

SAFETY DATA SHEET

Revision Date: 30-Apr-2018

Version: 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier Product Name:	AZERA® Gardening	
EPA Registration Number:	1021-1872	
Other means of identification Part Code:	2905	
Recommended use of the chemi		
Recommended Use:	An Insecticide for Organic Crop Protection.	
Details of the supplier of the saf	ety data sheet	
Manufacturer Address: McLaughlin Gormley King Compar 7325 Aspen Lane North Minneapolis, MN 55428	FAX #: ny (763) 544-6437	
Telephone Number: e-Mail Address: mgk-sds@mgk.co	(800) 645-6466, or (763) 544-0341 om	
Emergency telephone numbers: 24 Hour TRANSPORTATION Emergency:CHEMTREC®: (800) 424-9300 (703) 527-3887International:(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	

2. HAZARDS IDENTIFICATION

(888) 740-8712, or (952) 852-9509.

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

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DANGER
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Hazard statements

H304 - May be fatal if swallowed and enters airways H319 - Causes serious eve irritation H332 - Harmful if inhaled H315 - Causes skin irritation H227 - Combustible liquid Odor Fruity-odor/ odor of fruit. Appearance: Dark, amber Physical state: Liquid

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/eve 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 CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage:

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P405 - Store locked up
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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

3. COMPOSITION/ INFORMATION ON INGREDIENTS

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:

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 centeror 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.
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. Dry chemical. Carbon dioxide (CO2). 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 (CO2).

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 Insta	bility 0	Physical and Chemical Properties
HMIS_	Health hazards	2 Flammability	2 Phys	ical hazards 0	Personal protection
Chronic Hazard Star	Legend *=0	hronic Health Hazard	I		~
	6. A0	CIDENTAL RELE	EASE MEAS	SURES	
Personal precautions	s, protective equ	pment and emergen	cy procedure	<u>s</u>	
Personal precaution	Eva spill	uate personnel to saf	e areas. Keep	people away from	all sources of ignition. n and upwind of measures against static
Environmental preca	into safe	surface water or sanit	ary sewer syst	em. Prevent furth	ined areas. Do not flush er leakage or spillage if Section 12 for additional
Methods and materia	al for containmer	t and cleaning up			
Methods for contain	ment: Prev	ent further leakage or	spillage if safe	e to do so.	
Methods for cleaning	Cov trans	r powder spill with pla	astic sheet or ta d containers. S	arp to minimize s oak up with inert	e absorbent material. preading. Pick up and absorbent material. Dam es.

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 ³	TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 5000 mg/m ³ TWA: 5 mg/m ³	-
NIOSH IDLH	Immediatel	y Dangerous to Life or H	lealth	
Other Information:		its revoked by the Court 1th Cir., 1992).	of Appeals decision in	AFL-CIO v. OSHA, 965
Appropriate engineeri	ng controls			
Engineering Controls:	Safety show Eyewash st Ventilation	ations		
Individual protection r	<u>measures, such as pei</u>	sonal protective equip	oment	
Eye/face protection	n: Wear safety	glasses with side shield	ds (or goggles).	
Skin and body prot	tection: Wear prote	ctive gloves and protecti	ve clothing.	
Respiratory protec	approved re respirators	limits are exceeded or in espiratory protection sho may be required for high protection must be prov	uld be worn. Positive-pr	essure supplied air concentrations.
General Hygiene Considerations:		g do not eat, drink or smo g is recommended.	oke. Regular cleaning o	f equipment, work area

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Appearance: Odor Odor threshold: Color (Gardner Scale):	Liquid Dark, amber Fruity-odor/ odor of fruit. No information available 18	
Property:	Values:	Comment: • Method
pH:	5	@ 5% in H2O
Melting point / freezing point:	No information available	
Boiling point / boiling range:	No information available	
Flash point:	67.2 °C / 153.0 °F	Tag Closed Cup;
Evaporation rate: Flammability (solid, gas): Upper flammability limit (UEL): Lower flammability limit (LEL): Vapor pressure: Vapor density: Specific Gravity: Water solubility: Partition coefficient; n-Octanol/ Water: Autoignition temperature:	No information available No information available	

Decomposition temperature: Kinematic viscosity: Dynamic viscosity: Refractive Index:	No information available No information available 34.7 cPs. 1.4409	@ 24.3 °C @ 25.0 °C
Other Information: Density: VOC Content (%):	0.941 g/cm³ @ 20.0 °C 58.05	
<u>Miscibility/ Solubility:</u> Water: Alcohol Aromatic solvents: Petroleum distillates:	Partially miscible Miscible Partially miscible 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 (CO2).

11. TOXICOLOGICAL INFORMATION

Numerical measures of toxicity - Product Information

Oral LD50 Dermal LD50 Inhalation LC50 Eye contact: Skin Contact: Skin Irritation Index:	 >5,000 mg/kg (rat) >5,000 mg/kg (rabbit) >2.06 mg/L, (rat; 4 hours) Severely irritating to eyes. Irritation cleared within 17 days. (rabbit). Slightly irritating. Irritation cleared within 19 days. (rabbit). 1.7
Sensitization:	Negative. (guinea pig).
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity: Developmental Toxicity Teratogenicity:	No information available. No information available. 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	2.03
111-27-3	

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: Hazard Class:	Insecticides, Insect or Animal Repellent, Liquid 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.:
<u>Air (IATA/ ICAO)</u>	Insecticides, Insect or Animal Repellent, Liquid Hazard Class: This material is not hazardous.
Proper Shipping Name: Hazard Class:	Insecticides, Insect or Animal Repellent, Liquid 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	CWA - Toxic	CWA - Priority	CWA - Hazardous
	Quantities	Pollutants	Pollutants	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:	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
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/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

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.

Issue Date: 30-Apr-2018	Revision Date: 30-Apr-2018	Revision Note: - SDS sections updated - 2 - 5 - 8 - 15	
SDS Prepared By: e-Mail Address:		vitto, MGK® Chemistry Department. 2mgk.com	
Disclaimer:	and believ extent cor extend no to the acc the extent or affiliate without in particular it is the us their own that you h This Safe REPLACE	The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, MGK® and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither MGK® nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact MGK® to confirm that you have the most current product label and SDS. 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.