

MATERIAL SAFETY DATA SHEET

MGK[®] Asia-Pacific Pty Ltd

McLaughlin Gormley King Company

PRODUCT CODE: 007443

Page: 1 of 7

Revision Date: July 24, 2006

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT CODE: 007443, APVMA approval number 59684
PRODUCT NAME: PyGanic[®] 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: 3[Z]
Poison Schedule Number: Information not available.
MANUFACTURER: McLaughlin Gormley King Company, 8810 Tenth Avenue North, Minneapolis MN. 55427
SUPPLIER: MGK[®] Asia-Pacific PTY Limited
P.O. Box 4730
North Rocks NSW 2151, Australia
A.C.N. 085 882 382
Telephone: (02) 9872-9666
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EMERGENCY PHONE MGK ASIA-PACIFIC (Dennis Foster, Managing Director) : (61) 2 9872-9666
24 HOUR EMERGENCY PHONE (CHEMTREC) INTERNATIONAL: (0011) (1)(703) 527-3887

2. 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

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

EC LABEL SYMBOL AND CLASSIFICATION

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



EEC Environment – “N”

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

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

CAUTION. May cause eye irritation and skin irritation. Harmful if absorbed through the skin. Harmful if swallowed. Avoid breathing vapors or spray mists of this product. Take prudent precautions to avoid contact with skin, eyes, and clothing. ALWAYS wear chemically-resistant gloves (Ex: neoprene, or nitrile) when handling this product.

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EYES: Causes temporary irritation, tearing, and blurred vision.
SKIN: Can cause skin irritation. Can cause a burning or pricking sensation on more sensitive areas (face, eyes, mouth).
SKIN ABSORPTION: Harmful if absorbed through the skin.
INGESTION: Harmful if swallowed.
INHALATION: Excessive inhalation may be irritating to the respiratory tract.
CHRONIC EFFECTS: None known

ECOLOGICAL: See Section's 12 and 15.

TOXICOLOGICAL: See Section 11.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

4. FIRST AID MEASURES

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 a poison control center or doctor for treatment advice.

SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

INGESTION: Call a poison control center or 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 poison control center 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/ 200 °F **METHOD:** TAG Closed Cup.

This product is classified as a **C2** 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.

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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, state, and federal regulations.
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7. HANDLING AND STORAGE

- HANDLING:** Wear chemically impervious gloves such as neoprene or nitrile. Take prudent precautions to avoid breathing vapors and/ or spray mists of this product. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not normally required when handling this material, but recommended in the absence of good mechanical ventilation. Do not contaminate water, food or feedstuffs 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, open flame, ignition sources, and strong oxidizers. Emptied containers may retain product residues. KEEP OUT OF REACH OF CHILDREN.
-

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- EXPOSURE LIMITS:** Not established by OSHA or 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:** Not normally required. Use in well ventilated areas.
- SKIN PROTECTION:** Wear chemically impervious gloves such as neoprene or nitrile.
- EYE PROTECTION:** Take prudent precautions to avoid contact with eyes.
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9. PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE:** Clear, amber-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:** < 2%
- VAPOR DENSITY:** Heavier than air.
- BOILING POINT:** Not established
- MELTING POINT:** Not established
- SOLUBILITY IN WATER:** Partially miscible in water.
- SPECIFIC GRAVITY:** 0.922 @ 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

CHEMICAL STABILITY: Stable.
INCOMPATIBILITY: Strong acidic or alkaline materials.
HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable.
HAZARDOUS POLYMERIZATION: Will not occur

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): Slight irritation at 72 hours. Irritation Index = 1.58
Dermal Sensitization (guinea pig): Positive

INHALATION:

Acute Inhalation LC₅₀ (rat) The Acute Inhalation LC₅₀ 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

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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 _{WATER}	pyrethrins 0.01 µg/litre
FISH: LC ₅₀	rainbow trout 5.1 ppb
BIRD: Acute oral LD ₅₀	>2000 mg/kg
dietary LC ₅₀	>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

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and offer for recycling or reconditioning, or dispose of in a sanitary landfill or by other procedures approved by State and Local authorities.

RCRA / CERCLA HAZARDOUS WASTE: INGREDIENT

Pyrethrins

**RCRA
ID#:**

CERCLA RQ-VALUE

1 Lb.

14. TRANSPORT INFORMATION

AUSTRALIAN DANGEROUS GOODS CODE INFORMATION: Not considered hazardous by ADG Regulations.

PROPER BULK SHIPPING NAME	Insecticides, Insect or Animal Repellent, Liquid, N.O.S.
HAZARD CLASS:	Not applicable
IDENTIFICATION NUMBER (UN):	Not applicable
PACKING GROUP:	Not applicable

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. REGULATORY INFORMATION

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 of the 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:**
None

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.

EUROPEAN COMMUNITY

EC RISK PHRASES:

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

EEC Environment – "N"

EC SAFETY PHRASES:

S2 Keep out of the reach of children.
S24/25 Avoid contact with skin and eyes.
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).

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16. OTHER INFORMATION

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	2
Flammability	1
Reactivity	1

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.

Material Safety Data Sheet prepared by T. Azzivitto

CONTACT Point:

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