



# SAFETY DATA SHEET

Issue Date: 25-Oct-2016

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Version: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product Name:** alto CIRRUS® Fogging Concentrate  
**EPA Registration Number:** 1021-1875

### Other means of identification

**Part Code:** 2927

### Recommended use of the chemical and restrictions on use:

**Recommended Use:** Insecticide.

### Details of the supplier of the safety data sheet

**Manufacturer Address:** McLaughlin Gormley King Company  
8810 10th Avenue North  
Minneapolis, MN 55427  
**Telephone Number:** (800) 645-6466, or (763) 544-0341  
**e-Mail Address:** mgk-sds@mgk.com

**FAX #:** (763) 544-6437

### Emergency telephone numbers:

**24 Hour TRANSPORTATION Emergency:** CHEMTREC®: (800) 424-9300  
**International:** (703) 527-3887

**24 Hour MEDICAL Emergency:** SafetyCall®: (888) 740-8712, or (952) 852-9509

**Comments:** MGK® Hours of operation are 8:00 a.m. to 4:30 p.m. CST, 14:00 to 22:30 GMT.  
For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to  
(888) 740-8712, or (952) 852-9509.

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status:**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Aspiration toxicity	Category 1

### Label elements

#### Emergency Overview

### **DANGER**

#### **Hazard statements**

- H304 - May be fatal if swallowed and enters airways
- H332 - Harmful if inhaled
- H317 - May cause an allergic skin reaction

- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects



**Appearance:** Clear , Yellow / Golden  
Liquid

**Physical state:** Liquid

**Odor** Sweet Odor

#### Precautionary Statements - Prevention:

- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P271 - Use only outdoors or in a well-ventilated area  
 P272 - Contaminated work clothing should not be allowed out of the workplace  
 P280 - Wear protective gloves

#### Precautionary Statements - Response:

- P321 - Specific treatment (see Section 4/ First Aid).  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention  
 P363 - Wash contaminated clothing before reuse  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 P331 - Do NOT induce vomiting

#### Precautionary Statements - Storage:

- P405 - Store locked up  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

#### Precautionary Statements - Disposal:

- P501 - Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC):

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

### 3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Prallethrin (ETOC®)	23031-36-9	0.67
Piperonyl Butoxide (PBO)	51-03-6	2.00
MGK®-264 Insecticide Synergist (n-Octyl bicycloheptene dicarboximide)	113-48-4	2.87
Petroleum distillates, hydrotreated light	64742-47-8	90<--->95 *

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

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

### 4. FIRST AID MEASURES

**Aspiration pneumonia hazard:** • May be fatal if swallowed and enters airways.

**Description of first aid measures:**

- Eye contact:** 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 Contact:** 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.
- Self-protection of the First Responder:** Use personal protective equipment as required.
- Note to physicians:** Contains petroleum distillates – vomiting may cause aspiration pneumonia.  
  
For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:**

Caution: Use of water spray when fighting fire may be inefficient.

**Hazardous combustion products:** Carbon monoxide, Carbon dioxide (CO2).

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact:** None.

**Sensitivity to Static Discharge:** None.

**Protective equipment and precautions for firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health hazards 2	Flammability 1	Instability 0	Physical and Chemical Properties
<u>HMIS</u>	Health hazards 2	Flammability 1	Physical hazards 0	- Personal protection X

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Environmental precautions:** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

**Methods and material for containment and cleaning up**

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up:** Pick up and transfer to properly labeled containers. Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Dam up. Soak up with inert absorbent material.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling:** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. For more information, see product label.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions:** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers. For more information, see product label.

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines:** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Supplier OEL
Petroleum distillates, hydrotreated light 64742-47-8	-	-	-	TWA: 100 ppm TWA: 525 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls:** Safety showers  
Eyewash stations  
Ventilation systems

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection:</b>	Protective eyewear is recommended, but is not required.
<b>Skin and body protection:</b>	Wear protective gloves and protective clothing.
<b>Respiratory protection:</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>General Hygiene Considerations:</b>	When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

<b>Physical state:</b>	Liquid	
<b>Appearance:</b>	Clear , Yellow / Golden Liquid	
<b>Odor</b>	Sweet Odor	
<b>Odor threshold:</b>	No information available	
<b>Color (Gardner Scale):</b>	1	
<b>Property:</b>	<b>Values:</b>	<b>Comment: • Method</b>
<b>pH:</b>	---	Not applicable; immiscible in water.
<b>Melting point / freezing point:</b>	No information available	
<b>Boiling point / boiling range:</b>	No information available	
<b>Flash point:</b>	> 93.3 °C / > 200.0 °F	Tag Closed Cup;
<b>Evaporation rate:</b>	No information available	
<b>Flammability (solid, gas):</b>	No information available	
<b>Upper flammability limit (UEL):</b>	No information available	
<b>Lower flammability limit (LEL):</b>	No information available	
<b>Vapor pressure:</b>	No information available	
<b>Vapor density:</b>	No information available	
<b>Specific Gravity:</b>	No information available	
<b>Water solubility:</b>	No information available	
<b>Partition coefficient; n-Octanol/ Water:</b>	No information available	
<b>Autoignition temperature:</b>	No information available	
<b>Decomposition temperature:</b>	No information available	
<b>Kinematic viscosity:</b>	No information available	
<b>Dynamic viscosity:</b>	10 cPs.	@ 22.8 °C. .
<b>Refractive Index:</b>	1.4384	@ 25°C (77°F)
<b><u>Other Information:</u></b>		
<b>Density:</b>	0.7953 g/cm <sup>3</sup> @ 20.0 °C	
<b>VOC Content (%):</b>	0	
<b><u>Miscibility/ Solubility:</u></b>		
<b>Water:</b>	Immiscible	
<b>Alcohol</b>	Miscible	
<b>Aromatic solvents:</b>	Miscible	
<b>Petroleum distillates:</b>	Miscible	

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

**Hazardous polymerization:** Hazardous polymerization does not occur.

### Conditions to avoid

Extremes of temperature and direct sunlight.

### Incompatible materials:

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

### Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

## 11. TOXICOLOGICAL INFORMATION

### Numerical measures of toxicity - Product Information

<b>Oral LD<sub>50</sub></b>	>5,000 mg/kg (rat)
<b>Dermal LD<sub>50</sub></b>	>2,000 mg/kg (rabbit)
<b>Inhalation LC<sub>50</sub></b>	>3.12 mg/L, (rat; 4 hours)
<b>Eye contact:</b>	Irritation clearing in 24 hours. (rabbit).
<b>Skin Contact:</b>	No irritation at 72 hours. (rabbit).
<b>Skin Irritation Index:</b>	0.29

**Sensitization:** Positive. (guinea pig).

**Comment:** Toxicology data was bridged from a similar formula.

**Piperonyl Butoxide:** 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.

**Carcinogenicity** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

<b>Reproductive toxicity:</b>	No information available.
<b>Developmental Toxicity</b>	No information available.
<b>Teratogenicity:</b>	No information available.
<b>STOT - single exposure:</b>	No information available.
<b>STOT - repeated exposure:</b>	No information available.
<b>Chronic toxicity:</b>	Avoid repeated exposure.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:****Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

Chemical Name	Partition coefficient; n-Octanol/ Water:
Prallethrin (ETOC®) 23031-36-9	4.49

**Other adverse effects:** No information available**Environmental hazards (EPA):**

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.

<b>13. DISPOSAL CONSIDERATIONS</b>
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**Waste treatment methods**

**Disposal of wastes:** Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.

**Contaminated packaging:** For more information, see product label.

<b>14. TRANSPORT INFORMATION</b>
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**DOT (Department of Transportation)**

**Proper Shipping Name:** Insecticides, Insect or Animal Repellent, Liquid  
**Hazard Class:** This material is not 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 Gallons / 450 Liters).

When shipping in Bulk-quantities (*i.e.*, more than 119 Gallons / 450 Liters), please contact MGK® for the proper shipping description.

**Air (IATA/ ICAO)**

**Proper Shipping Name:** Insecticides, Insect or Animal Repellent, Liquid  
**Hazard Class:** This material is not hazardous.

**Vessel (IMO/ IMDG)** Not available

<b>15. REGULATORY INFORMATION</b>
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**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Piperonyl Butoxide (PBO) - 51-03-6	1.0

**SARA 311/312 Hazard****Categories**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations:****California Proposition 65:**

This product does not contain any Proposition 65 chemicals

**U.S. EPA Label Information:**

**EPA Registration Number:** 1021-1875

**Difference between SDS and EPA (FIFRA) Pesticide label:**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

Signal word: **CAUTION**

**Precautionary Statements:**

- Harmful if inhaled.
- Harmful if absorbed through the skin.
- Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**International:**

TSCA	Complies
DSL/NDSL	Does not comply
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies



KECL Does not comply  
PICCS Does not comply  
AICS Does not comply

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.**

**Issue Date:** 25-Oct-2016  
**Revision Date:** 25-Oct-2016  
**Revision Note:** - New SDS.

**SDS Prepared By:** Troy Azzivitto, MGK® Chemistry Department.  
**e-Mail Address:** mgk-sds@mgk.com

**Disclaimer:**

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

**End of Safety Data Sheet.**