

MATERIAL SAFETY DATA SHEET

MGK[®]
McLaughlin Gormley King Company
PRODUCT CODE: 007395

Page: 1 of 6
Revision Date: 1/12/04

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT CODE: 007395, EPA REG. NO.: 1021-1570
PRODUCT NAME: PYROCIDE® Mosquito Adulticiding Concentrate for ULV Fogging 7395
PRODUCT DESCRIPTION: Insecticide for use by Commercial or Governmental Mosquito Control Personnel.
CHEMICAL NAME: Not applicable
SYNONYMS: None
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) U.S. and CANADA:	(800)-424-9300	CHEMTREC (ALL OTHER AREAS):	(703) 527-3887
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For information regarding medical emergencies or pesticide incidents, call the International Poison Center at:
1-888-740-8712

2. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT(s)	CAS #	EXPOSURE LIMITS	EINECS	% BY WEIGHT
Pyrethrins	8003-34-7	5 mg/m ³ (OSHA, ACGIH)	232-319-8	12.0
Piperonyl Butoxide [Alpha-(2-(2-butoxyethoxy)ethoxy)-4,5-methylenedioxy-2-propyltoluene]	51-03-6	Not established	200-076-7	60.0
White Mineral Oil (Supplier recommended TWA/PEL)	8042-47-5	5 mg/m ³ (OSHA, ACGIH)	232-455-8	10←→20.0
Glycol Ethers	112-34-5	None established	203-961-6	2.40

PEL = Permissible Exposure Limits.
TLV = Threshold Limit Value.

TWA = Time Weighted Average (8 hr).
STEL = Short Term Exposure Limit (15 min.).

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

CAUTION. Harmful if swallowed or absorbed through the skin. Causes eye irritation. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or spray mists of this product. Contains petroleum distillates; Vomiting may pose an aspiration pneumonia hazard.

EYES: Causes eye irritation.
SKIN: Can cause skin irritation. Can cause a burning sensation on more sensitive areas (face, eyes, mouth). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
INGESTION: Harmful if swallowed. Vomiting may pose an aspiration pneumonia hazard.
INHALATION: Excessive inhalation can cause nasal and respiratory irritation.
CHRONIC EFFECTS: None known

ECOLOGICAL: See Section's 12 and 15.

TOXICOLOGICAL: See Section 11.

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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: Immediately call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. 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: This product contains Pyrethrins and Petroleum Distillates; Vomiting may pose an aspiration pneumonia hazard.
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 NOT classified as a combustible liquid by OSHA.

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 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 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: 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 actions 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 actions 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: Take prudent precautions to avoid contact with skin, eyes and clothing. 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.

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.

ELECTROSTATIC ACCUMULATION: This product contains petroleum distillates for which there is the potential for electrostatic accumulation. Proper grounding procedures should be used when transferring this material.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Golden-translucent colored liquid.
ODOR: Botanical pyrethrum odor.
PHYSICAL STATE: Liquid
VAPOR PRESSURE: Not established
VOC: < 15%
VAPOR DENSITY: Not established
BOILING POINT: Not established
MELTING POINT: Not established
SOLUBILITY IN WATER: Immiscible in water.
SPECIFIC GRAVITY: 0.987 @ 20°C (68°F)
COLOR, (GARDNER): 11.5
pH: Not established
VISCOSITY: 20 CPS @ 24°C (75.2°F)
REFRACTIVE INDEX: 1.4905 @ 25°C (77°F)

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 by Day 3.
SKIN:	Primary skin irritation (rabbit):	Slight irritation at 72 hours. Irritation Index = 1.21
	Dermal Sensitization (guinea pig):	A possible dermal sensitizer.
	Acute Dermal LD ₅₀ (rabbit)	> 2.0 g/kg
INGESTION:	Acute Oral LD ₅₀ (rat)	= 4.65 g/kg
INHALATION:	Acute Inhalation LC ₅₀ (rat)	> 5.43 mg/L. Rats exposed for 4 hours to test atmosphere.

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:
Py and PBO** 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.

Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for pyrethrum and PBO greatly exceeded potential human exposure from labeled uses.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This product is toxic to fish and other aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes. 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 into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

TOXIC EFFECTS ON ORGANISMS:

FISH: LC₅₀ Not established

BIRD: Acute oral LD₅₀ Not established

TOXICITY TO USEFUL INSECTS:

HONEYBEE: LD₅₀ Not established

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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 puncture and dispose of in a sanitary landfill or by other approved State and Local procedures.

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, Liquid, N.O.S., RQ (Pyrethrins)

HAZARD CLASS: 9

IDENTIFICATION NUMBER (UN or NA): UN 3082

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.*, 8.33 Lbs. per shipping container, or less).

INTERNATIONAL TRANSPORTATION REGULATIONS:

ICAO / IATA DESCRIPTION: Environmentally Hazardous Substances, Liquid, N.O.S., 9, UN3082, PG III, RQ (Pyrethrins)

IMO DESCRIPTION (IMDG CODE): Not considered hazardous by IMO Regulations for transportation via vessel.

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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:
112-34-5	Glycol Ethers	2.40
51-03-6	Piperonyl Butoxide	60.0

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 15% 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 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.

Material Safety Data Sheet prepared by T. Azzivitto

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