

Material Safety Data Sheet

Effective Date: 11-DEC-2007
Product: SEED SHIELD

I. IDENTIFICATION

Chemical Name: Azoxystrobin+Difenoconazole+Fludioxonil+Mefenoxam
Chemical Family: Broad-spectrum Seed Treatment Fungicide
Formula: Not applicable, formulated mixture.
Synonyms: None
CAS Number: See Ingredients, Section III.
EPA Number: 100-1286-5905

II. PHYSICAL DATA

Boiling Point: Not available
Freezing Point: Not available
Spec Gravity: 1.04 gms/cc
Vapor Pressure: Not determined
Vapor Density: Not determined
Solubility: Soluble
Volatiles: Not determined
Evaporation: Not determined
Melting Point: Not applicable
Appearance: Opaque yellow liquid with paint odor.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
Azoxystrobin	131860-33-8	5.24	N/E	Skin irritant.
Difenoconazole	119446-68-3	0.35	N/E	Skin irritant.
Mefenoxam	70630-17-0	2.62	N/E	Skin irritant.
Fludioxonil	13141-86-1	0.87	N/E	Skin irritant.
Inert ingredients, including Glycerin (CAS No. 56-81-5).		90.92	10 mg/m3	Skin, eye and respiratory irritant.

IV. FIRE AND EXPLOSION HAZARD

Flash Point: >214 Degrees F.
Autoignition Temp: 896 Degrees F.
Flammable Limit: Not applicable
Extinguishing Media: Use dry chemical, foam or carbon dioxide
extinguishing media.
Special Fire Fight Proc: Wear full protective clothing and self-
contained breathing apparatus. Evacuate
nonessential personnel to prevent exposure to
fire, smoke, fumes or products of combustion.

Material Safety Data Sheet

Effective Date: 11-DEC-2007
Product: SEED SHIELD

Fire and Expl Hazard: Irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

V. HEALTH HAZARD

Carcinogen Information: See note, Section IX.

ACUTE EFFECTS OF OVER EXPOSURE

Swallowing: Acute Oral LD50 (female rat) > 5,000 mg/kg.
Practically non-toxic by ingestion.
Skin Absorption: Acute Dermal LD50 (rat) > 5,050 mg/kg.
Practically non-toxic by skin absorption.
Inhalation: No Acute Inhalation LC50 data available.
Skin contact: Mild skin irritation may occur with skin contact. Not a skin sensitizer.
Eye Contact: In laboratory tests, this formulation was non-irritating to the eyes of test animals (rabbits).
Chronic Effects: In a 90-day feeding study of rats, liver toxicity was observed at 2,000 ppm for Azoxystrobin. Kidney and/or liver effects occurred for the other active ingredients after exposure to high doses (>5,000 ppm).
Other Hazard: Azoxystrobin, Difenoconazole and Fludioxonil are highly toxic to aquatic organisms, especially aquatic invertebrates.

EMERGENCY AND FIRST AID PROCEDURES

Swallowing: Call 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 by a doctor or poison control center.
Skin: Remove contaminated clothing. Rinse affected areas immediately with plenty of water, continuing for 15-20 minutes. Seek medical attention.
Inhalation: Move to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Seek medical attention if irritation persists.
Eyes: Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact

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lenses, if present, after first 5 minutes, then continue rinsing. Seek medical attention.

Notes to Physician: There is no specific antidote if this product is ingested. Treat symptomatically.

VI. REACTIVITY

Stability: Stable
Conditions to Avoid: None currently known.
Polymerization: Will Not Occur
Conditions to Avoid: None currently known.
Incompatibility material: None currently known.
Hazardous Combustion: May decompose at high temperatures forming toxic gases.

VII. SPILL OR LEAK PROCEDURES

Spill or Leak Proc: Contain spilled product to prevent spreading, contaminating soil or from entering drains or bodies of water. Cover spilled product with an absorbent material and place in suitable containers for proper disposal. Decontaminate spill area with a hard water detergent, such as Tide. Absorb wash water and place in same containers with recovered product. Hold for disposal.
Waste Disposal Method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

VIII. SPECIAL PROTECTION INFORMATION

Respiration: None needed under normal use conditions.
Ventilation: General and/or local exhaust should be sufficient.
Gloves: Chemical-resistant gloves.
Eyes: Chemical splash goggles.
Other: Coveralls, socks and chemical-resistant footwear.

IX. SPECIAL PRECAUTIONS

Special precaution: Keep out of reach of children. Do not store with food, feed or other material to be used or

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11-DEC-2007 15:44:02
Page 5 Of 5

Material Safety Data Sheet

Effective Date: 11-DEC-2007
Product: SEED SHIELD

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