

# MATERIAL SAFETY DATA SHEET



Date Issued: 06/10/2009  
MSDS No: ALTOCIRRUS

## alto CIRRUS™ Fogging Concentrate

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** alto CIRRUS™ Fogging Concentrate

**PRODUCT DESCRIPTION:** An Insecticide Concentrate for use in ULV Fogging.

**PRODUCT CODE:** 002927, EPA REG. NO. : 1021-1875

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

#### MANUFACTURER

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

#### 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. 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. Avoid contact with skin, eyes, and clothing. Contains petroleum distillates - Vomiting may cause aspiration pneumonia.

Wear a long-sleeved shirt and long pants, shoes and socks.

Wear chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton.

Wear a MSHA/ NIOSH-approved respirator when applying this product as a space spray or fog. 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).

**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:** Excessive inhalation of mists can cause nasal and respiratory irritation.

#### 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®)	0.67	023031-36-9	245-387-9
Piperonyl Butoxide	2	000051-03-6	200-076-7
MGK®-264 (N-Octyl Bicycloheptene Dicarboximide)	3	000113-48-4	204-029-1
Petroleum Distillates	75 - 95	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 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:** This product contains petroleum distillates and poses an aspiration pneumonia hazard.

### 5. FIRE FIGHTING MEASURES

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

**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 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

**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.

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**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.

### 7. HANDLING AND STORAGE

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

**HANDLING:** Wear chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton. Wear a long-sleeved shirt and long pants, shoes and socks.

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.

Do not contaminate water, food or feedstuffs, by storage, handling, or by disposal. Read and observe all precautions and instructions on the label.

**STORAGE:** Store in a cool, dry place. Keep container closed. Always store pesticides in the original container. Store away from food and pet-food.

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

#### EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
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 [1]	1200 [1]
<b>OSHA TABLE COMMENTS:</b>							
1. Based on total hydrocarbon composition.							

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

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### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Take prudent precautions to avoid contact with eyes.

**SKIN:** Wear chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton, and wear protective 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.

**PROTECTIVE CLOTHING:** Wear a long-sleeved shirt and long pants, shoes and socks.

**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:** Sweet surfactant odor.

**APPEARANCE:** Clear, yellow-colored liquid.

**COLOR:** 1.0 on Gardner Scale.

**pH:** Not Applicable

**VAPOR DENSITY:** Heavier than air.

**FREEZING POINT:** Not Available

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

**SOLUBILITY IN WATER:** Immiscible in water.

**SPECIFIC GRAVITY:** Not Determined

**VISCOSITY #1:** 10 CPS at 22.8°C (73.0°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**

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**DERMAL LD<sub>50</sub>:** > 2.0 gm/kg

**Notes:** 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 less than 24 hours.

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

**SENSITIZATION:** Positive

**GENERAL COMMENTS:** Some or all of the toxicity data reported above was bridged from a substantially similar formula.

**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 exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.

### 12. ECOLOGICAL INFORMATION

**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 washwaters.

### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** To avoid wastes, use all material in the container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (NOTE: such programs are often run by state or local governments, or by industry).

**EMPTY CONTAINER:** Non-refillable container. DO NOT reuse or refill this container.

Triple-rinse container (or equivalent) promptly after emptying. Then, offer for recycling if available, or puncture and dispose of container in a sanitary landfill.

Triple-rinse as follows for containers of 5 gallons (18.9 Liters) or less: Empty the remaining contents into application equipment or a mix-tank and drain for 10 seconds after the flow begins to drip. Fill the container <sup>1</sup>/<sub>4</sub> full with water and re-cap. Shake for 10 seconds. Pour rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**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)

### 14. TRANSPORT INFORMATION

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### 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:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** Yes

#### 313 REPORTABLE INGREDIENTS:

COMPONENT, CAS#, Max %

Piperonyl Butoxide, 000051-03-6, 2.00

#### 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 inventory reporting requirements.

### REGULATIONS

#### STATE REGULATIONS

**VOLATILE ORGANIC COMPOUNDS (VOC):**

This product contains less than 1% VOC's.

## 16. OTHER INFORMATION

**REVISION SUMMARY:** New MSDS

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### HMIS RATING

HEALTH:	2
FLAMMABILITY:	1
PHYSICAL HAZARD:	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