

Gulfstream Home and Garden
2030 Powers Ferry Road, Suite 370
Atlanta, GA 30339

Consumer Service/General Questions: 866-945-5033
Medical (Human or Animal): 800-420-9347
Spills: 800-424-9300

1. PRODUCT IDENTIFICATION

Product Name: Maxide Dual Action Disease Killer
 Item Numbers: 1200, 1236, 1235
 EPA Signal Word: Caution
 Active Ingredient (%): Azoxystrobin (0.31%) CAS No.: 131860-33-8
 Chemical Name: Methyl (E)-2-{2-[6-(2-cyanophenoxy)pyrimidin-4-yloxy]pheny;}-3-methoxyacrylate
 Chemical Class: A beta-methoxyacrylate fungicide
 EPA Registration Number(s): 100-1275-85579

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	Other	NTP/IARC/OSHA Carcinogen
Acetophenone (<4%)	Not Established	10 ppm TWA	Not Established	No
Limestone (Dolomitic) Crystalline Silica, Quartz	15 mg/m ³ TWA 10 mg/m ³ /(%SiO ₂ +2) (respirable dust)	10 mg/m ³ TWA 0.025 mg/m ³ (respirable silica)	10 mg/m ³ TWA** 0.05 mg/m ³ (respirable dust)**	No IARC1; ACGIH 1
Wood Dust	5 mg/m ³ TWA	10 mg/m ³ TWA	Not Established	IARC Group 1
Azoxystrobin (0.31%)	Not Established	Not Established	2 mg/m ³ TWA***	No

** recommended by NIOSH
 ***Gulfstream Occupational Exposure Limit (OEL)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.
 Gulfstream Hazard Category: B

3. HAZARDS IDENTIFICATION

Health and Environmental:
 Causes mild eye irritation. May cause respiratory tract irritation.

Hazardous Decomposition Products
 None known

Physical Properties
 Appearance: Brown Granules
 Odor: Not determined

Unusual Fire, Explosion and Reactivity Hazards
 During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

4. FIRST AID MEASURES

Have the product container, label or Material Safety Data Sheet with you when calling a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call 800-420-9347, a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after call 800-420-9347 or by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eye Contact: If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call 800-420-9347, a poison control center or doctor or treatment advice.

Skin Contact: If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call 800-420-9347, a poison control center or doctor for treatment advice.

Inhalation: If inhaled: Move 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 800-420-9347, a poison control center or doctor for further treatment advice.

Notes to Physician

There is no specific antidote if this product is ingested. Treat symptomatically.

Medical Condition Likely to be Aggravated by Exposure

None known

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): Not available

Flammable Limits (% in Air): Lower: Not applicable Upper: Not applicable

Autoignition Temperature: Not a self-heating substance

Flammability: Not available

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire

Use dry chemical, foam or CO₂ extinguishing media. Wear full protection clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Ingestion: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact: Where eye contact is likely, use dust-proof chemical goggles.

Skin Contact: Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, Neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC), or virton), coveralls, socks and chemical resistant footwear. For overhead exposure, wear chemical resistant headgear.

Inhalation: A respirator is not normally required when handling this substance. Use effective engineering controls to comply with occupational exposure limits.

In case of emergency spills, use a NIOSH approved respirator with any N, R, or P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown Granules

Odor: Not determined

Melting Point: Not available

Boiling Point: Not applicable

Specific Gravity/Density: 0.813 – 0.828 g/ml

pH: 6.95 (1% solution in deionized H₂O @ 77 degrees F [25 degrees C])

Solubility in H₂O

Azoxystrobin: 6 mg/1 in water @ 68 degrees F (20 degrees C)

Vapor Pressure

Azoxystrobin: 8.25 x 10⁻¹³ mmHg @ 68 degrees F (20 degrees C)

10. STABILITY AND REACTIVITY

Stability: Stable under normal use and storage conditions.

Hazardous Polymerization: Will not occur

Conditions to Avoid: None known

Materials to Avoid: None known

Hazardous Decomposition Products: None known

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Oral (LD50 Rat): > 5000 mg/kg body weight (based on a substantially similar formulation)

Dermal: Dermal (LD50 Rabbit): >5050 mg/kg body weight (based on a substantially similar formulation)

Inhalation: Inhalation (LC50 Rat): Not available

Eye Contact: Minimally Irritating (Rabbit) (based on a substantially similar formulation)

Skin Contact: Non-irritating (Rabbit) (based on a substantially similar formulation)

Skin Sensitization: Not a sensitizer (Guinea Pig) (based on a substantially similar formulation)

Reproductive/Developmental Effects

Azoxystrobin: Shows weak chromosomal damage in mammalian cells at cytotoxic levels. Negative in whole animal assays for chromosomal and DNA damage at high dosages (> or = 2,000 mg/kg). In rabbits, no effect was observed up to the highest dose level (500 mg/kg/day). In rats, developmental effects were seen only at maternally toxic doses (100 mg/kg/day).

Chronic/Subchronic Toxicity Studies

Azoxystrobin: In a rat 90-day feeding study, liver toxicity was observed at 2,000 ppm. This was manifest as gross distension of the bile duct, increased numbers of lining cells and inflammation of the duct. No toxicologically significant effects were seen in repeat dose dog studies. Data reviews do not indicate any potential for endocrine disruption. There is no evidence of neurotoxicity in any of the studies conducted with azoxystrobin.

Carcinogenicity

Azoxystrobin: No carcinogenic effects observed in rats or mice at doses up to the maximum tolerated dose.

Other Toxicity Information: None

Toxicity of Other Components

Acetophenone (<4%)

Test results reported in Section II for the final product take into account any acute hazards related to the Acetophenone in the formulation.

Limestone (Dolomitic)

Results in skin irritation with a sensitizing (allergic) reaction.

Wood Dust

Dust may be irritating to the nose, throat and respiratory tract. Skin irritation may result. Dust may also be irritating to the eyes.

Target Organs

<u>Active Ingredients:</u>	Azoxystrobin:	Liver
<u>Inert Ingredients:</u>	Acetophenone:	Not application
	Limestone (Dolomitic):	Skin
	Wood Dust:	Eye, skin, nasal passages

12. ECOLOGICAL INFORMATION

Summary of Effects: Azoxystrobin: Very toxic to aquatic life.

Ecotoxicity Effects:

Azoxystrobin:
Green Algae 5-day EC50 106 ppb
Invertebrate (Water flea) 48-hour EC50 259 ppb
Fish (Rainbow Trout) 96-hour LC50 470 ppb
Bird (Mallard Duck) 14-day LD50>250 mg/kg

Environmental Fate

Azoxystrobin:
The information presented here is for the active ingredient, azoxystrobin. Low bioaccumulation potential. Not persistent in soil. Stable in water. Moderate mobility in soil. Sinks in water (after 24 h).

13. DISPOSAL CONSIDERATIONS

Disposal: Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state and federal health and environmental regulations.

Characteristic Waste: Not applicable

Listed Waste: Contains Acetophenone U004

14. TRANSPORT INFORMATION

DOT Classification:

Ground Transport – NAFTA
Not regulated by US DOT
Note: packages prepared for export by water are classified by IMDG standards (see below)
Special Provisions 146

Air Transport – NAFTA
Not regulated by US DOT or IATA
Note: packages prepared for export to Europe are classified by ADR/RID standards (see below)
Special Provision A 97

B/L Freight Classification: Fungicides, NOIBN, O/T Poison

Comments:

Water Transport (IMDG) – International
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S (Azoxystrobin), Marine Pollutant
Hazard Class or Division: Class 9
Packing Group: PG III
IMDG EMS#: F-A, S-F

Air Transport (IATA) – International
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Azoxystrobin), Marine Pollutant
Hazard Class or Division: Class 9
Identification Number: UN 3077
Packing Group: PG III
Note: Packing Authorization 911 Inner Max. inner packages 50 kg; single packages – 400 kg

European Road/Rail (ADR/RID)
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Azoxystrobin)
Hazard Class or Division: Class 9
Identification Number: UN 3077
Packing Group: PG III

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312/ Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Acetophenone (<4%) (CAS No. 98-86-2)

California Proposition 65: None applicable

CERCLA/SARA 302 Reportable Quantity (RQ): None.

RCRA Hazardous Waste Classification (40 CFR 261): Not available

TSCA Status: Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
Flammability: 1
Instability: 0

HMIS Hazards Ratings

Health: 1
Flammability: 1
Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme

For non-emergency questions about this product call: 866-945-5033

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.