

MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 005628

Page: 1 of 7
Revision Date: 3/31/03

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT CODE: 005628
PRODUCT NAME: PYROCIDE® Fogging Concentrate 5628
PRODUCT DESCRIPTION: An insecticide for indoor use as a ULV fogger, space area, contact spray or thermal fog.
To be used by Trained Personnel Only.
CHEMICAL NAME: Mixture
SYNONYMS: F-5628, MGK 5628, Fogging Concentrate 5628
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 #	EINECS	EXPOSURE LIMITS	% BY WT.
MGK® 264 [N-Octyl bicycloheptene dicarboximide]	000113-48-4	204-029-1	Not established	10.00
Piperonyl Butoxide [Alpha-(2-(2-butoxyethoxy)ethoxy)-4,5-methylenedioxy-2-propyltoluene]	000051-03-6	200-076-7	Not established	6.00
Glycol Ethers	000112-34-5		None established	.24
Pyrethrum [Botanical Insecticide composed of the six constituents of pyrethrum(Pyrethrin I, Pyrethrin II, Cinerin I, Cinerin II, Jasmolin I and Jasmolin II)]	008003-34-7	232-319-8	5 mg/m ³ (OSHA, ACGIH)	3.00
Distillates (petroleum), hydrotreated light	064742-47-8	265-149-8	300 ppm supplier recommended	55-75

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

HUMAN: CAUTION

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

SKIN: CAUTION. Can cause a burning sensation on more sensitive areas (face, eyes, mouth). Prolonged or repeated exposure can cause irritation and reddening of the skin, possibly progressing into dermatitis.

INGESTION: CAUTION. Can cause stomach irritation, resulting in nausea, cramps and vomiting. Can cause nervous system disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness. Small amounts of this material may get into the lungs during ingestion or vomiting and may cause mild to severe lung injury.

INHALATION: CAUTION. Excessive inhalation can cause nasal and respiratory irritation, nausea and nervous disorders, such as fatigue, dizziness, headaches, lack of coordination, tremors and unconsciousness.

CHRONIC EFFECTS: None known

COMBUSTIBLE Liquid. Keep away from heat open flame and ignition sources. ALWAYS Wear safety glasses and the appropriate personal protective equipment when handling this material.

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MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 005628

Page: 2 of 7
Revision Date: 3/31/03

SAFETY: Eye and skin irritant. May be fatal if swallowed in large amounts.
Overexposure by eye contact may initially include eye irritation with discomfort, tearing, or blurring of vision.
Overexposure by skin contact may initially include a transient (several minutes up to approximately 24 hours) persistent burning or prickling sensation which may be accompanied by visible irritation or rash.
Overexposure by ingestion may initially include nonspecific discomfort, such as nausea, vomiting., headache, or weakness; temporary nervous system effects such as muscular weakness, tremors and incoordination.
Individuals with preexisting diseases of the liver, kidneys, skin or peripheral nervous system may have increased susceptibility to the toxicity of excessive exposures.

ECOLOGICAL: See sections 12 and 15.

See TOXICOLOGICAL INFORMATION (section 11)

4. FIRST AID MEASURES

FIRST AID PROCEDURES:

- EYES:** Immediately flush with large amounts of water for at least 15 minutes. If irritation persists, get medical attention.
- SKIN:** Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, get medical attention. Wash clothing separately before reuse.
- INHALATION:** Remove affected person to fresh air. Give oxygen, if necessary. If breathing has stopped, administer artificial respiration and seek medical attention immediately.
- INGESTION:** If swallowed, call a physician or poison control center immediately. DO NOT induce vomiting due to respiration pneumonia hazard. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIANS: None

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

FLASH POINT: 167 °F / 75 °C **METHOD:** Fisher 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.

HAZARDOUS COMBUSTION PRODUCTS: This product is classified as combustible under fire conditions it 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.

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MATERIAL SAFETY DATA SHEET

MGK[®]

McLaughlin Gormley King Company

PRODUCT CODE: 005628

Page: 3 of 7
Revision Date: 3/31/03

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.

7. HANDLING AND STORAGE

- HANDLING:** Wear neoprene or nitrile gloves. Wear OSHA-approved safety glasses, goggles or face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Wear a NIOSH approved organic respirator when handling the fogs, vapors and mists of this product. Do not contaminate water, feed or food 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, ignition sources and strong oxidizers. Emptied containers may retain product residues.
- 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 distillate 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 ingredients)
- ENGINEERING CONTROLS:** Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.
- RESPIRATORY PROTECTION:** Wear a NIOSH approved organic vapor respirator when handling vapors, fogs and mists of this product.
- SKIN PROTECTION:** Wear neoprene or nitrile gloves and protective clothing.
- EYE PROTECTION:** Wear an OSHA-approved safety glasses, goggles or face shield.

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MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 005628

Page: 4 of 7
Revision Date: 3/31/03

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Yellow colored liquid
ODOR: Odor of petroleum distillate
PHYSICAL STATE: Liquid
VAPOR PRESSURE: Not established
VAPOR DENSITY: Not established
BOILING POINT: Not established
MELTING POINT: Not applicable
SOLUBILITY IN WATER: Not miscible in water
SPECIFIC GRAVITY: .8210
COLOR, (GARDENER): 8.5
pH: Not applicable
VISCOSITY: Not Available.
REFRACTIVE INDEX: 1.4446 @ 25°C

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.
INCOMPATIBILITY: Not Compatible with strong acids or bases. Not compatible with strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Not applicable.
HAZARDOUS POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

ACUTE STUDIES:

INGESTION:

Acute Oral LD₅₀ (rat) >5.02 gm / kg

SKIN:

Acute Dermal LD₅₀ (rabbit) >2.0 gm / kg

Primary skin irritation (rabbit): Skin irritation index= 0.96

Dermal Sensitization (guinea pig): Not a dermal sensitizer

INHALATION:

Acute Inhalation LC₅₀ (rat) >8.40 mg / l

EYE:

Primary eye irritation(rabbit): Conjunctival irritation clearing in 1 hr.

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.

MATERIAL SAFETY DATA SHEET

MGK[®]

McLaughlin Gormley King Company

PRODUCT CODE: 005628

Page: 5 of 7
Revision Date: 3/31/03

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS:

This product is toxic to fish and other wildlife. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters. 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.

PERSISTENCE IN THE ENVIRONMENT

BIODEGRADATION: Unknown

CHEMICAL DEGRADATION: Unknown

TOXIC EFFECTS ON ORGANISMS: Unknown

FISH: LC₅₀ Not established

BIRD: LC₅₀ Not established

TOXICITY TO USEFUL INSECTS: Unknown

13. DISPOSAL CONSIDERATIONS

RCRA \ CERCLA HAZARDOUS WASTE:

INGREDIENT

Pyrethrum [Botanical Insecticide composed of the six constituents of pyrethrum (Pyrethrin I, Pyrethrin II, Cinerin I, Cinerin II, Jasmolin I and Jasmolin II)]

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

DISPOSAL METHOD: This product should be disposed of according to local, state and federal regulations. When disposing of waste or surplus, avoid contact with eyes and skin. Wear impervious gloves/clothing and chemical safety goggles. Do not wash into drains. Do not mix with other waste materials.

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MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 005628

Page: 6 of 7
Revision Date: 3/31/03

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION(DOT) INFORMATION: This product is not considered hazardous when Pyrethrin content is 1 pound or less per shipping container, i.e. 33.33 lbs. per shipping container for this product.

PROPER SHIPPING NAME: when shipping <33.33 lbs / shipping container	INSECTICIDES, INSECTS OR ANIMAL REPELLENTS, LIQUID, NOI, NMFC 102120-A
HAZARD CLASS:	N/A
IDENTIFICATION NUMBER(UN or NA):	N/A
PACKING GROUP:	N/A

PROPER SHIPPING NAME: [when shipping 33.33 or more lbs. per shipping container (approx. 5 gallon pail or more)]	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: (Hazardous for any quantity via Air)	Environmentally Hazardous Substances, Liquid, N.O.S., 9, UN3082, PG III, RQ (Pyrethrins)
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IMO DESCRIPTION (IMDG CODE):	Not Available.
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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:	% BY WEIGHT:
000051-03-6	Piperonyl Butoxide [Alpha-(2-(2-butoxyethoxy)ethoxy)-4,5-methylenedioxy-2-propyltoluene]	6.00
000112-34-5	Glycol Ethers	.24

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS (VOC): This Product contains no more than 8.0 % VOCs.

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MATERIAL SAFETY DATA SHEET



McLaughlin Gormley King Company

PRODUCT CODE: 005628

Page: 7 of 7
Revision Date: 3/31/03

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 sections 7 and 8 of this MSDS.

HMIS RATINGS:

Health	1
Flammability	2
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.A. Lennan