

MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 007468

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Revision Date: 4/14/2009

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT CODE: 007468, EPA REG. NO.: 1021-1877
PRODUCT NAME: DRY PyGanic® PRO
PRODUCT DESCRIPTION: An insecticide dust/ powder For Organic Production.
CHEMICAL NAME: Mixture
SYNONYMS: 007468, DRY PyGanic® Insecticide
MANUFACTURER: McLaughlin Gormley King Company, 8810 Tenth Avenue North, Minneapolis MN. 55427
TELEPHONE M-F, 8:00-4:30 CST, 14:00-22:30 GMT: (800) 645-6466 or (763) 544-0341
MSDS & Product Information, 8:00-4:30 CST, 14:00-22:30 GMT: (800) 645-6466 or (763) 544-0341

24 HOUR EMERGENCY PHONE (CHEMTREC) (800)-424-9300 CHEMTREC (703) 527-3887
U.S. and CANADA: (ALL OTHER AREAS):

For information regarding **MEDICAL EMERGENCIES** or **PESTICIDE INCIDENTS**, call 24 hours a day at **1-888-740-8712**, or **1-952-852-9509** from outside of the USA.

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

CAUTION. Harmful if absorbed through the skin. Avoid contact with skin, eyes, and clothing.
Wear a long-sleeved shirt and long pants, shoes and socks.
Do not use or store near heat, sparks, open flame, or any other ignition sources.

EYES: Airborne dusts may cause temporary irritation, tearing, and blurred vision.
SKIN: May 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: May be harmful if swallowed.
INHALATION: Inhalation of airborne dusts may cause nasal and respiratory irritation.
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).

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(s)	CAS #	EINECS	EXPOSURE LIMITS	% BY WEIGHT
Pyrethrins	008003-34-7	232-319-8	5 mg/m ³ (OSHA, ACGIH)	1.00
Amorphous Silica	7631-86-9	231-545-4	20 ppm, 80 mg/m ³ (OSHA-TWA)	10←→15
Calcium Sulfate	10101-41-4	231-900-3	10 mg/m ³ (ACGIH-TWA)	75←→85

PEL = Permissible Exposure Limits.

TLV = Threshold Limit Value.

TWA = Time Weighted Average (8 hr).

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

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

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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.

NOTE TO PHYSICIANS: 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: >200 °F/ >93.3 °C **METHOD:** TAG Closed Cup.

This product is classified as a Non-Combustible solid.

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: Use foam, carbon dioxide, or dry chemical.

FIRE FIGHTING INSTRUCTIONS: Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream. Contain the run-off, if possible, for proper disposal.

6. ACCIDENTAL RELEASE MEASURES:

SMALL SPILL: Contain the spill (prevent this product from reaching surface waters or other water supplies). Sweep up the spill with sweeping compound and transfer into waste containers for disposal. Clean the spill area with detergent and water.

LARGE SPILL: Contain the spill (prevent this product from reaching surface waters or other water supplies). Sweep up the spill with sweeping compound and transfer into waste containers for disposal. Clean the spill area with detergent and water.

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

GENERAL PROCEDURES: Do not use or store near heat, sparks, open flame, or any other ignition sources.

HANDLING: Avoid contact with skin, eyes, and clothing. Wear a long-sleeved shirt and long pants, shoes and socks. 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 OUT OF REACH OF CHILDREN.

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

ENGINEERING CONTROLS: Turn off all vents and blowers. Do not enter or allow others to enter until dusts have settled.

RESPIRATORY PROTECTION: Not required.

SKIN PROTECTION: Take prudent precautions to avoid contact with skin and clothing. Wear a long-sleeved shirt and long pants, shoes and socks.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Off-white colored powder.

ODOR: Slight odor of pyrethrum.

PHYSICAL STATE: Free-flowing powder.

VAPOR PRESSURE: Not established

VOC: < 1%

VAPOR DENSITY: Not established

BOILING POINT: Not established

MELTING POINT: Not established

SOLUBILITY IN WATER: Immiscible in water.

BULK DENSITY: Packed Density = 0.64 g/cm³. Un-packed Density = 0.37 g/cm³

COLOR, (GARDNER): Not established

pH: Not applicable; Product not miscible in water.

VISCOSITY: Not established

REFRACTIVE INDEX: Not established

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:

EYE:	Primary eye irritation (rabbit):	Irritation clearing in 48 hours.
SKIN:	Primary skin irritation (rabbit):	No irritation observed. Irritation Index = 0.0
	Dermal Sensitization (Albino guinea pig):	Negative; Not a dermal sensitizer.
	Acute Dermal LD ₅₀ (Albino rabbit)	> 2.0 g/kg
INGESTION:	Acute Oral LD ₅₀ (Albino rat)	> 5.0 g/kg
INHALATION:	Acute Inhalation LC ₅₀ (rat)	> 5.40 mg/L Rats exposed for 4 hours to test atmosphere.

SUBCHRONIC:

DERMAL TOXICITY: 21-day repeated dose rabbit	Not established
INHALATION TOXICITY STUDY: 3 month rat	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	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:

- Because of biological species differences, the rat thyroid tumors are not relevant to humans;
- 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.

GENERAL COMMENTS:	Some or all of the toxicity data reported above was bridged from a substantially similar formula.
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12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: **For terrestrial uses:** This product is toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate. See Directions for Use on the product label for additional precautions and restrictions.

Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This pesticide is toxic to fish and other aquatic invertebrates. 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.

PERSISTENCE IN THE ENVIRONMENT

BIODEGRADATION: Unknown

CHEMICAL DEGRADATION: Unknown

TOXIC EFFECTS ON ORGANISMS:

FISH: LC₅₀ Not established. Pyrethrins are very toxic to fish and other aquatic invertebrates.

BIRD: Acute oral LD₅₀ Not established

TOXICITY TO USEFUL INSECTS:

HONEYBEE: LD₅₀ Not established

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: IF EMPTY: Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available.

IF PARTIALLY FILLED: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

RCRA / CERCLA HAZARDOUS WASTE:

INGREDIENT
Pyrethrins

RCRA ID#: **CERCLA RQ-VALUE**
1 Lb.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION

PROPER SHIPPING NAME: Environmentally Hazardous Substances, Solid, N.O.S., RQ (Pyrethrins)

HAZARD CLASS: 9

IDENTIFICATION NUMBER(UN or NA): UN 3077

PACKING GROUP: III

OTHER SHIPPING INFORMATION: This product is not regulated as hazardous by the DOT when Pyrethrin content is < 1 pound or less per shipping container (*i.e.*, 100 Lbs. per shipping container, or less).

Shipping name for quantities less than 100 Lbs. : Insecticides, Insect or Animal Repellents, Solid, N.O.S.

INTERNATIONAL TRANSPORTATION REGULATIONS:

ICAO / IATA DESCRIPTION: Environmentally Hazardous Substances, Solid, N.O.S., 9, UN3077, PG III, RQ (Pyrethrins)

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

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

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

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