1. PRODUCT IDENTIFICATION

Product Name: APRON MAXX RTA FUNGICIDE

EPA Signal Word: Caution

Active Ingredient(%): Fludioxonil (0.77%)
Chemical Name: 4-(2,2-difluoro-1,3-benzodioxol-4-yl)-1H-pyrrole-3-carbonitrile
Chemical Class: Substituted Benzodioxalcarbonitrile Fungicide

Active Ingredient(%): Mefenoxam (1.14%)
Chemical Name: (R)-2-[(2,6-dimethylphenyl)-methoxyacetylamino]-propionic acid methyl ester
Chemical Class: Phenylamide Fungicide

EPA Registration Number(s): 100-946

Section(s) Revised: All sections

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Material</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other</th>
<th>NTP/ARC/OSHA Carcinogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable)</td>
<td>10 mg/m³ TWA (total dust)</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Mefenoxam (1.14%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Fludioxonil (0.77%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
</tbody>
</table>

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

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure
May cause eye irritation.

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

Physical Properties
Appearance: Blue liquid
Odor: Water-based paint

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 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.
5. **FIRE FIGHTING MEASURES**

**Fire and Explosion**

Flash Point (Test Method): >210°F  
Flammable Limits (% in Air): Lower: % Not Applicable  Upper: % Not Applicable  
Autoignition Temperature: Not Available  
Flammability: Not Flammable

**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 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.
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue liquid
Odor: Water-based paint
Melting Point: Not Applicable
Boiling Point: Not Available
Specific Gravity/Density: 1.04 g/ml @ 68°F (20°C)
pH: 5-7(1% solution in H2O)

Solubility in H2O
Fludioxonil: 1.8mg/l @ 77°F (25°C)
Mefenoxam: 26g/l @ 77°F (25°C)

Vapor Pressure
Fludioxonil: 2.9 x 10(-9) mmHg @ 77°F (25°C)
Mefenoxam: 2.5 x 10(-5) mmHg @ 77°F (25°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.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)
Ingestion: Practically Non-Toxic
Oral (LD50 Rat) : > 5,050 mg/kg body weight
Dermal: Slightly Toxic
Dermal (LD50 Rabbit) : > 2,020 mg/kg body weight
Inhalation: Practically Non-Toxic
Inhalation (LC50 Rat) : > 3.04 mg/l air - 4 hours
Eye Contact: Mildly Irritating (Rabbit)
Skin Contact: Non-Irritating (Rabbit)
Skin Sensitization: Not a Sensitizer (Guinea Pig)

Reproductive/Developmental Effects
Fludioxonil: Delayed development at doses causing maternal toxicity.
Mefenoxam: None observed.

Chronic/Subchronic Toxicity Studies

Product Name: APRON MAXX RTA FUNGICIDE
### 12. ECOLOGICAL INFORMATION

#### Summary of Effects

**Fludioxonil:** Practically non-toxic to birds, but highly toxic to aquatic invertebrates and fish.

**Mefenoxam:** Practically non-toxic to birds, invertebrates and fish.

#### Eco-Acute Toxicity

**Mefenoxam:**
- Water Flea LC50/EC50 > 113 ppm
- Birds (Bobwhite Quail/Mallard Duck) 8-day dietary LC50/EC50 > 5,620 ppm
- Bees LC50/EC50 > 25 ug/bee
- Fish (Trout/Bluegill) LC50/EC50 > 121 ppm

**Fludioxonil:**
- Rainbow Trout 96-hour LC50 0.47 mg/l
- Bluegill Sunfish 96-hour LC50 0.74 mg/l
- Daphnia magna 48-hour LC50 0.90 mg/l
- Bobwhite Oral LD50 >2,000 mg/kg
- Mallard Oral LD50 >2,000 mg/kg
- Bobwhite 8-day Dietary LC50 >5,200 ppm
- Mallard 8-day Dietary LC50 >5,200 ppm

#### Eco-Chronic Toxicity

**Mefenoxam:** 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.
- Stable in sterile water, in the dark at pH 5, 7 and 9. Degradates rapidly in the light at pH 7 (t1/2 ~ <10 d). Degradates in aerobic soil more rapidly in the light (t1/2 = 1 d), than in the dark (t1/2 ~ 6 mo). Stable in soil under anaerobic conditions.

**Mefenoxam:**
- Water Flea LC50/EC50  > 113 ppm
- Birds (Bobwhite Quail/Mallard Duck) 8-day dietary LC50/EC50  > 5,620 ppm
- Bees LC50/EC50  > 25 ug/bee
- Fish (Trout/Bluegill) LC50/EC50  > 121 ppm

**Glycerin:**
- Practically nontoxic to birds, but highly toxic to aquatic invertebrates and fish.
- Repeated or prolonged exposure to concentrated solutions may result in dermatitis.

### Carcinogenicity

**Fludioxonil:** Marginal increase (7%) of liver tumors (female, rats: 3,000 ppm); Within historical control range (1 to 10%).

**Mefenoxam:** None observed.

### Other Toxicity Information

None.

### Toxicity of Other Components

**Glycerin:**
- Repeated or prolonged exposure to concentrated solutions may result in dermatitis.

### Target Organs

<table>
<thead>
<tr>
<th>Active Ingredients</th>
<th>Liver, kidney</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fludioxonil</td>
<td>Liver</td>
</tr>
<tr>
<td>Mefenoxam</td>
<td>Liver</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inert Ingredients</th>
<th>Skin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerin</td>
<td>Skin</td>
</tr>
</tbody>
</table>

**Fludioxonil:** Liver and kidneys toxicity high dose levels.

**Mefenoxam:** Liver effects at high dose levels.
conditions. Low to slight mobility with various soils (Koc 991-2440). Some bioaccumulation (BCF= 366X, whole fish).

Mefenoxam:

No data available for the formulation. The information presented here is for the active ingredient, mefenoxam. A thorough review of environmental information is not possible in this document.

Based on the metalaxyl database, mefenoxam would not be expected to degrade in water. Degrades moderately in soil under aerobic conditions (t1/2 ~ 70 d). Mobility classified as very high to low in various soils (Koc 20 to 1299).

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: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification

Not regulated by DOT.

B/L Freight Classification

Fungicides, NOIBN, o/t poison

Comments

None.

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: Not Applicable

California Proposition 65

Not Applicable

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>
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</tr>
<tr>
<td>Flammability:</td>
<td>1</td>
</tr>
<tr>
<td>Instability:</td>
<td>0</td>
</tr>
<tr>
<td>Health:</td>
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<tr>
<td>Flammability:</td>
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<tr>
<td>Reactivity:</td>
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</tbody>
</table>

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 03/03/2000

Revision Date: 09/26/2002

Replaces: 10/19/2000

Product Name: APRON MAXX RTA FUNGICIDE
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# : SCP-955-00223C

End of MSDS