1. PRODUCT IDENTIFICATION

Product Name: MAXIM MZ
EPA Signal Word: Caution

Active Ingredient(%): Fludioxonil (0.50%)
Chemical Name: 4-(2,2-difluoro-1,3-benzodioxol-4-yl)-1H-pyrrole-3-carbonitrile
Chemical Class: Substituted Benzodioxalcarbonitrile Fungicide

Active Ingredient(%): Mancozeb (5.70%)
Chemical Name: Zinc ion and manganese-ethylene-bis-dithio carbamate
Chemical Class: Dithiocarbamate Fungicide

EPA Registration Number(s): 100-1158

Section(s) Revised: New

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Material</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>NTP/IARC/OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc</td>
<td>20 mppcf (containing &lt;1% quartz) TWA</td>
<td>2 mg/m³ (respirable; &lt;1% crystalline silica) TWA</td>
<td>2 mg/m³ (respirable) TWA</td>
<td>IARC Group 3</td>
</tr>
<tr>
<td>Carrier</td>
<td>5 mg/m³ (respirable dust)</td>
<td>1 mg/m³ (total dust)</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Mancozeb (5.70%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>1 mg/m³ TWA*</td>
<td>No</td>
</tr>
<tr>
<td>Fludioxonil (0.50%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
</tbody>
</table>

* recommended by manufacturer

** recommended by NIOSH

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure
Causes mild eye and skin irritation.

Hazardous Decomposition Products
Can decompose at high temperatures forming toxic gases.

Physical Properties
Appearance: Tan solid
Odor: Odorless

Unusual Fire, Explosion and Reactivity Hazards
Spontaneous combustion may occur at high temperatures or when exposed to water (due to possible generation of carbon disulfide which is a flammable gas). Exposure to excessive heat or ignition sources presents a definite ignition hazard. Fire can occur in closely packed, unventilated piles of bags.

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 Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: Call Syngenta (800-888-8372), 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 calling 800-888-8372 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 Syngenta (800-888-8372), a poison control center or doctor for 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 Syngenta (800-888-8372), 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 Syngenta (800-888-8372), a poison control center or doctor for further treatment advice.

Notes to Physician

Medical Condition Likely to be Aggravated by Exposure

None known.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): Not Applicable
Flammable Limits (% in Air): Lower: % Not Applicable Upper: % Not Applicable
Autoignition Temperature: Not Available
Flammability: Not Flammable

Unusual Fire, Explosion and Reactivity Hazards

Spontaneous combustion may occur at high temperatures or when exposed to water (due to possible generation of carbon disulfide which is a flammable gas). Exposure to excessive heat or ignition sources presents a definite ignition hazard. Fire can occur in closely packed, unventilated piles of bags.

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 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. 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 it from spreading, contaminating soil, or entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. If a solid, sweep up material and place in a compatible disposal container. If a liquid, cover entire spill with absorbing material and place into 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, PACKAGING AND USE 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 chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Skin Contact: Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

Inhalation: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Tan solid
Odor: Odorless
Melting Point: Not Available
Boiling Point: Not Applicable
Specific Gravity/Density: 28.90 lbs/ft³ typical @ 68°F (20°C)

pH: 5 - 8 (1% dispersion in H2O @ 77°F (25°C) (typical)

Solubility in H2O
Fludioxonil: 1.8 mg/l @ 77°F (25°C)
Mancozeb: Dispersible

Vapor Pressure
Fludioxonil: 2.9 x 10(-9) mmHg @ 77°F (25°C)
Mancozeb: Negligible

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: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

Ingestion: Practically Non-Toxic
Oral (LD50 Rat) : > 5,000 mg/kg body weight

Dermal: Practically Non-Toxic
Dermal (LD50 Rat) : > 5,000 mg/kg body weight

Inhalation: Practically Non-Toxic
**12. ECOLOGICAL INFORMATION**

**Summary of Effects**
- **Fludioxonil:** Practically nontoxic to birds and bees, but highly toxic to aquatic invertebrates and fish.
- **Mancozeb:** Moderately toxic to fish. Highly toxic to invertebrates. Practically non-toxic to birds and bees.

**Eco-Acute Toxicity**
- **Mancozeb:** Bees LC50/EC50 193 ug/bee
  - Invertebrates (water flea) LC50/EC50 1.0 ppm
  - Fish (Trout) LC50/EC50 1.9 ppm
  - Fish (Bluegill) LC50/EC50 1.63 ppm
  - Birds (8-day dietary - Bobwhite Quail) LC50/EC50 > 6,400 ppm
  - Birds (8-day dietary - Mallard duck) LC50/EC50 > 6,400 ppm
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:** Not Applicable

**DOT Classification**
- Not regulated by DOT.

**B/L Freight Classification**
- Fungicides, NOIBN, o/t poison

**Comments**
- None.

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### 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.

**Eco-Chronic Toxicity**

**Mancozeb:**
- Not Available

**Fludioxonil:**
- Fish (Fathead minnow) Early Life Stage MATC 0.028 mg/l
- Invertebrate (Daphnia Magna) Life Cycle MATC 0.025 mg/l
- Mallard Reproduction NOEC 700 ppm
- Bobwhite Reproduction NOEC 125 ppm

**Environmental Fate**

**Fludioxonil:**
- No data available for the formulation. The information presented here is for the active ingredient, fludioxonil. A thorough review of environmental information is not possible in this document.
- Photolysis (Half-Life): Soil: 1 day. Water: 8 - 10 days.
- Leaching/Mobility: Low - Slight mobility (Koc = 2440 - 991).
- Soil Metabolism: Stable under anaerobic conditions.
- Action in Water (after 24 hrs.): Sinks.

**Mancozeb:**
- No data available for the formulation. The information presented here is for the active ingredient, mancozeb. A thorough review of environmental information is not possible in this document.
- Persistence (Half-Life): Soil: 6 - 15 days. Water: 20 days @ pH 5; 17 hours @ pH 7; 34 hours @ pH 9.
- Leaching/Mobility: Slight mobility (Koc = > 2,000).
- Action in Water (after 24 hours): Sinks.

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### 14. TRANSPORT INFORMATION

**DOT Classification**
- Not regulated by DOT.

**B/L Freight Classification**
- Fungicides, NOIBN, o/t poison

**Comments**
- None.

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### 15. REGULATORY INFORMATION

**EPCRA SARA Title III Classification**
- Section 311/312 Hazard Classes: Acute Health Hazard
- Chronic Health Hazard

- Section 313 Toxic Chemicals: Mancozeb (5.70%) (CAS No. 8018-01-7)
California Proposition 65
WARNING: This product contains a chemical (mancozeb) known to the State of California to cause cancer.
This product contains a chemical (ethylene thiourea) known to the State of California to cause cancer and birth defects or other reproductive harm.

CERCLA/SARA 302 Reportable Quantity (RQ)
None

RCRA Hazardous Waste Classification (40 CFR 261)
Not Applicable

TSCA Status
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Hazard Ratings</th>
<th>HMIS Hazard Ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health:</td>
<td>2</td>
</tr>
<tr>
<td>Flammability:</td>
<td>1</td>
</tr>
<tr>
<td>Instability:</td>
<td>0</td>
</tr>
</tbody>
</table>

For non-emergency questions about this product call:
1-800-334-9481

Original Issued Date: 01/14/2003
Revision Date: Replaces:

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.

RSVP# : Not Applicable

End of MSDS