1. PRODUCT IDENTIFICATION

Product identifier on label: **SUBDUE MAXX®**
Use: Fungicide
Product No.: A9619C
Manufacturer: Syngenta Crop Protection, LLC
Post Office Box 18300
Greensboro NC 27419
Manufacturer Phone: 1-800-334-9481
Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications:
Not Applicable

Signal Word (OSHA):
Not Applicable

Hazard Statements:
Not Applicable

Hazard Symbols:

Precautionary Statements:
Not Applicable

Other Hazard Statements:
None

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Common Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other ingredients</td>
<td>Other ingredients</td>
<td>Trade Secret</td>
<td>78.0%</td>
</tr>
<tr>
<td>(R,S)-2-[(2,6-dimethylphenyl)-methoxyacetylamino]-propionic acid methyl ester</td>
<td>Mefenoxam</td>
<td>70630-17-0 &amp; 69516-34-3</td>
<td>22.0%</td>
</tr>
</tbody>
</table>

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

4. FIRST AID MEASURES

Have the product container, label or 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. Do not give any liquid to the person. Do not induce vomiting unless told to do so after calling 800-888-
5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:
Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:
During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:
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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:
Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:
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 in Protective Equipment Section. 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

Precautions for safe handling:
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.

Conditions for safe storage, including any incompatibilities:
Not Applicable
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

- **Chemical Name** | **OSHA PEL** | **ACGIH TLV** | **Other** | **Source**
- Other ingredients | Not Applicable | Not Applicable | Not Applicable | Not Applicable
- Mefenoxam | Not Established | Not Established | 5 mg/m³ TWA | Syngenta

**Appropriate engineering controls:**
Use effective engineering controls to comply with occupational exposure limits (if applicable).

**Individual protection measures:**

- **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.

- **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:** Amber liquid
- **Odor:** Sweet and waxy
- **Odor Threshold:** Not Available
- **pH:** 7 - 9 (1% solution in H₂O @ 77°F (25°C))
- **Melting point/freezing point:** Not Applicable
- **Initial boiling point and boiling range:** Not Available
- **Flash Point (Test Method):** > 200°F
- **Flammable Limits (% in Air):** Not Available
- **Flammability:** Not Applicable
- **Vapor Pressure:** Mefenoxam 2.5 x 10⁻⁵ mmHg @ 77°F (25°C)
- **Vapor Density:** Not Available
- **Relative Density:** 1.102 g/ml; 9.196 lb/gal @ 68°F
- **Solubility (ies):** Mefenoxam 26 g/l @ 77°F (25°C)
- **Partition coefficient:** n-octanol/water: Not Available
10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
Chemical stability: Stable under normal use and storage conditions.
Possibility of hazardous reactions: Will not occur.
Conditions to Avoid: None known.

Incompatible materials: None known.
Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

Health effects information
Likely routes of exposure: Dermal, Inhalation
Symptoms of exposure: Not Applicable
Delayed, immediate and chronic effects of exposure: Not Applicable

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

- Ingestion: Oral (LD50 Female Rat) : 2965 mg/kg body weight
- Dermal: Dermal (LD50 Rat) : > 5050 mg/kg body weight
- Inhalation: Inhalation (LC50 Rat) : > 2.8 mg/l air - 4 hours
- Eye Contact: Moderately Irritating (Rabbit)
- Skin Contact: Practically Non-Irritating (Rabbit)
- Skin Sensitization: Not a Sensitizer (Guinea Pig)

Reproductive/Developmental Effects
Mefenoxam: None observed.

Chronic/Subchronic Toxicity Studies
Mefenoxam: Liver effects at high dose animal tests.

Carcinogenicity
Mefenoxam: None observed.
SUBDUE MAXX®

Date: 8/3/2015
Replaces: 3/3/2015

Chemical Name: NTP/IARC/OSHA Carcinogen

Other ingredients: No
(R,S)-2-[(2,6-dimethylphenyl)methoxyacetylamo]propionic acid methyl ester: No

Other Toxicity Information
None

Toxicity of Other Components
Other ingredients: Not Applicable

Target Organs
Active Ingredients
Mefenoxam: Liver

Inert Ingredients
Other ingredients: Not Applicable

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity
Mefenoxam:
Fish (Rainbow Trout) 96-hour LC50 > 121 ppm
Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 > 113 ppm
Bird (Bobwhite Quail) 14-day LD50 981 mg/kg

Environmental Fate
Mefenoxam:
The information presented here is for the active ingredient, mefenoxam. Does not bioaccumulate. Not persistent in soil or water. Moderate mobility in soil. Mixes/sinks (after 24 h).

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

Comments
Water Transport - International
Not regulated
SUBDUE MAXX®

Date:  8/3/2015
Replaces:  3/3/2015

15. REGULATORY INFORMATION

Pesticide Registration:
This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

EPA Registration Number(s):
100-796

EPCRA SARA Title III Classification:
Section 311/312 Hazard Classes: Acute Health Hazard
Section 313 Toxic Chemicals: None

California Proposition 65:
This product does not contain chemical(s) known to the State of California to cause cancer and birth defects or other reproductive harm.

CERCLA/SARA 304 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></th>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute</td>
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<td>3</td>
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<tr>
<td>Health</td>
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<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Toxicity</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Syngenta Hazard Category: A

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

Original Issued Date:  4/9/1996
Revision Date:  8/3/2015
Replaces:  3/3/2015
Section(s) Revised:  2, 4, 11, 16

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