

MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 007396

Page: 1 of 7
Revision Date: 10/22/2003

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT CODE: 007396, **EPA REG. NO.:** 1021-1569
PRODUCT NAME: PYROCIDE® Mosquito Adulticiding Concentrate for ULV Fogging 7396
PRODUCT DESCRIPTION: Insecticide Concentrate used in ULV fogger.
CHEMICAL NAME: Not applicable
SYNONYMS: 7396, F07396, MGK® 7396
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
--	----------------	--	----------------

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 #	EINECS	EXPOSURE LIMITS	% BY WEIGHT
Pyrethrins	8003-34-7	232-319-8	5 mg/m ³ (OSHA, ACGIH)	5.00
Piperonyl Butoxide [Alpha-(2-(2-butoxyethoxy)ethoxy)-4,5-methylenedioxy-2-propyltoluene]	51-03-6	200-076-7	Not established	25.00
Paraffinic, Naphthenic solvent (Supplier recommended PEL)	64742-47-8	265-149-8	100ppm (525 mg/m ³) TWA	10 - 50
White Mineral Oil (Supplier recommended TWA/PEL)	8042-47-5	232-455-8	5 mg/m ³ (OSHA, ACGIH)	30 - 70

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

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

24 HOUR EMERGENCY PHONE (CHEMTREC): (800)-424-9300 **(ALL OTHER AREAS):** (703) 527-3887

MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 007396

Page: 2 of 7
Revision Date: 10/22/2003

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

CAUTION. OSHA-COMBUSTIBLE LIQUID. Do not use or store near heat, sparks, or open flame. Harmful if swallowed, inhaled, or absorbed through the skin. Causes eye irritation. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or spray mists of this product.

EYES: Can cause temporary irritation, tearing and blurred vision.

SKIN: Can cause a burning sensation on more sensitive areas (face, eyes, mouth).

INGESTION: Can cause stomach irritation, resulting in nausea, cramps and vomiting. Excessive ingestion can cause nervous system disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness.

INHALATION: Excessive inhalation can cause nasal and respiratory irritation.

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: If swallowed, call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person. Do not induce vomiting due to aspiration pneumonia hazard. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIANS: This product contains Petroleum Distillates and 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).

24 HOUR EMERGENCY PHONE (CHEMTREC): (800)-424-9300 **(ALL OTHER AREAS):** (703) 527-3887

MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 007396

Page: 3 of 7
Revision Date: 10/22/2003

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 189 °F/ 87.2 °C METHOD: Tag Closed-Cup.

This product is classified as a **COMBUSTIBLE** liquid.

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: not established.

UPPER FLAMMABLE LIMIT: not established.

AUTOIGNITION TEMPERATURE: not established.

SENSITIVE STATIC DISCHARGE: Yes, use proper bonding and/ or grounding procedures.

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: Shut off ignition sources. 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: Shut off ignition sources. 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.

24 HOUR EMERGENCY PHONE (CHEMTREC): (800)-424-9300 (ALL OTHER AREAS): (703) 527-3887

MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 007396

Page: 4 of 7
Revision Date: 10/22/2003

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, feed or food by storage, handling or disposal. Read and observe all precautions and instructions on the label.

STORAGE: **COMBUSTIBLE LIQUID.** Store containers upright and closed. Store in areas that are cool, dry and well-ventilated. Do not use or store near heat or open flame. Keep away from heat, 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: Clear, gold-amber color.
ODOR: Sweet solvent-smell.
PHYSICAL STATE: Liquid
VAPOR PRESSURE: Not established
VOC: < 14%
VAPOR DENSITY: Not established
BOILING POINT: Not established
MELTING POINT: Not applicable
SOLUBILITY IN WATER: Immiscible in Water.
SPECIFIC GRAVITY: 0.887 @ 20°C (68°F)
COLOR, (GARDNER): 10
pH: Not established
VISCOSITY: 15 CPS @ 25°C (77.0°F)
REFRACTIVE INDEX: 1.4676 @ 25°C (77.0°F)

24 HOUR EMERGENCY PHONE (CHEMTREC): (800)-424-9300 (ALL OTHER AREAS): (703) 527-3887

MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 007396

Page: 5 of 7
Revision Date: 10/22/2003

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:

EYE:	Primary eye irritation (rabbit):	Not established
SKIN:	Primary skin irritation (rabbit):	Not established
	Dermal Sensitization (guinea pig):	Not established
	Acute Dermal LD ₅₀ (rabbit)	Not established
INGESTION:	Acute Oral LD ₅₀ (rat)	Not established
INHALATION:	Acute Inhalation LC ₅₀ (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 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
----------------------------------	-----------------

24 HOUR EMERGENCY PHONE (CHEMTREC): (800)-424-9300 **(ALL OTHER AREAS):** (703) 527-3887

MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 007396

Page: 6 of 7
Revision Date: 10/22/2003

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: Not considered hazardous when Pyrethrin content is 1 pound or less per shipping container.

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

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.

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

SARA TITLE III:

SECTION 302: Not listed

SECTION 313: 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:

51-03-6 Glycol Ethers
Piperonyl Butoxide

% BY WEIGHT:

1.00 Max.

25.00

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS (VOC): This product does not exceed 14% VOC's..

24 HOUR EMERGENCY PHONE (CHEMTREC): (800)-424-9300 **(ALL OTHER AREAS):** (703) 527-3887

MATERIAL SAFETY DATA SHEET

MGK[®]

McLaughlin Gormley King Company

PRODUCT CODE: 007396

Page: 7 of 7
Revision Date: 10/22/2003

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