

Date Issued: 01/24/2008 MSDS No: CIRRUS™ Date-Revised: 07/23/2008

**Revision No: 1** 

## **CIRRUS™ Fogging Concentrate**

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** CIRRUS™ Fogging Concentrate

PRODUCT DESCRIPTION: An Insecticide for use as a ULV, Space, Area, Contact Spray, or Thermal Fog.

PRODUCT CODE: 002651, EPA REG. NO.: 1021-1812

ACTIVE INGREDIENT(S): Prallethrin (ETOC®); Piperonyl Butoxide; MGK®-264 (N-Octyl Bicycloheptene Dicarboximide)

### **MANUFACTURER**

### 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

McLaughlin Gormley King Company 8810 10th Avenue North Minneapolis MN 55427

**Product Stewardship:** (888) 740-8712 **Alternate Emergency Phone:** (952) 852-9509

**Service Number:** (763) 544-0341

Alternate Customer Service: (800) 645-6466

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. 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. Harmful if absorbed through the skin or inhaled. Avoid contact with skin and clothing. Avoid breathing vapors or spray mists of this product. Contains petroleum distillates - Vomiting may cause aspiration pneumonia.

Wear a NIOSH-approved respirator when applying this product as a space spray. See Section 7 (Handling) or Section 8 (Personal Protective Equipment) for detailed respirator specifications.

### POTENTIAL HEALTH EFFECTS

**EYES:** May cause temporary irritation, tearing, and blurred vision.

**SKIN:** Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**SKIN ABSORPTION:** Harmful if absorbed through the skin.

**INGESTION:** May be 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.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

CHRONIC EFFECTS: None known.

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



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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Prallethrin (ETOC®)	2	023031-36-9	245-387-9
Piperonyl Butoxide	4	000051-03-6	200-076-7
MGK®-264 (N-Octyl Bicycloheptene Dicarboximide)	6.67	000113-48-4	204-029-1
Petroleum Distillates	75 - 90	64742-47-8	265-149-8

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

#### 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 contol 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 Pyrethroids and Petroleum Distillates; vomiting may pose an aspiration pneumonia hazard.

For skin effects, a highly efficient therapeutic agent for pyrethroid exposure is topical application of Tocopherol Acetate (Vitamin E).

#### 5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: 78.9°C (174°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.

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

### 6. ACCIDENTAL RELEASE MEASURES



Date Issued: 01/24/2008 MSDS No: CIRRUS™ Date-Revised: 07/23/2008

Revision No: 1

## **CIRRUS™ Fogging Concentrate**

**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 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.

### 7. HANDLING AND STORAGE

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

**HANDLING:** When applying this product as a space spray, wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/ NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/ NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P or HE prefilter.

Take prudent precautions to avoid contact with skin, eyes, and clothing. 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, well-ventilated place. Keep container closed. Do not use or store near heat, sparks, open flame, any ignition sources, or near strong acids, bases, and oxidizers. Emptied containers may retain product residues.

KEEP OUT OF REACH OF CHILDREN.

**ELECTROSTATIC ACCUMULATION HAZARD:** This product contains petroleum distillates for which there is potential for the accumulation of static electricity. Consideration should be given to bonding and grounding of equipment during loading, unloading, and transfer of this product.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION



Date Issued: 01/24/2008 MSDS No: CIRRUS™ Date-Revised: 07/23/2008

**Revision No: 1** 

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#### **EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)										
		EXPOSURE LIMITS								
		OSHA PEL		ACGIH TLV		SupplierOEL				
Chemical Name		ppm	mg/m³	ppm	mg/m³	ppm	mg/m³			
Prallethrin (ETOC®)	TWA	None		None		None				
Piperonyl Butoxide	TWA	None		None		None				
MGK®-264 (N-Octyl Bicycloheptene Dicarboximide)	TWA	None		None		None				
Petroleum Distillates	TWA					152 <sup>[1]</sup>	1200 [1]			

### **OSHA TABLE COMMENTS:**

1. Based on total hydrocarbon composition.

**ENGINEERING CONTROLS:** Ventilate treatment area thoroughly before re-entry.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Take prudent precautions to avoid contact with eyes. **SKIN:** Take prudent precautions to avoid contact with skin and clothing.

**RESPIRATORY:** Wear a pesticide respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides (MSHA/ NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/ NIOSH approval number prefix TC-14G), or a NIOSH-approved respirator with an organic vapor (OV) removing cartridge or canister with any R, P, or HE prefilter.

**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

**ODOR:** Odor of Petroleum Distillates.

APPEARANCE: Clear, light-amber liquid.

COLOR: 2.5 on Gardner Scale.

**pH:** Not Applicable

VAPOR DENSITY: Heavier than air.

FREEZING POINT: Not Available

FLASHPOINT AND METHOD: 78.9 °C (174 °F) TAG Closed Cup

SOLUBILITY IN WATER: Immiscible in water.



Date Issued: 01/24/2008 MSDS No: CIRRUS™ Date-Revised: 07/23/2008

**Revision No: 1** 

## **CIRRUS™ Fogging Concentrate**

**SPECIFIC GRAVITY:** 0.810 (Water = 1) at  $20^{\circ}$ C (68°F) VISCOSITY #1: 10.0 CPS at 23 °C (73.4 °F) Brookfield

(VOC): < 1.000 %

### 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 LD**<sub>50</sub>: > 2.0 gm/kgNotes: Albino rabbit. **ORAL LD<sub>50</sub>:** > 5.0 gm/kg Notes: Albino rat.

INHALATION LC<sub>50</sub>: > 3.12 mg/L

Notes: Rats exposed for 4 hours to test atmosphere.

EYE EFFECTS: Irritation clearing in 24 hours.

**SKIN EFFECTS:** No irritation at 72 hours. Irritation Index = 0.29

**SENSITIZATION:** Positive

**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.

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 product is toxic to fish, birds, and other wildlife. Do not apply directly to water. Do not contaminate water when disposing of equipment wash waters.

### 13. DISPOSAL CONSIDERATIONS



Date Issued: 01/24/2008 MSDS No: CIRRUS™ Date-Revised: 07/23/2008

Revision No: 1

## **CIRRUS™ Fogging Concentrate**

**DISPOSAL METHOD:** Wastes resulting from the use of this product must 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 container in a sanitary landfill, or by other procedures approved by State and Local authorities.

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

#### 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)

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

PRIMARY HAZARD CLASS/DIVISION: Non-Hazardous

VESSEL (IMO/IMDG)

SHIPPING NAME: Not Available

#### 15. REGULATORY INFORMATION

#### **UNITED STATES**

### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

FIRE: Yes PRESSURE GENERATING: No REACTIVITY: No ACUTE: Yes

## 313 REPORTABLE INGREDIENTS:

COMPONENT, CAS#, Max %

Piperonyl Butoxide, 000051-03-6, 4.00

#### 302/304 EMERGENCY PLANNING

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

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



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Revision No: 1

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inventory reporting requirements.

### **REGULATIONS**

STATE REGULATIONS
VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains less than 1% VOC's.

### 16. OTHER INFORMATION

**REVISION SUMMARY:** Revision #: 1 This MSDS replaces the January 24, 2008 MSDS. Any changes in information are as follows: In Section 9 (Group Field) for Water Solubility In Section 11 Sensitization (skin and respiratory) In Section 16 HMIS Health

### **HMIS RATING**



**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