1. PRODUCT IDENTIFICATION

Product Name: APRON MAXX RFC  
EPA Signal Word: Caution  
Active Ingredient(%): Fludioxonil (2.31%)  
Chemical Name: 4-(2,2-difluoro-1,3-benzodioxol-4-yl)-1H-pyrrole-3-carbonitrile  
Chemical Class: Substituted Benzodioxalcarbonitrile Fungicide  
Active Ingredient(%): Mefenoxam (3.46%)  
Chemical Name: (R,S)-2-[(2,6-dimethylphenyl)-methoxyacetylamino]-propionic acid methyl ester  
Chemical Class: Phenylamide Fungicide  
EPA Registration Number(s): 100-1195  
Syngenta Hazard Category: C, S  
Section(s) Revised: 1, 2

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>Propylene Glycol</td>
<td>Not Established</td>
<td>Not Established</td>
<td>50 ppm TWA ****</td>
<td>No</td>
</tr>
<tr>
<td>Mefenoxam (3.46%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Fludioxonil (2.31%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>10 mg/m³ TWA***</td>
<td>No</td>
</tr>
</tbody>
</table>

*** Syngenta Occupational Exposure Limit (OEL)  
**** Recommended by AIHA (American Industrial Hygiene Association)

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.  
Syngenta Hazard Category: C, S

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure  
May cause skin irritation. Allergic skin reactions are possible.

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

Physical Properties  
Appearance: Blue to dark blue liquid  
Odor: Aromatic  
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.
5. FIRE FIGHTING MEASURES

Fire and Explosion

- **Flash Point (Test Method):** > 230°F
- **Flammable Limits (% in Air):** Lower: % Not Applicable  Upper: % Not Applicable
- **Autoignition Temperature:** 842 °F
- **Flammability:** Not Applicable

**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 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. 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

- **Max. Storage Temp:** 95°F
- **Min. Storage Temp:** 14°F

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.

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: 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, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance: Blue to dark blue liquid
- Odor: Aromatic
- Melting Point: Not Applicable
- Boiling Point: Not Available
- Specific Gravity/Density: 1.06 - 1.10 g/ml @ 68°F (20°C)
- pH: 3 - 7 (1% in deionized water)
- Solubility in H2O
  - Fludioxonil: 1.8 mg/l @ 77°F (25°C)
  - Mefenoxam: 26 g/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.
- Hazardous Decomposition Products: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity/Irritation Studies (Finished Product)

- Ingestion: Slightly Toxic
  - Oral (LD50 Rat) : > 5,050 mg/kg body weight
- Dermal: Practically Non-Toxic
  - Dermal (LD50 Rabbit) : > 5,000 mg/kg body weight
- Inhalation: Practically Non-Toxic
  - Inhalation (LC50 Rat) : > 5.42 mg/l air - 4 hours
- Eye Contact: Non-Irritating (Rabbit)
- Skin Contact: Slightly Irritating (Rabbit)
- Skin Sensitization: Sensitizing (Guinea Pig)

Reproductive/Developmental Effects

- Fludioxonil: Delayed development at doses causing maternal toxicity.
- Mefenoxam: None observed.
12. ECOLOGICAL INFORMATION

Summary of Effects

Fludioxonil: Practically nontoxic to birds and bees, but highly toxic to aquatic invertebrates and fish.
Mefenoxam: Practically non-toxic to aquatic organisms and wildlife.

Eco-Acute Toxicity

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

Fludioxonil: Bees LC50/EC50 > 25 ug/bee
Invertebrates (Water Flea) LC50/EC50 0.90 ppm
Fish (Trout) LC50/EC50 0.47 ppm
Fish (Bluegill) LC50/EC50 0.74 ppm
Birds (8-day dietary - Bobwhite Quail) LC50/EC50 > 5,200 ppm
Birds (8-day dietary - Mallard Duck) LC50/EC50 > 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: The information presented here is for the active ingredient, fludioxonil.
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
Ground Transport - NAFTA
Not regulated.

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
Chronic 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

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

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

0 Minimal
1 Slight
2 Moderate
3 Serious
4 Extreme

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

Original Issued Date: 04/22/2003
Revision Date: 10/22/2004
Replaces: 08/10/2004

Product Name: APRON MAXX RFC
RSVP# : Not Applicable

End of MSDS