



# SAFETY DATA SHEET

Issue Date: 30-Apr-2018

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Version: 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product identifier

**Product Name:** AZERA® Pro

**EPA Registration Number:** 1021-1872

### Other means of identification

**Part Code:** 2905

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

**Recommended Use:** An Insecticide for Organic Crop Protection.

### 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 corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Aspiration toxicity	Category 1
Combustible liquid	Category 4

### Label elements

#### **Emergency Overview**

**DANGER**

**Hazard statements**

- H304 - May be fatal if swallowed and enters airways
- H319 - Causes serious eye irritation
- H332 - Harmful if inhaled
- H315 - Causes skin irritation
- H227 - Combustible liquid

**Appearance:** Dark, amber**Physical state:** Liquid**Odor:** Fruity-odor/ odor of fruit.**Precautionary Statements - Prevention:**

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P264 - Wash face, hands and any exposed skin thoroughly after handling  
 P271 - Use only outdoors or in a well-ventilated area  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response:**

- P321 - Specific treatment (see Section 4/ First Aid).  
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P337 + P313 - If eye irritation persists: Get medical advice/attention  
 P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
 P332 + P313 - If skin irritation occurs: Get medical advice/attention  
 P362 - Take off contaminated clothing and wash 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  
 P370 + P378 - In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage:**

- P405 - Store locked up  
 P403 + P235 - Store in a well-ventilated place. Keep cool

**Precautionary Statements - Disposal:**

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

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

Not applicable

<b>3. COMPOSITION/ INFORMATION ON INGREDIENTS</b>
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Chemical Name	CAS No.	Weight-%
Azadirachtin	11141-17-6	1.20
Pyrethrins	8003-34-7	1.40
1-Hexanol	111-27-3	25<--->50

\*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:**

<b>Eye contact:</b>	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.
<b>Skin Contact:</b>	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.
<b>Ingestion:</b>	If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give <b>any</b> 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.
<b>Inhalation:</b>	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.
<b>Self-protection of the First Responder:</b>	Use personal protective equipment as required.
<b>Note to physicians:</b>	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. Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray (fog). Alcohol resistant foam.

**Unsuitable extinguishing media:**

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

**Hazardous combustion products:** Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

**Specific hazards arising from the chemical**

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

**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 2	Instability 0	<b>Physical and Chemical Properties</b>
<u>HMIS</u>	Health hazards 2	Flammability 2	Physical hazards 0	- <b>Personal protection</b> X
<i>Chronic Hazard Star Legend</i> * = Chronic Health Hazard				

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

**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:** Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. P270 - Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). 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 away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers. For more information, see product label.

## 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines:** .

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Supplier OEL
Pyrethrins 8003-34-7	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	IDLH: 5000 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	-

NIOSH IDLH *Immediately Dangerous to Life or Health*

**Other Information:** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Appropriate engineering controls

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

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

**Eye/face protection:** Wear safety glasses with side shields (or goggles).

**Skin and body protection:** Wear protective gloves and protective clothing.

**Respiratory protection:** 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.

**General Hygiene Considerations:** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

**Physical state:** Liquid  
**Appearance:** Dark, amber  
**Odor** Fruity-odor/ odor of fruit.  
**Odor threshold:** No information available  
**Color (Gardner Scale):** 18

**Property:** Values:  
**pH:** 5  
**Melting point / freezing point:** No information available  
**Boiling point / boiling range:** No information available  
**Flash point:** 67.2 °C / 153.0 °F

**Comment: • Method**  
@ 5% in H<sub>2</sub>O. .

Tag Closed Cup;

**Evaporation rate:** No information available  
**Flammability (solid, gas):** No information available  
**Upper flammability limit (UEL):** No information available  
**Lower flammability limit (LEL):** No information available  
**Vapor pressure:** No information available  
**Vapor density:** No information available  
**Specific Gravity:** No information available  
**Water solubility:** No information available  
**Partition coefficient; n-Octanol/  
Water:** No information available  
**Autoignition temperature:** No information available

<b>Decomposition temperature:</b>	No information available	
<b>Kinematic viscosity:</b>	No information available	
<b>Dynamic viscosity:</b>	34.7 cPs.	@ 24.3 °C. .
<b>Refractive Index:</b>	1.4409	@ 25.0 °C

**Other Information:**

<b>Density:</b>	0.941 g/cm <sup>3</sup> @ 20.0 °C
<b>VOC Content (%):</b>	58.05

**Miscibility/ Solubility:**

<b>Water:</b>	Partially miscible
<b>Alcohol</b>	Miscible
<b>Aromatic solvents:</b>	Partially miscible
<b>Petroleum distillates:</b>	Partially 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**

Heat, flames and sparks.

**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>	>5,000 mg/kg (rabbit)
<b>Inhalation LC<sub>50</sub></b>	>2.06 mg/L, (rat; 4 hours)
<b>Eye contact:</b>	Severely irritating to eyes. Irritation cleared within 17 days. (rabbit).
<b>Skin Contact:</b>	Slightly irritating. Irritation cleared within 19 days. (rabbit).
<b>Skin Irritation Index:</b>	1.7
<b>Sensitization:</b>	Negative. (guinea pig).
<b>Carcinogenicity</b>	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.

**STOT - single exposure:** No information available.  
**STOT - repeated exposure:** No information available.  
**Chronic toxicity:** Avoid repeated exposure.  
**Target Organ Effects:** Central nervous system, Respiratory system, Skin.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

#### **Persistence and degradability**

No information available.

#### **Bioaccumulation**

No information available.

Chemical Name	Partition coefficient; n-Octanol/ Water:
1-Hexanol 111-27-3	2.03

**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.

## 13. DISPOSAL CONSIDERATIONS

### 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.

## 14. TRANSPORT INFORMATION

### **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 as a hazardous material by the DOT in quantities less than 71.4 Lbs.

Shipping name for quantities less than 71.4 Lbs.:

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

### **Air (IATA/ ICAO)**

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

Vessel (IMO/ IMDG) Not available

## 15. REGULATORY INFORMATION

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### **SARA 311/312 Hazard**

##### Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
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)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Pyrethrins 8003-34-7	1 lb	-	-	-

#### **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

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ):
Pyrethrins 8003-34-7	1 lb	-	RQ 1 lb final RQ RQ 0.454 kg final RQ

#### **US State Regulations:**

##### **California Proposition 65:**

This product does not contain any Proposition 65 chemicals

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

**EPA Registration Number:** 1021-1872

#### **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: **WARNING**

Precautionary Statements:

- Causes substantial but temporary eye injury.
- Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

International:

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Does not comply
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Does not comply
<b>KECL</b>	Does not comply
<b>PICCS</b>	Does not comply
<b>AICS</b>	Does not comply

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - 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

<b>16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.</b>
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<b>Issue Date:</b> 30-Apr-2018	<b>Revision Date:</b> 30-Apr-2018	<b>Revision Note:</b> - New SDS.
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**SDS Prepared By:** Troy Azzivitto, MGK® Chemistry Department.  
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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.**