1. PRODUCT IDENTIFICATION

Product Name: SUPREND
EPA Signal Word: Caution

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>Kaolin Clay</td>
<td>15 mg/m³ TWA (total); 5 mg/m³ TWA (respirable)</td>
<td>2 mg/m³ TWA (respirable)</td>
<td>10 mg/m³ TWA (total); 5 mg/m³ TWA (respirable)**</td>
<td>No</td>
</tr>
<tr>
<td>Crystalline Silica, Quartz</td>
<td>10 mg/m³ (%SiO2+2) (respirable dust)</td>
<td>0.05 mg/m³ (respirable silica)</td>
<td>0.05 mg/m³ (respirable dust)**</td>
<td>IARC Group 2A</td>
</tr>
<tr>
<td>Stabilizer</td>
<td>15 mg/m³ particulates not otherwise regulated (total particulates); 5 mg/m³ (respirable)</td>
<td>10 mg/m³ particulates not otherwise classified (inhalable); 3 mg/m³ (respirable)</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Prometryn (79.30%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
<td>No</td>
</tr>
<tr>
<td>Trifloxysulfuron-Sodium (0.70%)</td>
<td>Not Established</td>
<td>Not Established</td>
<td>10 mg/m³ TWA***</td>
<td>No</td>
</tr>
</tbody>
</table>

** recommended by NIOSH
*** Syngenta Occupational Exposure Limit (OEL)

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

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: Light brown to brown granules
Odor: Not determined
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 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 in Protective Equipment Section. Sweep up material and place in a 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.

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, or P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light brown to brown granules
Odor: Not determined
Melting Point: Not Available
Boiling Point: Not Applicable
Specific Gravity/Density: 0.50 g/cm³
pH: 7 - 11 (1% w/w dilution in deionized water)

Solubility in H₂O
Prometryn: 33 mg/l @ 72°F (22°C)
Trifloxysulfuron-Sodium: 102.5 mg/l @ 77°F (25°C) (pH 5.4)

Vapor Pressure
Prometryn: 1.24 x 10⁻⁶ mmHg @ 77°F (25°C)
Trifloxysulfuron-Sodium: 7.5 x 10⁻⁸ 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): > 2,000 mg/kg body weight

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

Inhalation:
- Practically Non-Toxic
  - Inhalation (LC₅₀ Rat): > 5.14 mg/l air - 4 hours

Eye Contact: Mildly Irritating (Rabbit)
Skin Contact: Slightly Irritating (Rabbit)
Skin Sensitization: Not a Sensitizer (Guinea Pig)
Prometryn: None observed.

Chronic/Subchronic Toxicity Studies
Prometryn: Liver, kidney and bone marrow changes at highest dose (dogs); Kidney effects (rats).
Trifloxysulfuron-Sodium: Not Available

Carcinogenicity
Prometryn: None observed.
Trifloxysulfuron-Sodium: Not Available

Other Toxicity Information
None

Toxicity of Other Components

Prometryn: Practically non-toxic to fish, invertebrates, birds and bees.
Trifloxysulfuron-Sodium: Practically non-toxic to fish, invertebrates, birds and bees.

Kaolin Clay
Long term exposure to high concentrations of this dust may produce x-ray evidence of dust in the lungs. Continued long term overexposure may affect respiratory function in some individuals.

Stabilizer
Effects of overexposure: No information found for this material. It is anticipated that inhalation of significant quantities of this material will produce decreased lung capacity as is typical of nuisance dusts. Individuals who are sensitized to formaldehyde might exhibit allergic reactions from contact with this material.

Target Organs

Active Ingredients
Prometryn: Liver, kidney, bone marrow
Trifloxysulfuron-Sodium: Not Available

Inert Ingredients
Kaolin Clay: Lung
Stabilizer: Lung

12. ECOLOGICAL INFORMATION

Summary of Effects
Prometryn: Practically nontoxic to birds. Slightly toxic to aquatic invertebrates and moderately toxic to fish.
Trifloxysulfuron-Sodium: Practically non-toxic to fish, invertebrates, birds and bees.

Eco-Acute Toxicity
Prometryn: Bees LC50/EC50 > 97 ug/bee
Invertebrates (Water Flea) LC50/EC50 18.6 ppm
Fish (Trout) LC50/EC50 2.9 ppm
Fish (Bluegill) LC50/EC50 10 ppm
Birds (8-day dietary - Bobwhite Quail) LC50/EC50 > 5,000 ppm
Birds (8-day dietary - Mallard Duck) LC50/EC50 > 42,766

Trifloxysulfuron-Sodium: Bees LC50/EC50 > 25 ug/bee
Invertebrates (Water Flea) LC50/EC50 > 108 ppm
Fish (Trout) LC50/EC50 103 ppm
Fish (Bluegill) LC50/EC50 103 ppm
Birds (8-day dietary - Bobwhite Quail) LC50/EC50 5,620 ppm
Birds (8-day dietary - Mallard Duck) LC50/EC50 5,620 ppm
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
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Prometryn, Trifloxysulfuron-Sodium)
Hazard Class or Division: Class 9
Identification Number: UN 3077
Packing Group: PG III

B/L Freight Classification
Herbicides, NOIBN

Comments
Water Transport - International
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Prometryn, Trifloxysulfuron-Sodium)
Hazard Class or Division: Class 9
Identification Number: UN 3077
Packing Group: PG III

Air Transport - International
Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S. (Prometryn, Trifloxysulfuron-Sodium)
Hazard Class or Division: Class 9
Identification Number: UN 3077
Packing Group: PG III

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification
Section 311/312 Hazard Classes: Acute Health Hazard
Section 313 Toxic Chemicals: Prometryn (79.30%) (CAS No. 7287-19-6)

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>
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<tbody>
<tr>
<td>Health:</td>
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<tr>
<td>Flammability:</td>
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<tr>
<td>Instability:</td>
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<table>
<thead>
<tr>
<th>Rating</th>
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<tr>
<td>4</td>
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For non-emergency questions about this product call:
1-800-334-9481

Original Issued Date: 08/18/2003
Revision Date: 10/12/2004
Replaces: 03/05/2004

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-955-00398C

End of MSDS