Asia-Pacific Pty Ltd

PRODUCT CODE: 007443 Page: 1 of 7

21/10/2011 Revision Date:

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT CODE:

007443, EPA REG. NO.: 1021-1771

PRODUCT NAME:

PyGanic[®] Crop Protection EC 1.4 II

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: UN NUMBER: EC 1.4, PyGanic 1.4

HAZCHEM CODE:

Not Assigned.

Poison Schedule Number:

3[Z]

MANUFACTURER:

Information not available.

SUPPLIER:

McLaughlin Gormley King Company, 8810 Tenth Avenue North, Minneapolis MN. 55427 MGK® Asia-Pacific PTY Limited.

P.O. Box. 4730

North Rocks, 2151 Australia

A.C.N. 085 882 382

Telephone: (61) 2 8850-0011 Facsimile: (61) 2 8850-0044

EMERGENCY PHONE MGK ASIA-PACIFIC (Dennis Foster, Managing Director):

(61) 2 8850 0011

(0011) (1)(703) 527-3887

24 HOUR EMERGENCY PHONE (CHEMTREC) INTERNATIONAL:

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(s)

CAS#

EINECS

EXPOSURE LIMITS

% BY WEIGHT

Pyrethrins

8003-34-7

232-319-8 5 mg/m³ (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

Harmful by inhalation. **R20**

May cause sensitization by skin contact.

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.

EMERGENCY PHONE: MGK ASIA Pacific (Dennis Foster, Managing Director):

(02) 8850-0011

24 HOUR EMERGENCY PHONE (CHEMTREC) INTERNATIONAL:

MGK® Asia-Pacific Pty Ltd

Page: 2 of 7

Revision Date: 21/10/2011

PRODUCT CODE:

007443

EYES:

Causes 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).

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.

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.

EMERGENCY PHONE: MGK ASIA Pacific (Dennis Foster, Managing Director):

(02) 8850-0011

24 HOUR EMERGENCY PHONE (CHEMTREC) INTERNATIONAL:

IGK® Asia-Pacific Pty Ltd

Page: 3 of 7

Revision Date: 21/10/2011

PRODUCT CODE: 007443

6. ACCIDENTAL RELEASE MEASURES:

Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can SMALL SPILL:

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.

Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can LARGE SPILL:

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

Contaminated absorbent and wash water should be disposed of according to local, state, **WASTE DISPOSAL METHOD:**

and federal regulations.

7. HANDLING AND STORAGE

Wear chemically impervious gloves such as neoprene or nitrile. Take prudent precautions to avoid breathing HANDLING:

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

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

Mechanical ventilation should be used when handling this product in enclosed spaces. **ENGINEERING CONTROLS:**

Local exhaust ventilation may be necessary.

Not normally required. Use in well ventilated areas. RESPIRATORY PROTECTION:

Wear chemically impervious gloves such as neoprene or nitrile. SKIN PROTECTION:

Take prudent precautions to avoid contact with eyes. **EYE PROTECTION:**

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. Not established **BOILING POINT:** MELTING POINT: Not established

Partially miscible in water. SOLUBILITY IN WATER: 0.922 @ 20°C (68°F) SPECIFIC GRAVITY:

Not established COLOR, (GARDNER):

> 6.45 @ 5% in water. pH:

23.7 CPS @ 24°C (75.2°F) Brookfield VISCOSITY:

EMERGENCY PHONE: MGK ASIA Pacific (Dennis Foster, Managing Director):

(02) 8850-0011

24 HOUR EMERGENCY PHONE (CHEMTREC) INTERNATIONAL:

GK[®] Asia-Pacific Pty Ltd

Page: 4 of 7

Revision Date: 21/10/2011

PRODUCT CODE: 007443

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:

Stable.

INCOMPATIBILITY:

Strong acidic or alkaline materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

Not applicable. Will not occur

HAZARDOUS POLYMERIZATION:

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: REPRODUCTIVE: **TERATOGENICITY: MUTAGENICITY:**

Not established Not established Not established Not established

EMERGENCY PHONE: MGK ASIA Pacific (Dennis Foster, Managing Director): 24 HOUR EMERGENCY PHONE (CHEMTREC) INTERNATIONAL:

(02) 8850-0011

GK® Asia-Pacific Pty Ltd

Page: 5 of 7

Revision Date: 21/10/2011

PRODUCT CODE:

007443

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:

EELWATER

pyrethrins 0.01µg/litre rainbow trout 5.1ppb

FISH: LC50

>2000 mg/kg

BIRD: Acute oral LD50 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

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

RCRA

CERCLA RQ-VALUE

ID#:

Pyrethrins

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.

EMERGENCY PHONE: MGK ASIA Pacific (Dennis Foster, Managing Director):

(02) 8850-0011

24 HOUR EMERGENCY PHONE (CHEMTREC) INTERNATIONAL:

MGK® Asia-Pacific Pty Ltd

Page: 6 of 7

Revision Date: 21/10/2011

PRODUCT CODE:

007443

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

This product contains the following toxic chemicals of the subject to the reporting

REPORTABLE INGREDIENTS:

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.

\$24/25 Avoid contact with skin and eyes.

\$29 Do not empty into drains.

\$37 Wear suitable gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

EMERGENCY PHONE: MGK ASIA Pacific (Dennis Foster, Managing Director): 24 HOUR EMERGENCY PHONE (CHEMTREC) INTERNATIONAL:

(02) 8850-0011

sia-Pacific Pty Ltd

Page:

21/10/2011 Revision Date:

7 of 7

PRODUCT CODE: 007443

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

Flammability

1

Reactivity

1

The data contained herein is based on information currently available to MGK Company, and believed to be factual and the opinions expressed to be those of qualified experts; however, this data is not to be taken as a warranty or representation for which MGK Company assumes legal responsibility.

CONTACT Point:

Dennis Foster, Managing Director MGK® Asia-Pacific PTY Ltd. P.O. Box. 4730 North Rocks, Sydney 2151 Australia A.C.N. 085 882 382

Telephone: (61) 2 8850-0011 Facsimile: (61) 2 8850-0044

Material Safety Data Sheet prepared by T. Azzivitto

McLaughlin Gormley King Co. Phone: (0011)(1)(763) 544-0341 Facsimile: (0011)(1)(763) 544-6437

EMERGENCY PHONE: MGK ASIA Pacific (Dennis Foster, Managing Director):

24 HOUR EMERGENCY PHONE (CHEMTREC) INTERNATIONAL:

(02) 8850-0011