



Safety Data Sheet

Report Date 13-May-19

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1. Identification

Product Name : AVARIS 2XS
Synonyms : None
Product Use : Broad-spectrum Fungicide
Manufacturer/Supplier : Helena Agri-Enterprises, LLC
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification



Signal Word : Warning
Skin Irritation : Causes skin irritation
Eye Irritation : Causes serious eye irritation
Acute Toxicity Oral : LD50 (female rat): 1,030 mg/kg (based on a substantially similar product)
Acute Toxicity Dermal : LD50 (rat): >5,000 mg/kg (based on a substantially similar product)
Hazard Categories : Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin Irritation-2A/2; Respiratory Irritation-3
Hazard Statement : Harmful if swallowed
May be harmful in contact with skin
Causes serious eye irritation
Causes skin irritation
May be harmful if inhaled
May cause respiratory irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Azoxystrobin	131860-33-8	13.5
Propiconazole	60207-90-1	11.7
Other ingredients, including Propylene Glycol (CAS No. 57-55-6) and 1-Octanol (CAS No. 111-87-5).		74.8

4. First Aid Measures



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- Eye** : Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.
- Skin** : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for further treatment advice.
- Inhalation** : 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 a poison control center or doctor for further treatment advice.
- Ingestion** : Call a poison control center or doctor immediately 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 doctor. Do not give anything by mouth to an unconscious person.
- Indication of Immediate Medical Attention and Special Treatment Needed** : There is no specific antidote if this product is ingested. Treat symptomatically.

5. Fire Fighting Measures

- Extinguishing Media** : Use dry chemical, foam or carbon dioxide extinguishing agents. If water is used, dike and collect runoff.
- Specific Hazards Arising from the Chemical** : None known.
- Special Fire Fight Proc** : Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent exposure to fire, smoke, fumes or products of combustion.

6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of area. Prevent eating, drinking, tobacco usage and cosmetic application. Wash thoroughly with soap and water after handling.
- Protective Equipment** : Splashproof chemical goggles, chemical-resistant gloves, coveralls, socks and chemical-resistant footwear. Eyewash facility and a safety shower should be available. SCBA or air-purifying respirator may be needed.
- Emergency Procedures** : Control the spill at its source. Contain the spill to prevent spreading or contaminating soil or from entering sewage and drainage systems or any body of water.
- Methods and Materials for Containment and Cleanup** : Clean up spills immediately. Cover entire spill with absorbent material, then collect and place in compatible disposal container. Scrub area with a hard water detergent. Pick up wash liquid with additional absorbent and place into compatible disposal container. Arrange for disposal of collected materials.

7. Handling and Storage

- Precautions for Safe Handling** : Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure. Wash thoroughly with soap and water after handling.
- Conditions for Safe Storage** : Store 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.



8. Exposure Controls / Personal Protection

TLV/PEL : No ACGIH TLV or OSHA PEL established.

Appropriate Engineering Controls : Use effective engineering controls to comply with occupational exposure limits (if applicable).

Personal Protective Equipment : Splashproof chemical goggles, chemical-resistant gloves, coveralls, socks and chemical-resistant footwear. Eyewash facility and a safety shower should be available. Use a particulate/organic vapor respirator.

9. Physical and Chemical Properties

Odor/Appearance : Beige to pale yellow liquid; odor not determined.

Flash Point, °F : Not available

Boiling Point, °F : Not applicable

Melting Point(Freezing point), °C : Not available

Vapor Pressure, mm Hg @ 20 °C : Not determined

Vapor Density : Not available

Solubility in Water : Not available

Molecular Formula : Not applicable, formulated mixture.

Density, g/mL @ 25 °C : 1.06

Evaporation Rate(Butyl Acetate = 1) : Not available

Octanol/Water Partition Coefficient : Not available

pH : 6.2

Flammable Limits (approximate volume % in air) : Not available

Auto-ignition Temperature : Not available

Decomposition temperature : Not available

10. Stability and Reactivity

Reactivity : Not reactive

Chemical Stability : Stable

Hazardous Decomposition Products : Not available

Hazardous Polymerization : Will not occur

Conditions to Avoid : None known.

Incompatible Materials : None known.



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11. Toxicological Information

- Acute Toxicity (Oral LD50)** : 1,030 mg/kg (female rat)(based on a substantially similar formulation)
Acute Toxicity (Dermal LD50) : >5,000 mg/kg (rat)(based on a substantially similar formulation)
Acute Toxicity Inhalation LC50 : >2.56 mg/L/4 hours (rat)(based on a substantially similar formulation)
Likely Routes of Exposure : Eyes, Dermal, Inhalation
Skin Irritation : Moderately irritating (rabbit)(based on a substantially similar formulation)
Eye Irritation : Severely irritating (rabbit)(based on a substantially similar formulation)
Skin Sensitization : Not a skin sensitizer
Carcinogenic : See Section IX, Carcinogen Note.
Chronic Effects : Eye irritation, skin irritation, respiratory irritation.
Other Hazards : No reproductive or developmental effects in animal experiments.

12. Ecological Information

- Ecotoxicity** : Azoxystrobin/Propiconazole: Fish (rainbow trout) 96-hour LC50 470 ppb/0.83 ppm; Invertebrate (water flea) 48-hour EC50 259 ppb/3.2 ppm; Bird (Mallard duck) 14-day LD50>250 mg/kg/2,510 mg/kg.
Persistence and Degradability : No information found
Bioaccumulative Potential : Low bioaccumulation potential
Mobility in Soil : Azoxystrobin has moderate mobility in soil; Propiconazole has low mobility in soil.
Other Adverse Effects : Both active ingredients sink in water (after 24 hours).

13. Disposal Considerations

- Waste Disposal Method** : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

- UN Proper Shipping Name** : Not regulated by DOT. Regulated by IATA and IMDG.
Transport Hazard Class : Class 9 (IATA and IMDG only)
UN Identification Number : UN3082 (IATA/IMDG)
Packaging Group : PG III (IATA/IMDG)
Environmental Hazards : Marine Pollutant (IATA/IMDG)
Transport in Bulk : No information found
Special Precautions for Transportation : Marine Pollutant (IATA/IMDG)
Freight Classification : Pesticides, NOI, Fungicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)



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15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 1 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Registration Number : 100-1324-5905

FIFRA Signal Word : Warning

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Causes substantial but temporary eye injury.

FIFRA Label Statement : Harmful if swallowed.

FIFRA Label Statement : Do not get in eyes or on clothing.

FIFRA Label Statement : Wear appropriate protective eyewear such as goggles, face shield or safety glasses.

FIFRA Label Statement : Avoid contact with skin or clothing.

FIFRA Label Statement :

16. Other Information

Data of Preparation/Revision : 13-May-2019