

# MATERIAL SAFETY DATA SHEET



**Date-Issued:** 11/04/2005  
**MSDS Ref. No:** 002864  
**Date-Revised:** 11/04/2005  
**Revision No:** New MSDS

## Permethrin PRO

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Permethrin PRO  
**PRODUCT DESCRIPTION:** An Insecticide Concentrate for Application by Trained Personnel Only.  
**PRODUCT CODE:** 002864, EPA REG. NO. : 1021-1836

#### 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 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>
Permethrin	36.8	052645-53-1	258-067-9
Petroleum Distillates	<10	64742 -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. The acute toxicological properties of this formulation have not yet been investigated. Use caution when handling. May cause skin and eye irritation. Wear OSHA-approved safety glasses, safety goggles, or a full face-shield when handling this material. Avoid contact with skin, eyes, and clothing.

Wear chemically impervious gloves such as Neoprene or Nitrile.

Harmful if swallowed. May be harmful if inhaled. Avoid breathing vapors or spray mists of this product.

#### POTENTIAL HEALTH EFFECTS

**EYES:** May cause eye injury.

**SKIN:** Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth).

**SKIN ABSORPTION:** May be harmful if absorbed through the skin.

**INGESTION:** Harmful if swallowed.

**INHALATION:** Excessive inhalation may be irritating to the respiratory tract.

**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:** For skin effects, a highly efficient therapeutic agent for pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

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## 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** > 93.3°C (200°F)TAG Closed Cup

**FLAMMABLE CLASS:** This product is NOT classified as flammable or combustible by OSHA.

**EXTINGUISHING MEDIA:** Foam, carbon dioxide or dry chemical.

**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 Oxide's. Chlorine gas and Hydrogen Chloride may also be formed under fire conditions.

**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.

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## 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 such as sand, or vermiculite. 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, storage tanks, etc., via drains, pumps, etc. Absorb with appropriate absorbent such as sand or vermiculite. Clean spill area of residues and absorbent.

### ENVIRONMENTAL PRECAUTIONS

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

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## 7. HANDLING AND STORAGE

**HANDLING:** Wear chemically impervious gloves such as Neoprene or Nitrile. Wear OSHA-approved safety glasses with side shields, safety goggles, or a full-face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Use in well ventilated areas. Wearing a respirator is not normally required when handling this product, however it is recommended in the presence of vapors or mists of this product, or in 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:** Store in a cool, dry place. Keep container closed.

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/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>
Permethrin	TWA None		None		10	
Petroleum Distillates	TWA None		None		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 chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber or Viton, and wear 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 mists of this product. In the absence of proper mechanical ventilation or where exposure limits are exceeded, wear a NIOSH-approved organic vapor respirator.

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**APPEARANCE:** Amber viscous liquid.

**pH:** 5.9@ 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:** Not Determined

**SPECIFIC GRAVITY:** 1.03 (Water = 1) at 20°C (68°F)

**(VOC):** <6 %

## 10. STABILITY AND REACTIVITY

**STABLE:** YES

**HAZARDOUS POLYMERIZATION:** NO

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** May decompose under fire or extreme temperatures to give off toxic Chlorine gas, Hydrogen Chloride, as well as Carbon Monoxide, Carbon Dioxide, and Nitrogen Oxides.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE**

Acute toxicological data not available.

**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.

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**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** Environmental data not available for this product.

**ECOTOXICOLOGICAL INFORMATION:** This product is extremely toxic to fish and aquatic organisms. 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.

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

**RCRA/EPA WASTE INFORMATION:** None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)

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**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**OTHER SHIPPING INFORMATION:** This material is not regulated by the DOT as a hazardous material when shipped in Non-Bulk quantities (i.e., less than 119 Gallon's / 450 Liter's).

When shipping in Bulk-quantities (i.e., more than 119 Gallon's / 450 Liter's), please contact MGK® for the proper shipping description.

**AIR (ICAO/IATA)**

**PROPER SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**VESSEL (IMO/IMDG)**

**PROPER SHIPPING NAME:** Not Available

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**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)****311/312 HAZARD CATEGORIES:**

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

**313 REPORTABLE INGREDIENTS:**

COMPONENT, CAS#, Max %

Permethrin, 052645-53-1, 40.0

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

**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 6% VOC's.

**16. OTHER INFORMATION**

**REVISION SUMMARY** New MSDS

**HMIS RATING**

<b>HEALTH:</b>	<b>2</b>
<b>FLAMMABILITY:</b>	<b>1</b>
<b>PHYSICAL HAZARD:</b>	<b>1</b>
<b>PERSONAL PROTECTION:</b>	

**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