MATERIAL SAFETY DATA SHEET

SYNGENTA CROP PROTECTION, INC
Post Office Box 18300
Greensboro, NC 27419

1. CHEMICAL IDENTIFICATION

Product Name: PRIMO MAXX
EPA Signal Word: Caution
Active Ingredient(%): Trinexapac-ethyl (11.3%)
Chemical Name: 4-(Cyclopropyl-a-hydroxymethylene)-3,5-dioxo-cyclohexanecarboxylic acid ethylester
Chemical Class: Cyclopropyl Derivative of Cyclohexenone Plant Growth Inhibitor

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>Tetrahydrofurfuryl Alcohol</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Surfactant</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Trinexapac-ethyl (11.3%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure
Exposure may cause moderate irritation to eyes. Prolonged inhalation may cause headache, dizziness, blurred vision or nausea.

Hazardous Decomposition Products
None Known

Physical Properties
Appearance: Amber Liquid
Odor: Odorless

Unusual Fire, Explosion and Reactivity Hazards
This product is a NFPA Class IIIA Combustible Liquid.

4. FIRST AID MEASURES

If poisoning is suspected, immediately contact a physician, the nearest hospital, or the nearest Poison Control Center. Tell the person contacted the complete product name, and the type and amount of exposure. Describe any symptoms and follow the advice given.

Ingestion: DO NOT INDUCE VOMITING. If victim is fully conscious, give a large quantity of water to drink and get medical attention. Never give anything by mouth to an unconscious person.

Eye Contact: Immediately rinse eyes with a large amount of running water. Hold eye lids apart to rinse the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician.

Skin Contact: Wash with plenty of soap and water, including hair and under fingernails. Do not apply any medicating agents.
5. FIRE FIGHTING MEASURES

Fire and Explosion
- Flash Point (Test Method): 170 °F
- Flammable Limits (% in Air): Lower: %; Upper: % Not Available
- Autoignition Temperature: Not Available
- Flammability: Not Applicable

Unusual Fire, Explosion and Reactivity Hazards
This product is a NFPA Class IIIA Combustible Liquid.

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.

6. ACCIDENTAL RELEASE MEASURES

In Case of Spill or Leak
- Wear chemical safety glasses with side shields or chemical goggles, rubber gloves, rubber boots, long-sleeved shirt, long pants, head covering, and a NIOSH-approved supplied-air respirator or a self-contained breathing apparatus (SCBA). For small spills, cover with an absorbent material such as pet litter. Sweep up and place in an approved chemical container.
- Wash the spill area with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container. Seal the container and handle in an approved manner. Flush the area with water to remove any residue. Do not allow wash water to contaminate water supplies.

7. HANDLING AND STORAGE

Store the material in a well-ventilated, secure area out of the reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco usage, and cosmetic application in areas where there is a potential for exposure to the material. Always wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT.
FOR COMMERCIAL APPLICATIONS AND 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. Always wash thoroughly after handling.

Eye Contact: To avoid eye contact, wear safety glasses with side shields or chemical goggles.

Skin Contact: To avoid skin contact, wear rubber gloves, rubber boots, long-sleeved shirt, long pants and a head covering.

Inhalation: To avoid breathing mist or vapors, wear a NIOSH-approved supplied-air respirator or a self-contained breathing apparatus (SCBA).
11. TOXICOLOGICAL INFORMATION

**Acute Toxicity/Irritation Studies**
- **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:** Slightly Toxic
  - Inhalation LC50 (Rat): > 2.75 mg/l air - 4 hours
- **Eye Contact:** Moderately Irritating (Rabbit)
- **Skin Contact:** Non-Irritating (Rabbit)
- **Skin Sensitization:** Not a Sensitizer (Guinea Pig)

**Mutagenic Potential**
- Trinexapac-ethyl: None observed

**Reproductive Hazard Potential**
- Trinexapac-ethyl: None observed

**Chronic/Subchronic Toxicity Studies**
- Trinexapac-ethyl: Liver, kidney and brain (dogs) effects at high doses (>5,000 ppm)

**Carcinogenic Potential**
- Trinexapac-ethyl: Slight increase in stomach tumors in male mice at high doses (2,000 ppm)

**Other Toxicity Information**
- Not Available

**Toxicity of Other Components**
- **Surfactant**
  - Exposure can result in eye and skin irritation.
- **Tetrahydrofurfuryl Alcohol**
  - Acute exposure causes slight irritation of the skin. Prolonged exposure may cause mild nervous system effects.

**Target Organs**
- **Active Ingredients**
  - Trinexapac-ethyl: Liver, Kidney, and Brain
12. ECOLOGICAL INFORMATION

Summary of Effects

Trinexapac-ethyl:
Low toxicity to fish and wildlife

Eco-Acute Toxicity

Trinexapac-ethyl: Rainbow Trout 96-hour LC50  68 mg/L
Bluegill Sunfish 96-hour LC50 >130.1 mg/L
Daphnia magna 48-hour LC50 EC=>142.5 mg/L
Bobwhite Oral LD50 >2,250 mg/kg
Mallard Oral LD50 >2,000 mg/kg
Bobwhite 8-day Dietary LC50 >5,620 ppm
Mallard 8-day Dietary LC50 >5,200 ppm

Eco-Chronic Toxicity

Trinexapac-ethyl: Fish (Fathead minnow) Early Life Stage MATC >0.41 and <0.80 mg/L
Invertebrate (Daphnia Magna) Life Cycle MATC >2.4 and <5.1 mg/L
Mallard Reproduction NOEC 600 ppm
Bobwhite Reproduction NOEC 600 ppm

Environmental Fate

Trinexapac-ethyl:
No data available for the formulation. The information presented here is for the active ingredient, trinexapac-ethyl. A thorough review of environmental information is not possible in this document. For additional information call the toll free number listed in Section 16.

ENVIRONMENTAL PERSISTANCE/MOBILITY:
Stable in sterile water, in the dark at pH 5 and 7, degrades rapidly at pH 9 (t1/2 = 8 d). Degradates more rapidly in the light at pH 7 (t1/2 ~ < 4 d) than in the dark. In laboratory soil, degrades very rapidly in the both the dark and light under aerobic conditions (t1/2 ~ < 1 d). Degradates more slowly under anaerobic conditions (t1/2 ~ 13 to 22 d). High to low mobility with four soil textures (Koc = 59 to 629).

13. DISPOSAL CONSIDERATION

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:
Containers < 119 gallons cap: Not Regulated
Containers > 119 gallons cap: Combustible liquid, n.o.s. (tetrahydrofurfuryl alcohol), NA1993, PGIII

B/L Freight Classification
Plant Growth Inhibitor, Modifier, or Regulator
International Transportation
Not Applicable

15. REGULATORY INFORMATION
Proposition 65
Not Applicable

CERCLA Reportable Quantity (RQ)
None

RCRA Classification
Not Applicable

TSCA Status
Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

<table>
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<tr>
<th>NFPA Hazard Ratings</th>
<th>0 Least</th>
<th>1 Slight</th>
<th>2 Moderate</th>
<th>3 High</th>
<th>4 Severe</th>
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</thead>
<tbody>
<tr>
<td>Health:</td>
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<td>Flammability:</td>
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<td>Reactivity:</td>
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<td>0</td>
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Questions concerning the safe handling of the product should be referred to:

1-800-334-9481

Issued Date: 10/6/1998
Revised Date: 7/5/2000

Supersedes:

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.

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