

Safety Data Sheet

Azoxyzone

SDS: 2/23/16

Section 1 – Chemical Product and Company Identification

Product Name: Azoxyzone

CAS # 131860-33-8

EPA Reg. #: 71532-35-91026

Product Use: Fungicide

Company Identification: LG Life Science America Inc.
910 Sylvan Avenue
Englewood Cliffs, NJ 07632

Emergency call: 201-816-2310

Chemtrec call: 800-424-9300

Section 2 – Hazards identification

Classification of substance:



Harmful if Swallowed

May be harmful in contact with skin

May be harmful if inhaled

Cause mild skin irritation

Cause eye irritation

Harmful to aquatic life

GHS labeling elements:

The substance is classified and labeled according to the Globally Harmonized System (GHS):

Hazard pictograms:



GHS07

GHS09

Signal Word: Warning

Hazard-determined components of labeling: Azoxystrobin

Hazard statements:

Harmful if Swallowed

May be harmful in contact with skin

May be harmful if inhaled

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Cause mild skin irritation

Cause eye irritation

Harmful to aquatic life

Precautionary Statements:

Prevention: Wash thoroughly after handling

Avoid release to the environment

Response:

If swallowed: Call a Poison Center/doctor if you feel unwell. Rinse mouth.

If in Eye: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If Eye Irritation Persists: Get medical advice/attention.

If Skin Irritation Occurs: Get medical advice attention.

If Inhaled: Call a poison center or doctor/physician if you feel unwell.

Storage: Store in a well-ventilated place. Keep cool.

Collect Spillage

Disposal: Dispose of contents and containers in accordance with local, regional, federal and international regulations.

Section 3 – Composition/information of ingredient

Chemical Name	Trade names and Synonyms	Percent	CAS No.
Azoxystrobin	Methyl(E)-2-[2[6-(2-cyanophenoxy)pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate	22.9%	131860-33-8
Other Ingredients	Non-Toxic and non-hazardous*	77.1%	

*Proprietary components

Section 4 – First Aid Measures

Symptoms	Poisoning symptoms in laboratory animals were non-specific.
Swallowed:	Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth with water immediately.
Eyes:	May cause irritation do not rub eyes. Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

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Skin:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes.
Inhalation:	May cause irritation. Remove to fresh air. If person stops breathing or irregular, give artificial respiration and supply oxygen.
Note to Physicians Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the Poison Control Center 800-222-1222.	

Section 5 – Fire Fighting Measure

Extinguishing media: Use dry powder or sand, carbon dioxide, water fog, foam, halogenated agents, or appropriate surrounding fire and materials. Avoid use of water jets for extinguishing. Using dry chemical, foam or carbon dioxide extinguishing media.

Fire and Explosive Hazards: Combustible liquid. Can lease vapors that form explosive mixtures at temperatures at or above the flash point. Possible toxic smoke, vapor, fallout and runoff water can result from fires depending on extent of combustion and presence of other combustible materials. Contaminated buildings, areas and equipment must be properly decontaminated before reuse. Heavy vapor can flow along surfaces to distant ignition sources and flash back. During Fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special fire fighting procedures: Fireman should wear self-contained breathing apparatus with full facepiece, complete fire protection clothes and shoes. Do not access if tank is on fire. Use water to cool exposed containers to extinguish fire. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Avoid inhalation of materials or combustion by-product. Vapor or gas is burned at distant ignition sources can be spread quickly. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. If water is used to fight fire, build a dike and collect the runoff.

Reference to other sections:

See Section 10 for decomposition products.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear approved respiratory protection, chemically compatible gloves and protective clothing. Keep unprotected persons way. Allow work against the wind and remove all people upwind. Do not direct water at spill or source leak. Use adequate ventilation to prevent inhalation. Prevent use of contaminated building, area, and equipment until decontaminated.

Environmental precautions: Harmful to aquatic organisms. Prevent runoff and contact with sources of water including but not limited to drains, sewers, lakes and ponds. In case of large spill, inform the relevant authorities.

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Methods and material for containment and cleaning up:

In case small leak or spill: contain material using sand or other non-combustible, let absorb, and dispose as waste. Don't contaminate any body of water. Sweep up material, place in a bottle, and hold for waste disposal. Do not use alkaline absorbent. Rinse with a small amount of water and use absorbent to collect the wash solution. Scrub the area with hard water detergents. Absorb any excess liquid as indicated above, and add to the disposal container. Seal drum and dispose of contaminated material in a facility permitted for hazardous waste. Large spills should be handled according to spill plan. Otherwise, in case of emergency call, day or night, 800-424-9300, Chemtrec.

In case large leak or spill: Stay upwind and keep out of low areas. Prevent from contaminating waterways. Dispose of waste in accordance with local regulation. Eliminate potential source of ignition. Wear appropriate respirator and other protective clothing. Shut off source of leak only if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand, or other suitable material; place in non-leaking containers and seal tightly for proper disposal. Flush are with water to remove trace residue; dispose of flush solution as above. Inform the relevant authorities when emission at least standard amount.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 – Handling and Storage

Handling

Precautions for safe handling: Avoid direct physical contact. Do not inhale the steam prolonged or repeated. Use product only in well-ventilated place. Do not inhale the steam prolonged or repeated. Users should wash hands before eating and drinking. Do not contaminate water, food, or feed by storage. Since emptied containers retain product residue (vapor, liquid, solid) follow all SDS and label warnings even after container is empty. Keep protective respiratory device available.

Conditions for Safe Storage, including any incompatibilities

Storage: Do not contaminate water, food, or feed by storage. Store in original container only. Avoid direct sunlight. Do not apply physical shock to container. Store in a secure, dry and temperate area. Keep container closed when not in use. Avoid contact with water. Shake well before use.

Requirements to be met by storerooms and receptacles: Store out of sun in a cool place. Do not store near food or feed. Do not use or store around the home. Protect from freezing.

Reference to other sections:

See Section 10 for incompatibilities

See Section 6 for accidental release measure

Section 8 – Contact Controls and Personal Protection

Max allowed concentration: No Data

Way of measurement: No Data

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Engineering Control: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep risk of inhalation low. Take safety shower after handling equipment. An adequate supply of clean potable water should be available to allow thorough flushing of the skin and eyes in even of contact with this material.

Personal Protection

Respirators: Not normally needed for this product when diluted in water for end-use application. When needed, use MSHA/NIOSH approved respirator for pesticide.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles such as splash resistant safety goggles with a secondary protection faceshield. Provide an emergency eye wash station and quick drench shower in the immediate work area.

Body: Wear appropriate chemical resistant overalls and rubber boots and rubber gloves. Avoid any skin exposure. Wash separately from other laundry.

Hands: Wear appropriate gloves, such as barrier laminate or Viton \geq 14mils.

General protective and hygienic measures: Discard clothing other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Wash contaminated clothing before reuse. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. No smoking, eating or drinking during handling. Change to clean clothes after washing.

Other conditions: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

General Information:

Appearance and Physical State: Fluid, mild, faint and chemical-like

Color: white suspension

pH Value: 6.78 (1% solution @ 25°C)

Viscosity: Not available

Vapor Pressure (25 °C): Not available

Melting point: Not available

Boiling Point: Not available

Specific Gravity: Not available

Comparative concentration (water: 1): Not available (not required for end use)

Quantity of heat in burning (KJ/mol): Not available (not required for end use)

Density (g/cm³): 1.065 g/cm³ at 20°C

Critical pressure (Mpa): Not available

Critical temperature: Not available

Flash point (C): Not available

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Flammable Limits: Not available
Autoignition Temperature: Not available
Burning temperature (C): Not available
Explosion: Not available
Partition Coefficient: Not available
Solubility: Miscible in water as a suspension

Section 10 – Stability and Reactivity

Chemical Stability: This material is stable at the normal storage conditions.
Incompatible to Avoid: None Known
Conditions to Avoid: None Known
Decomposition Products: None Known
Hazardous Polymerization: Will not occur
Reference to other sections:
See Section 5 for static discharge potential

Section 11 – Toxicological Information

Acute Toxicity:
LD/LC50 values that are relevant for classification:
Oral: LD₅₀ : 550 mg/kg
Inhalation: LC₅₀: > 2.05 mg/L
Dermal: > 5,000 mg/kg
Eyes: Minimal Eye Irritation
Skin Sensitization: Slight sensitizer
Primary irritant effect:
If swallowed: Harmful if swallowed
On the skin: Slight irritating to skin. Irritation can develop following repeated and/or prolonged contact with human skin.
On eyes: Minimally irritating to the eye
Respiratory sensitization: Single exposure to dust is not likely to be hazardous. Vapors are unlikely due to physical properties.
Skin Sensitization: Product is not considered a contact sensitizer.
Germ Cell Mutagenicity: The chromosome aberration test was negative.
Carcinogenicity: This product has negative Ames test results.
Reproductive Toxicity: Not available
STOT-Single Exposure: Not available
STOT-Repeated Exposure: Not available
Aspiration Hazard: Not available

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Section 12 – Ecological Data

Azoxystrobin Technical: Toxic to freshwater and estuarine/marine fish and aquatic invertebrates.

Eco-toxicity:

Fish acute toxicity: LC₅₀: 1.8 mg/l (96hr) (Rainbow trout)

Crustaceans acute toxicity: EC₅₀: 1.2 ug/l (72hr) (Daphnia magna)

Algae acute toxicity: E_rC₅₀= 3.87 mg/L (72hr)

Bioaccumulative potential: Azoxystrobin: not persistent in water

Biodegradation potential: Medium potential

Other: This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when cleaning equipment or when disposing of equipment rinsate.

Section 13 – Disposal Considerations

Waste Disposal: Do not contaminate water, food, or feed by disposal. Dispose of waste in accordance with all applicable Federal, State, and local laws. Improper disposal of excess pesticide, spray mixture, or rinsate is violation of Federal Law. If this waste cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Do not distribute, make available, furnish or reuse empty containers. Triple rinse (or equivalent), then offer for recycling or reconditioning if container reuse is permitted. If container reuse is prohibited, puncture metal containers and dispose of in a sanitary landfill, or by other approved State and local authorities, if burned, stay out of smoke.

Section 14 – Transport Information

DOT Classification

Ground Transport- NAFTA

Not Regulated

Comments

Water Transport- International

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Azoxystrobin), Marine Pollutant

Hazard Class or Division: Class 9

Identification Number: UN 3082

Packing Group: PGIII

Air Transport

Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Azoxystrobin)

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Hazard Class or Division: Class 9

Identification Number: UN 3082

Packing Group: PGIII

Section 15 – Regulatory Data

Hazard Data	FIFRA Classification/Typical Hazard Labeling, as outlined in EPA Label Review Manual	OSHA HCS Requirement for Section 2 of SDS
Signal Word	CAUTION	WARNING
Acute Toxicity, oral LD ₅₀ 550 mg/kg	(Category III) Harmful if swallowed	(Category 4) Exclamation Mark Harmful if Swallowed
Acute Toxicity, dermal LD ₅₀ >5,000 MG/KG	(Category IV) Harmful if absorbed through skin	(Category 5) May be harmful in contact with skin
Acute Toxicity, inhalation LD ₅₀ 2.05 mg/kg	(Category IV) No Statement required	(Category 3) May be harmful if inhaled
Skin Irritation	(Category IV) Avoid contact with skin or clothing	(Category 3) Cause mild skin irritation
Eye Irritation	(Category IV) No Statement required	(Category 2B) Cause eye irritation
Sensitization	Not sensitizer	Not classified
Germ Cell Mutagenicity	Not labeled	Not classified
Carcinogenicity	Not labeled	Not classified
Reproductive/developmental Toxicity	Not labeled	Not classified
Specific target organ toxicity, single exposure	Not labeled	Not classified
Specific target organ toxicity, repeated exposure	Not labeled	Not classified
Aspiration	Not labeled	Not classified
Environmental (aquatic) toxicity	This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates.	Not within OSHA's jurisdiction, therefore not required on SDS. Optional GHS aquatic toxicity symbol and hazard statement: Harmful to aquatic life

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FIFRA Classification: 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 hazard information required on the pesticide label is reproduced below. The pesticide label also included other important information, including direction for use. Following is the hazard information as required on the pesticide label:

CAUTION

Harmful if Swallowed

Harmful if absorbed through skin.

Avoid with skin, eyes or clothing.

Washing thoroughly with soap and water after handling and before eating, drinking chewing gum, using tobacco or using the toilet.

Remove and wash contaminated clothing before reuse.

Wear long-sleeved shirt and long pants, socks and shoes and chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.

This pesticide is toxic to freshwater and estuarine/marine fish and aquatic invertebrates.

GHS labeling elements:

The substance is classified and labeled according to the Globally Harmonized System (GHS):

Hazard pictograms:



GHS07

GHS09

Signal Word: Warning

Hazard-determined components of labeling: Azoxystrobin

Hazard statements:

Harmful if Swallowed

May be harmful in contact with skin

May be harmful if inhaled

Cause mild skin irritation

Cause eye irritation

Harmful to aquatic life

Section 16 – Additional information

Reference: The information contained herein is believed to be accurate. It is provided independently of any sale of

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the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein. This Safety Data Sheet was compiled with data and information from the following source: KOSHA, NITE, ESIS, NLM, SIDS, IPCS

SDS Date Issue: 11/30/15

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