

SAFETY DATA SHEET

Issue Date: 09-Mar-2015 Revision Date: 09-Mar-2015 Version: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name: PyGanic® Crop Protection EC 1.4 II

EPA Registration Number: 1021-1771

Other means of identification

Part Code: 7443

Recommended use of the chemical and restrictions on use:

Recommended Use: An Insecticide for Organic Crop Protection.

Details of the supplier of the safety data sheet

Manufacturer Address: FAX #:

McLaughlin Gormley King Company (763) 544-6437

8810 10th Avenue North Minneapolis, MN 55427

Telephone Number: (800) 645-6466, or (763) 544-0341

e-Mail Address: mgk-sds@mgk.com

Emergency telephone numbers:

24 Hour TRANSPORTATION Emergency: CHEMTREC®: (800) 424-9300 **International:** (703) 527-3887

24 Hour MEDICAL Emergency: SafetyCall®: (888) 740-8712, or (952) 852-9509

Comments: MGK® Hours of operation are 8:00 am to 4:30 pm CST, 14:00 to 22:30 GMT.

For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to

(888) 740-8712, or (952) 852-9509.

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 3
Skin sensitization	Category 1

Label elements

Emergency Overview

WARNING

Hazard statements

H332 - Harmful if inhaled

· H316 - Causes mild skin irritation

H317 - May cause an allergic skin reaction

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H402 - Harmful to aquatic life

• H412 - Harmful to aquatic life with long lasting effects



Appearance: Clear, amber - brown Physical state: Liquid Odor: Sweet

Precautionary Statements - Prevention:

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P271 - Use only outdoors or in a well-ventilated area

Precautionary Statements - Response:

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P312 - Call a POISON CENTER or doctor/physician if you feel unwell

Hazards not otherwise classified (HNOC):

Not applicable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Pyrethrins	8003-34-7	1.4

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

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

4. FIRST AID MEASURES

Aspiration pneumonia hazard: • No information available

Description of first aid measures:

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove

contact lenses, if present, after the first 5minutes, then continue rinsing eye. Call a

poison control center or doctor for treatment advice.

Skin Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for

15-20 minutes. Call a poison control centeror doctor for treatment advice.

Ingestion: If swallowed, IMMEDIATELY call a poison control center or doctor 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 a doctor. Never give anything by

mouth to an unconscious person.

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Inhalation: Remove affected person to fresh air. If person is not breathing, call 911 or an

ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

Call a poison control center or doctor for further treatment advice.

Self-protection of the First

Responder:

Use personal protective equipment as required.

Note to physicians: For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid

exposure is topical application oftocopherol acetate (Vitamin E).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media:

Caution: Use of water spray when fighting fire may be inefficient.

Hazardous combustion products: Carbon monoxide. Carbon dioxide (CO2).

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact: None. Sensitivity to Static Discharge: None.

Protective equipment and precautions for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health hazards 2 Flammability 1 Instability 0 Physical and

Chemical Properties

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HMIS Health hazards 1 * Flammability 1 Physical hazards 0 Personal protection

X

Chronic Hazard Star Legend *= Chronic Health Hazard

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate personnel to safe areas. Keep people away from and upwind of

spill/leak. Use personal protective equipment as required.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Dam up. Soak up with inert absorbent material. Pick up and transfer to properly

labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Use with local exhaust ventilation. Use personal protective equipment as required.

Do not breathe dust/fume/gas/mist/vapors/spray. For more information, see

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product label.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep containers tightly closed in a cool, well-ventilated place. Keep in properly

labeled containers. For more information, see product label.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters

Exposure Guidelines: This product, as supplied, does not contain any hazardous materials with

occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Pyrethrins	TWA: 5 mg/m ³	TWA: 5 mg/m ³	IDLH: 5000 mg/m ³
8003-34-7	_	(vacated) TWA: 5 mg/m ³	TWA: 5 mg/m ³

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls: Safety showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection: Tight sealing safety goggles. Face protection shield.

Skin and body protection: Wear protective gloves and protective clothing.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA

approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local

regulations.

General Hygiene

When using do not eat, drink or smoke. Regular cleaning of equipment, work area

Considerations: and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Liquid

Appearance: Clear, amber - brown

Odor: Sweet

Odor threshold:

Color (Gardner Scale):

No information available

No information available

Property: Values: Comment: • Method

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pH: 6.45 @ 5% in H2O

Melting point / freezing point: No information available **Boiling point / boiling range:** No information available

Flash point: > 93.3 °C / > 200.0 °F Tag Closed Cup

Flame Extension Test:

Evaporation rate:

Flammability (solid, gas):

Upper flammability limit (UEL):

Lower flammability limit (LEL):

Vapor pressure:

No information available
No information available
No information available
No information available

Vapor density: Heavier than air.

Specific Gravity: No information available Partition coefficient; n-Octanol/ No information available

Water:

Autoignition temperature: No information available No information available No information available No information available

 Dynamic viscosity:
 23.7 cPs
 @ 24.0 °C

 Refractive Index:
 1.4593
 @ 25°C (77°F)

Other Information:

Density: 0.922 g/cm³ @ 20.0 °C

VOC Content (%):

Miscibility/ Solubility:

Water: Partially miscible

Alcohol: Miscible

Petroleum distillates: Partially miscible **Aromatic solvents:** Partially miscible

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials:

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide (CO2)

11. TOXICOLOGICAL INFORMATION

Numerical measures of toxicity - Product Information

Oral LD₅₀>2,000 mg/kg (rat)Dermal LD₅₀>2,000 mg/kg (rabbit)Inhalation LC₅₀>2.33 mg/L (rat; 4 hours)Eye contact:Irritation clearing in 72 hours.Skin Contact:Slight irritation at 72 hours.

Skin Irritation Index: 1.58

Sensitization: Positive.

Pyrethrins/ Pyrethrum:

Carcinogenicity/ Oncogenicity:

Slightly elevated incidences of benign tumors of the thyroid and liver were seen in rats following lifetime administration of high doses of Pyrethrins. Further detailed scientific studies into the mode of action responsible for these effects show that:

1) Because of biological species differences, the rat thyroid tumors are not

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relevant to humans.

2) The rat liver tumors occur in animals only at doses greatly exceeding human exposure levels and that cause cell proliferation (mitogenesis). Based on these data, the USEPA has classified Pyrethrins as "Not Likely to be Carcinogenic to Humans," at doses that do not cause a mitogenic response in the liver/ cell proliferation. Thus, Pyrethrins can be considered to be non-carcinogenic at exposure levels relevant to human use of Pyrethrins-containing products.

Carcinogenicity No information available.

Reproductive toxicity:
Developmental Toxicity
Teratogenicity:
STOT - single exposure:
STOT - repeated exposure:
Chronic toxicity:
No information available.
No information available.
No information available.
Avoid repeated exposure.
No information available.

Target Organ Effects: Central nervous system, Respiratory system, Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects: No information available

Environmental hazards (EPA):

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes:Disposal should be in accordance with applicable regional, national and local laws

and regulations. For more information, see product label.

Contaminated packaging: For more information, see product label.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)

UN/ID Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins)

Hazard Class: 9
Packing Group:

Reportable Quantity (RQ): Pyrethrins (1 Lb.)

Other Shipping Information: This material is **not** regulated as a hazardous material by the DOT in quantities

less than 71.4 Lbs.

Shipping name for quantities less than 71.4 Lbs.: Insecticides, Insect or Animal

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Repellent, Liquid

Air (IATA/ ICAO)

UN/ID Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins)

Hazard Class: 9
Packing Group: III

Vessel (IMO/ IMDG)

UN/ID Number: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins)

Hazard Class: 9
Packing Group: |||

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard

<u>Categories</u>

Acute health hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

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CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable	CWA - Toxic	CWA - Priority	CWA - Hazardous
	Quantities	Pollutants	Pollutants	Substances
Pyrethrins 8003-34-7	1 lb	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ):
Pyrethrins 8003-34-7	1 lb	-	RQ 1 lb final RQ RQ 0.454 kg final RQ

US State Regulations:

California Proposition 65:

This product does not contain any Proposition 65 chemicals

U.S. EPA Label Information:

EPA Registration Number: 1021-1771

Difference between SDS and EPA (FIFRA) Pesticide label:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

Signal word: CAUTION

Precautionary Statements:

- · Harmful if swallowed.
- · Harmful if absorbed through the skin.
- Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

International:

TSCA Does not comply DSL/NDSL Does not comply EINECS/ELINCS Complies

ENCS Does not comply IECSC Complies

KECL Complies
PICCS Does not con

PICCS Does not comply AICS Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.

Issue Date: Revision Date: Revision Note:

SDS Prepared By: Troy Azzivitto, MGK® Chemistry Department.

e-Mail Address: mgk-sds@mgk.com

<u>Disclaimer:</u> 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 betaken as a warranty or representation for which McLaughlin Gormley King

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Company assumes legal responsibility.

End of Safety Data Sheet.