapolis MN. 55427
P.O. Box 4730
North Rocks, 2151 Australia
Telephone: (61) 2 88500011

2. HAZARDS IDENTIFICATION

Hazard Classifications: 9.1A, 9.4B
Hazards: Approved Handler Applies

3. COMPOSITION: INFORMATION ON INGREDIENTS

COMPONENT(S)	CAS #	EINECS	EXPOSURE LIMITS	% BY WEIGHT
Pyrethrins	8003-34-7	232-319-8	5 mg/m ³ (ACGIH)	1.4
Surfactants	proprietary	None	10 mg/m ³ (WES)	Balance

PEL = Permissible Exposure Limits TWA = Time Weighted Average (8 hr)
TLV = Threshold Limit Value STEL = Short Term Exposure Limit (15 min)
WES = Workplace Exposure Standard

4. FIRST AID MEASURES

FIRST AID:

You should call the Poisons Information Centre if you feel you may have been poisoned, burned or irritated by this product. The number is 0800 POISON (0800 764 766) from anywhere in New Zealand and is available at all times. Have this SDS with you when you call.

FIRST AID PROCEDURES:

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call the National Poisons Centre or a doctor for treatment advice.

EMERGENCY PHONE: KEY INDUSTRIES LTD (Frank Visser, Managing Director): 0274 941 659

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SKIN / HAIR: Take off contaminated clothing. Rinse skin and hair immediately with plenty of water for 15-20 minutes. Call the National Poisons Centre or a doctor for treatment advice.

INHALATION: Move person to fresh air. If person is not breathing, call a doctor or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call the National Poisons Centre or a doctor for further treatment advice.

INGESTION: Call the National Poisons Centre or a doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless told to do so by a doctor. Do not give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: >93.30C METHOD: Tag Closed Cup

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: not established

UPPER FLAMMABLE LIMIT: not established

AUTOIGNITION TEMPERATURE: not established

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions, this product will support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides.

EXTINGUISHING MEDIA: Foam, carbon dioxide, or dry chemical.

6. ACCIDENTAL RELEASE MEASURES:

SMALL SPILL: Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take action to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

LARGE SPILL: Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take action to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent

WASTE DISPOSAL METHOD: Contaminated absorbent and wash water should be disposed of according to local regulations under the Resource management Act. Avoid contamination of any water supply with chemical or empty container.

7. HANDLING AND STORAGE

HANDLING: Wear chemically impervious gloves. Wear approved safety glasses, goggles, or a full-face

shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not normally required when handling this product, but recommended in the absence of proper mechanical ventilation. Do not contaminate water, feed, or food by storage, handling, or disposal. Read and observe all precautions and instructions on the label

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STORAGE: Store containers upright and closed. Store in areas that are cool, dry and well ventilated.

Keep away from heat, ignition sources and strong oxidizers. Emptied containers may retain product residues.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: Not established by ACGIH (see Section 2 for individual components).

ENGINEERING CONTROLS: Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

RESPIRATORY PROTECTION: Wear an approved organic vapor respirator in absence of proper mechanical ventilation.

SKIN PROTECTION: Wear chemically impervious gloves and protective clothing.

EYE PROTECTION: Wear approved safety glasses, goggles, or a full-face shield.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT, DRINK OR APPLY COSMETICS IN WORK AREA! Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, yellow-amber

ODOR: Sweet odor characteristic of pyrethrum

PHYSICAL STATE: Liquid

VAPOR PRESSURE: 60.0 Pascals @ 38°C

NOTE: This result is for the Active Ingredient Pyrethrins

VAPOR DENSITY: Not established

BOILING POINT: Not established

MELTING POINT: Not applicable

SOLUBILITY IN WATER: Partially miscible in water

SPECIFIC GRAVITY @ 20°C: 0.922

COLOR, (GARDENER): Not established

pH: 6.6 @ 95% Water

VISCOSITY: 23.7 cps @ 24.0°C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

INCOMPATIBILITY: Strong acidic or alkaline materials

HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable.

HAZARDOUS POLYMERIZATION: Will not occur

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11. TOXICOLOGICAL INFORMATION

ACUTE STUDIES:

INGESTION: Acute Oral LD50 (rat) > 2,000 mg/kg

SKIN:

Acute Dermal LD50 (rabbit) > 2,000 mg/kg

Primary skin irritation (rabbit): Irritation index = 1.58

Dermal Sensitization (guinea pig): Positive

INHALATION:

Acute Inhalation LC50 (rat) >2.33 mg/litre air

EYE:

Primary eye irritation (rabbit): Conjunctival irritation clearing in 72 hours.

SUBCHRONIC:

DERMAL IRRITATION: May cause allergic reaction in sensitive individuals.

ORAL TOXICITY STUDY: Not established

CHRONIC:

CARCINOGENICITY: Pyrethrum has been tested in chronic feeding studies in mice and rats. Slightly elevated incidences of benign tumors of the thyroid and liver were seen in rats following high doses of Pyrethrum. Further detailed scientific studies into the mechanism causing these responses indicate that these effects in the animals only occur at doses greatly exceeding the likely human exposure levels. Thus, the effects seen in animals are of little relevance to humans.

ONCOGENICITY: Not established

REPRODUCTIVE: Not established

TERATOGENICITY: Not established

MUTAGENICITY: Not established

12. ECOLOGICAL INFORMATION

(1) TOXIC EFFECTS ON ORGANISMS:

EELWATER pyrethrins 0.01 µg/litre

FISH: LC50 rainbow trout 5.1 ppb

BIRD: Acute oral LD50 >2000 mg/kg

dietary LC50 >5620 ppm

(1) TOXICITY TO USEFUL INSECTS:

HONEYBEE: contact LD50 0.022 µg/bee

(1) NOTE: These results are for the Active Ingredient Pyrethrins

13. DISPOSAL CONSIDERATIONS

Product Disposal

This product should be disposed of according to local regulations. When disposing of waste or surplus avoid contact with eyes and skin. Wear impervious gloves/clothing and chemical safety goggles. Do not wash into drains. Do not mix with other waste materials.

14. TRANSPORT INFORMATION

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This product is not classified as a Dangerous Good by the NZLTA ref 45001.
Store apart from animal and human foodstuffs.

UN NUMBER: None allocated

ERMA Regulations:

PROPER SHIPPING NAME: Insecticides, Insect or Animal Repellents, Liquid, N.O.S.

PACKING GROUP (NZ): Schedule 3 (UN PG III) for quantities >1 litre
Schedule 4 for quantities <1 litre per package.
Quantity <2.5 litres to be in child resistant packaging.

15. REGULATORY INFORMATION

MPI Approval Number: NO P7039

EPA Approval Number: HSR000051

NZFSA Approved Type A (all animal product except dairy)

16. OTHER INFORMATION

Reasons for Issue:

HMIS RATINGS:

We assign HMIS ratings to this product based on the hazards of its ingredient(s). Since the customer is most aware of the applications and conditions of use, he must ensure that the proper personal protective equipment is provided consistent with information contained in Section's 7 and 8 of this MSDS.

HMIS RATINGS: Health 1

Flammability 1

Reactivity 1

Update format and content to comply with legislation