

# MATERIAL SAFETY DATA SHEET

**MGK<sup>®</sup> Asia-Pacific Pty Ltd**

McLaughlin Gormley King Company

**PRODUCT CODE:** 007443, PyGanic<sup>®</sup> Organic Insecticide

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Revision Date: 25/7/2013  
Replaces: 25/9/2012

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**PRODUCT CODE:** 007443, APVMA approval number 59684  
**PRODUCT NAME:** PyGanic<sup>®</sup> Organic Insecticide  
**PRODUCT DESCRIPTION:** An Organic Insecticide composed of the six constituents of Pyrethrum (Pyrethrin I, Pyrethrin II, Cinerin I, Cinerin II, Jasmolin I and Jasmolin II).  
**CHEMICAL NAME:** Pyrethrins  
**SYNONYMS:** EC 1.4, PyGanic 1.4  
**UN NUMBER:** Not Assigned.  
**HAZCHEM CODE:** 3X  
**Poison Schedule Number:** Information not available.  
**MANUFACTURER:** McLaughlin Gormley King Company, 8810 Tenth Avenue North, Minneapolis MN. 55427  
**SUPPLIER:** MGK<sup>®</sup> Asia-Pacific PTY Limited  
Suite 105/25 Solent Circuit  
Baulkham Hills NSW 2153, Australia

### 24 Hour Emergency Contact:

#### **Telephone numbers:**

0412 55 10 91 / 0417 95 07 92

## 2. HAZARDS IDENTIFICATION

Classified as **HAZARDOUS** according to the criteria of **NOHSC Australia**.

**NOT** classified as **DANGEROUS GOODS** for transport by road and rail according to the criteria of **ADG 6**

**HAZARDS:** Harmful if swallowed or absorbed through the skin.  
Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or spray mists of this product.  
Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.  
Applicators and other handlers must wear a long-sleeved shirt and long-pants, chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber or Viton, shoes and socks.

**EYES:** May cause temporary irritation, tearing, and blurred vision.

**SKIN:** Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**SKIN ABSORPTION:** Harmful if absorbed through the skin.

**INGESTION:** Harmful if swallowed.

**INHALATION:** Excessive inhalation may cause nasal and respiratory irritation.

**CHRONIC EFFECTS:** None known

**ECOLOGICAL:** See Section's 12 and 15.

**TOXICOLOGICAL:** See Section 11.

## LABEL SYMBOL AND CLASSIFICATION



Environment – "N"



Harmful – "Xn"

**RISK PHRASES:** **R20** Harmful by inhalation.  
**R43** May cause sensitization by skin contact.  
**R50** Very toxic to aquatic organisms.

**SAFETY PHRASES:** **S2** Keep out of the reach of children.

**S24/25** Avoid contact with skin and eyes.

**EMERGENCY PHONE: MGK ASIA Pacific (Dennis Foster, Managing Director):** 0412 55 10 91  
**24 HOUR EMERGENCY PHONE (CHEMTREC) INTERNATIONAL:** (0011) (1)(703) 527-3887

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- S29** Do not empty into drains.  
**S37** Wear suitable gloves.  
**S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(s)	CAS #	EINECS	EXPOSURE LIMITS	% BY WEIGHT
Pyrethrins	8003-34-7	232-319-8	5 mg/m <sup>3</sup> (ACGIH)	1.4
Surfactants	Proprietary	N/a	10 mg/m <sup>3</sup> (WES)	Balance

PEL = Permissible Exposure Limits.

TLV = Threshold Limit Value.

TWA = Time Weighted Average (8 hr).

STEL = Short Term Exposure Limit (15 min.).

WES = Workplace Exposure Standard

**COMMENTS:** Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

## 4. FIRST AID MEASURES

**FIRST AID PROCEDURES:** If poisoning occurs, contact a doctor or the Poisons Information Center at 131126 from anywhere in Australia (0800 764 766 in New Zealand). Have this MSDS with you.

**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 Poisons Information Centre (Phone 13 11 26) or doctor for treatment advice.

**SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call the Poisons Information Centre (Phone 13 11 26) or doctor for treatment advice.

**INHALATION:** Move person to fresh air. If person is not breathing, call 000 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call the Poisons Information Centre (Phone 13 11 26) or doctor for further treatment advice.

**INGESTION:** Immediately call the Poisons Information Centre (Phone 13 11 26) or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by the Poisons Information Centre or doctor. Do not give anything by mouth to an unconscious person.

**NOTES TO PHYSICIAN:** For skin effects, a highly efficient therapeutic agent for Pyrethrin exposure is topical application of Tocopherol Acetate (Vitamin E).

## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

**FLASH POINT:** > 93.3 °C **METHOD:** TAG Closed Cup.

This product is classified as a **C1** combustible liquid.

### FLAMMABLE LIMITS:

**LOWER FLAMMABLE LIMIT:** not established.

**UPPER FLAMMABLE LIMIT:** not established.

**AUTOIGNITION TEMPERATURE:** not established.

**HAZARDOUS COMBUSTION PRODUCTS:** Under fire conditions, this product may 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.

**FIRE FIGHTING INSTRUCTIONS:** Treat as an oil fire. Use a full-faced self-contained breathing apparatus. Keep nearby containers and equipment cool with a water stream. Contain the run-off, if possible, for proper disposal.

**Australia Police and Fire Brigade:** Dial **000**

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## 6. ACCIDENTAL RELEASE MEASURES:

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- 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:** Contains Pyrethrins, which are toxic to fish and aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state and federal regulations.

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## 7. HANDLING AND STORAGE

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- HANDLING:** Wear a long-sleeved shirt and long-pants, chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber or Viton, shoes and socks. 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.
- 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.
- 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.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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- EXPOSURE LIMITS:** Not established by ACSS.
- ENGINEERING CONTROLS:** Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.
- RESPIRATORY PROTECTION:** Not normally required. Use in well ventilated areas.
- SKIN PROTECTION:** Wear a long-sleeved shirt and long-pants, chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber or Viton, shoes and socks.
- EYE PROTECTION:** Take prudent precautions to avoid contact with eyes.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Clear, amber-brown colored liquid.  
**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.  
**VOC:** < 1%  
**VAPOR DENSITY:** Heavier than air.  
**BOILING POINT:** Not established  
**MELTING POINT:** Not established  
**SOLUBILITY IN WATER:** Partially miscible in water.  
**SPECIFIC GRAVITY:** 0.922 (Water = 1) @ 20°C (68°F)  
**COLOR, (GARDNER):** Not established  
**pH:** 6.45 @ 5% in water.  
**VISCOSITY:** 23.7 CPS @ 24°C (75.2°F) Brookfield

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## 10. STABILITY AND REACTIVITY

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**CHEMICAL STABILITY:** Stable.  
**INCOMPATIBILITY:** Strong acidic or alkaline materials.  
**HAZARDOUS DECOMPOSITION PRODUCTS:** Under fire conditions, this product may support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides.  
**HAZARDOUS POLYMERIZATION:** Will not occur

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE STUDIES:

#### INGESTION:

Acute Oral LD<sub>50</sub> (rat) > 2,000 mg/kg

#### SKIN:

Acute Dermal LD<sub>50</sub> (rabbit) > 2,000 mg/kg

Primary skin irritation (rabbit): Slight irritation at 72 hours. Irritation Index = 1.58

Dermal Sensitization (guinea pig): Positive

#### INHALATION:

Acute Inhalation LC<sub>50</sub> (rat) The Acute Inhalation LC<sub>50</sub> of this material places it in EPA Toxic Category III.

#### EYE:

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

### SUBCHRONIC:

#### DERMAL IRRITATION:

May cause an allergic reaction in sensitive individuals.

#### ORAL TOXICITY STUDY:

Not established

### CHRONIC:

#### CARCINOGENICITY:

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

#### CARCINOGENICITY/

#### ONCOGENICITY: Pyrethrins

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

### ECOTOXICOLOGICAL INFORMATION:

This pesticide is extremely toxic to fish and other aquatic organisms. Do not apply directly to water. Drift from treated areas may be hazardous to organisms in adjacent aquatic sites. Do not pour product or rinse water down any drain. Do not contaminate water when disposing of equipment washwaters or rinsate.

### (1) TOXIC EFFECTS ON ORGANISMS:

#### EEL<sub>WATER</sub>

pyrethrins 0.01 µg/litre

#### FISH: LC<sub>50</sub>

rainbow trout 5.1ppb

#### BIRD: Acute oral LD<sub>50</sub>

>2000 mg/kg

#### dietary LC<sub>50</sub>

>5620 ppm

### (1) TOXICITY TO USEFUL INSECTS:

#### HONEYBEE: contact LD<sub>50</sub>

0.022 µg/bee

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

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## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Dispose of in accordance with label directions or local regulations.

**CONTAINER DISPOSAL:** Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.

### RCRA / CERCLA HAZARDOUS WASTE:

**INGREDIENT**

Pyrethrins

**RCRA ID#:**

N/a

**CERCLA RQ-VALUE**

1 Lb.

## 14. TRANSPORT INFORMATION

**AUSTRALIAN DANGEROUS GOODS CODE INFORMATION:** Not classified as Dangerous Goods for transport by road or rail according to the criteria of ADG 6.

**PROPER SHIPPING NAME**

None allocated

**HAZARD CLASS:**

None allocated

**IDENTIFICATION NUMBER (UN):**

Not Assigned

**PACKING GROUP:**

None allocated

### INTERNATIONAL TRANSPORTATION REGULATIONS:

**ICAO / IATA DESCRIPTION:** Not considered hazardous by IATA Regulations for transportation via air freight

**IMO DESCRIPTION (IMDG CODE):** Not Available.

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## 15. AUSTRALIAN REGULATORY INFORMATION

**APVMA Registration Number:** Not Available  
**Poison Scheduling:** S5

### U.S. FEDERAL REGULATIONS:

**SARA TITLE III: (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/ 312 HAZARD CATEGORIES:**

**FIRE:** NO      **PRESSURE GENERATING:** NO      **REACTIVITY:** NO      **ACUTE:** YES

**SECTION 313 REPORTABLE INGREDIENTS:** This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

**CAS#:**      **CHEMICAL NAME:**      **% BY WEIGHT:**  
This product contains no SARA Title III Section 313 chemicals that exceed the reporting limits.

### 302/ 304 EMERGENCY PLANNING

**EMERGENCY PLAN:** There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

See Section 13 of this MSDS for the components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4).

### TSCA (TOXIC SUBSTANCE CONTROL ACT)

**TSCA STATUS:** All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

### STATE REGULATIONS:

**VOLATILE ORGANIC COMPOUNDS (VOC):** This product contains less than 1% VOC's.

## 16. OTHER INFORMATION

**Date Prepared:** 25 July 2013  
**Replaces:** 25 September 2012  
**Revision Due Date:** 25 July 2018

### 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.

<b>HEALTH:</b>	<b>2</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>1</b>

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*This Material Safety Data Sheet has been written according to the NOHSC National Code of Practice for the Preparation of Material Safety Data Sheets, 2<sup>nd</sup> Edition [NOHSC:2011(2003)].*

*The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.*

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**Material Safety Data Sheet** prepared by T. Azzivitto

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