

MATERIAL SAFETY DATA SHEET



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 MSDS Ref. No: 60-6
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 Revision No: 1

EVERGREEN® Crop Protection EC 60-6

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: EVERGREEN® Crop Protection EC 60-6
PRODUCT DESCRIPTION: Multi-Purpose Insecticide for use on growing crops.
PRODUCT CODE: 007448, EPA REG. NO. : 1021-1770

MANUFACTURER

McLaughlin Gormley King Company
 8810 10th Avenue North
 Minneapolis, MN 55427
Product Stewardship: (763) 544-0341
Customer Service: (800) 645-6466

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC U.S. and CANADA: (800) 424-9300
CHEMTREC All Other Areas: (703) 527-3887
Emergency Phone: (888) 740-8712

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

For information regarding MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call the INTERNATIONAL POISON CENTER 24 hours a day at 1-888-740-8712 .

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt.%</u>	<u>CAS#</u>	<u>EINECS#</u>
Pyrethrins	6	008003-34-7	232-319-8
Piperonyl Butoxide	60	000051-03-6	200-076-7
Glycol Ethers	<3	000112-34-5	203-961-6
Petroleum Distillates	5 - 15	064742-47-8	265-149-8

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

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: CAUTION. OSHA-COMBUSTIBLE LIQUID. Do not use or store near heat, sparks, open flame, or any other ignition sources. Causes eye irritation. Harmful if swallowed, inhaled, or absorbed through the skin. Contains petroleum distillates; Vomiting may pose an aspiration pneumonia hazard. Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or spray mists of this product. Wear OSHA-approved safety glasses, safety goggles, or a full face-shield. Wear a long-sleeved shirt and long pants, socks plus shoes, and chemical-resistant gloves such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton.

POTENTIAL HEALTH EFFECTS

EYES: Causes eye irritation.

SKIN: Can 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: Harmful if swallowed. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe lung injury.

INHALATION: Harmful if inhaled.

CHRONIC: None known.

COMMENTS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

4. FIRST AID MEASURES

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.

INGESTION: If swallowed, 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 a doctor. Never give anything by mouth to an unconscious person.

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.

NOTES TO PHYSICIAN: 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

FLASHPOINT AND METHOD: 74.4°C (166°F)TAG Closed Cup

FLAMMABLE CLASS: OSHA-COMBUSTIBLE LIQUID

EXTINGUISHING MEDIA: Foam, carbon dioxide or dry chemical.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions this product will support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides.

FIRE FIGHTING PROCEDURES: 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.

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.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Contains Pyrethrins, which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state, and federal regulations.

7. HANDLING AND STORAGE

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

HANDLING: Wear OSHA-approved safety glasses, safety goggles, or a full-face shield. Wear chemically impervious gloves such as Neoprene or Nitrile. Wear a long-sleeved shirt, long pants, shoes plus socks. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is

not normally required when handling this product, but recommended in the absence of proper 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 in a cool, dry place. Keep container closed. Do not use or store near heat, open flame, ignition sources, or near strong acids, bases, and oxidizers. Emptied containers may retain product residues.

KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

<u>Chemical Name</u>	<u>EXPOSURE LIMITS</u>					
	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>Supplier OEL</u>	
	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>
Pyrethrins	TWA	5		5		
Piperonyl Butoxide	TWA	None	None		None	
Glycol Ethers	TWA	None	None		None	
Petroleum Distillates	TWA				100	525

ENGINEERING CONTROLS: Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear OSHA-approved safety glasses with side-shields, safety goggles, or a full-face shield.

SKIN: Wear chemically impervious gloves such as Neoprene or Nitrile and protective clothing.

RESPIRATORY: Wearing a respirator is not normally required when handling this product. Use in well ventilated areas. Take prudent precautions to avoid breathing vapors and/ or spray mists of this product.

PROTECTIVE CLOTHING: Wear chemically-resistant gloves, shoes and socks, long pants, and a long-sleeved shirt.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT, OR 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, or using the toilet.

OTHER USE PRECAUTIONS: AGRICULTURAL USE REQUIREMENTS:

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR, Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about personal protective equipment (PPE), and restricted-entry interval. The requirements listed below only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls;
- Chemical-resistant gloves, such as Barrier Lamine, Nitrile Rubber, Neoprene Rubber, or Viton;
- Shoes plus socks;

Protective eyewear.

COMMENTS: NON-AGRICULTURAL USE REQUIREMENTS:

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Sweet aromatic odor.

APPEARANCE: Clear, amber-brown colored liquid.

COLOR: 6.5 on Gardner Scale

pH: 5.30@ 5% in water.

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Heavier than air.

BOILING POINT: Not Available

FREEZING POINT: Not Available

MELTING POINT: Not Available

SOLUBILITY IN WATER: Immiscible in water

EVAPORATION RATE: Not Available

DENSITY: Not Available

SPECIFIC GRAVITY: 1.015 (Water = 1) Hydrometer @ 20°C (68°F)

VISCOSITY: 42.17CPS at 23°C (73.4°F) Brookfield

(VOC): <11 %

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Not compatible with strong acids or bases. Not compatible with strong oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: >2.0 gm/kg

Albino rabbit.

ORAL LD₅₀: >5.0 gm/kg

Albino rat.

INHALATION LC₅₀: >2.71 mg / L

Rats exposed for 4 hours to test atmosphere.

EYE EFFECTS: Irritation present at 21 days.

SKIN EFFECTS: No irritation at 72 hours. Irritation Index = 1.25. All irritation cleared by 72 hours.

SENSITIZATION: Negative; Not considered to be a dermal sensitizer to albino guinea pigs.

COMMENTS: 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-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 PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceed anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Environmental data not available for this product.

ECOTOXICOLOGICAL INFORMATION: This pesticide is highly toxic to fish. 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. Drift from treated areas may be hazardous to organisms in adjacent aquatic sites. 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 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.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

EMPTY CONTAINER: Triple rinse (or equivalent) and offer for recycling or reconditioning, or dispose of in a sanitary landfill or by other procedures approved by State and Local authorities.

RCRA/EPA WASTE INFORMATION: This product contains the following RCRA/CERCLA Hazardous wastes/substances:

Component, RCRA ID#, Cercla RQ

Pyrethrins, N/A, 1 Lb.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Environmentally Hazardous Substance, Liquid, N.O.S. RQ(Pyrethrins)

PRIMARY HAZARD CLASS/DIVISION: 9

UN/NA NUMBER: UN3082

PACKING GROUP: III

REPORTABLE QUANTITY (RQ) UNDER CERCLA: 1 Lb.

OTHER SHIPPING INFORMATION: This material is not regulated as a hazardous material by the DOT in quantities less than 16.67 Lbs.

Shipping name for quantities less than 16.67 Lbs. :

Insecticides, Insect or Animal Repellents, Liquid, N.O.S.

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Environmentally Hazardous Substance, Liquid, N.O.S. RQ(Pyrethrins)

PRIMARY HAZARD CLASS/DIVISION: 9

UN/NA NUMBER: UN3082

PACKING GROUP: III

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Not Available

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: YES PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES

313 REPORTABLE INGREDIENTS:

COMPONENT, CAS#, Max %

Piperonyl Butoxide, 000051-03-6, 60.0

Glycol Ethers, 000113-34-5, 3.00

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 11% VOC's.

16. OTHER INFORMATION

REVISION SUMMARY Revision #: 1 This MSDS replaces the December 18, 2001 MSDS. Any changes in information are as follows: In Section 1 Product Code Prepared By [] Print CHEMTREC Phone Number 24 Hour Emergency Phone Numbers In Section 2 Emergency Overview - Immediate Concerns Chronic Effects Potential Health Effects - Eyes Potential Health Effects - Skin Potential Health Effects - Skin Absorption Potential Health Effects - Inhalation Potential Health Effects - Ingestion In Section 4 Notes to Physician In Section 5 Sensitive Static Discharge In Section 7 Handling Storage In Section 8 Respiratory Protection Other Use Precautions Clothing Protection Section 8 Footnotes In Section 9 Appearance Color Odor (Group Field) for Vapor Pressure Density (Group Field) for Freezing Point (Group Field) for Melting Point (Group Field) for Water Solubility (Group Field) for Density VOC (Unit) Specific Gravity Method Specific Gravity °C (Group Field) for Evaporation Rate (Group Field) for Viscosity Viscosity (From) Viscosity (Unit) Viscosity Method Viscosity °F Viscosity °C (VOC) (wt%) (Operator) VOC (From) In Section 11 Eye Effects Skin Effects Dermal LD50 (Value) Dermal LD50 (Unit) Sensitization Oral LD50 (Value) Oral LD50 (Unit) Acute In Section 12 Environmental Data Ecotoxicological Information In Section 13 Empty Container RCRA/USPA Waste Information In Section 14 DOT UN/NA Number DOT Packing Group Other DOT Shipping Information DOT_RQ_UNT Not Found In Section 15 Chronic Regulations: State In Section 16 Section 16 Footnotes

HMIS RATING

HEALTH:	<input type="checkbox"/>	1
FLAMMABILITY:	<input type="checkbox"/>	2
PHYSICAL HAZARD:	<input type="checkbox"/>	1
PERSONAL PROTECTION:		

HMIS RATINGS NOTES: We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 7 and 8 of this MSDS.

COMMENTS: 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.

MSDS Prepared by T. Azzivitto