**Section 1: Product and Company Identification**

- **Product Name:** Advantage II
- **Material Number:** 83000490
- **Chemical Name:**
- **Formula:**

**Section 2: Composition/Information on Ingredients**

**HAZARDOUS INGREDIENTS**

<table>
<thead>
<tr>
<th>Ingredient Name/ CAS Number</th>
<th>Exposure Limits</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OSHA (PEL):</td>
<td>Min.</td>
</tr>
<tr>
<td>Aromatic alcohol</td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td>CAS# is a trade secret</td>
<td>ACGIH (TLV):</td>
<td>Max.</td>
</tr>
<tr>
<td></td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td>Carbonate derivative</td>
<td>OSHA (PEL):</td>
<td></td>
</tr>
<tr>
<td>CAS# is a trade secret</td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH (TLV):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td>Imidacloprid 138261-41-3</td>
<td>OSHA (PEL):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH (TLV):</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Not Established</td>
<td></td>
</tr>
<tr>
<td>Pyriproxyfen 95737-68-1</td>
<td>OSHA (PEL):</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACGIH (TLV):</td>
<td></td>
</tr>
</tbody>
</table>

**TRANSPORTATION EMERGENCY**
- CALL CHEMTREC ........ : (800) 424-9300
- INTERNATIONAL .......... : (703) 527-3887

**NON-TRANSPORTATION**
- BAYER EMERGENCY PHONE : (800) 422-9874
- BAYER INFORMATION PHONE: (800) 633-3796
Section 3: Hazards Identification

EMERGENCY OVERVIEW

CAUTION!  Color: Light tan to light yellow  Form: Liquid Pipettes  Odor: Mild
May cause respiratory tract irritation. Inhalation may cause nausea or dizziness. May cause eye irritation.

POTENTIAL HEALTH EFFECTS

Route(s) of Entry:  Eye Contact, Inhalation, Skin Contact

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Inhalation Hazards
Acute Inhalation Hazards:  May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose. Overexposure to vapor may produce dizziness, drowsiness, or nausea.

Skin Hazards
Acute Skin Hazards:  May cause slight irritation.

Eye Hazards
Acute Eye Hazards:  May cause irritation with symptoms of reddening, tearing and stinging.

Ingestion Hazards
Acute Ingestion Hazards:  Moderately toxic by ingestion.

General Effects of Exposure
Chronic Effects of Exposure:  Prolonged contact with this product may cause defatting of the skin due to the solvent component in the product.

Carcinogenic Components:
NTP:  None
IARC:  None
OSHA:  None

Medical Conditions
Aggravated by Exposure:  Eye disorders, Skin disorders, Respiratory tract disorders

Section 4: First Aid Measures

First Aid for Eye:  Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention if irritation develops or persists.

First Aid for Skin:  In case of skin contact, wash affected areas with soap and water.
Contact a physician if irritation develops.

**First Aid for Inhalation:** If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Call a physician.

**First Aid for Ingestion:** Contact a physician or Poison Control Center. Give two glasses of water for dilution. Avoid alcohol. If ingested, do not induce vomiting unless directed to do so by medical personnel. Do not give anything by mouth to an unconscious person.

**Note to Physician:** In case of human or animal poisoning, please contact the Poison Control Center at (800)938-3578. Please also notify Bayer at (800)422-9874.

### Section 5: Fire Fighting Measures

**Flash Point:** > 200 °F

**Flammable Limits:**

- **Upper Explosion Limit (UEL %):** Not Established
- **Lower Explosion Limit (LEL %):** Not Established

**Extinguishing Media:**

- Suitable: Water, Carbon Dioxide, Dry Chemical, Foam

**Special Fire Fighting Procedures:** Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Do not allow fire fighting water to enter sewer, surface waters, or ground water systems. Equipment and materials used in fighting pesticide fires may become contaminated.

### Section 6: Accidental Release Measures

**Spill or Leak Procedures:** Evacuate and keep unnecessary people out of spill area. Use appropriate personal protective equipment during clean up. Recover uncontaminated product, if possible. Cover spill with inert material (e.g., dry sand or earth) and collect for proper disposal. Wash spill area with soap and water. Soil, absorbents, and other materials that are contaminated by the spilled product should be collected for proper disposal. Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems.

### Section 7: Handling and Storage

**Shelf Life:** Not Established

**Handling/Storage Precautions:** Store in a dry place in original or waterproof containers. Avoid contact with eyes. Avoid excessive contact with skin or clothing.
Protect from freezing.

Section 8: Exposure Controls/Personal Protection

**Personal Protection Equipment**

**Eye Protection Requirements:** Chemical safety goggles or glasses.

**Skin Protection Requirements:** Gloves, long sleeved shirts and pants.

**Ventilation Requirements:** Under normal conditions of use, special ventilation is not required.

**Respirator Requirements:** A NIOSH approved respirator for pesticides can be used to minimize exposure.

**Additional Protective Measures:** Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions. Launder clothing separately after use. Employees should wash their hands and face before eating, drinking, or using tobacco products.

Section 9: Physical and Chemical Properties

**Physical Form:** Liquid

**Appearance:** Pipettes

**Color:** Light tan to light yellow

**Odor:** Mild

**Odor Threshold:** Not Established

**pH:** Not Applicable

**Boiling Point:** Not Established

**Melting/Freezing Point:** Not Established

**Solubility in Water:** Soluble

**Bulk Density:** 9.1 lb/gal

**Vapor Pressure:** Not Established

**Vapor Density:** Not Established

Section 10: Stability and Reactivity

**Stability:** Stable

**Hazardous Polymerization:** Will not occur

**Substances to Avoid:** Oxidizing agents

**Conditions to Avoid:** Avoid extreme heat.

** Decomposition Products:** Carbon monoxide, Carbon Dioxide, Oxides of Nitrogen, Hydrogen cyanide, Hydrogen chloride
Section 11: Toxicological Information

**Toxicity Data for Advantage II**

**Acute oral toxicity:**
- LD50 = 1,943 mg/kg bw (Male Rat)
- LD50 = 1,732 mg/kg bw (Female Rat)

**Acute dermal toxicity:**
- LD50 > 2,000 mg/kg bw (Rat)

**Acute inhalation toxicity:**
- > 2,415 mg/m³, 4 hrs, (Rat)

**Eye Irritation:**
- Moderately irritating (Rabbit)

**Skin Irritation:**
- Slightly irritating (Rabbit)

**Sensitization:**
- Non-sensitizer (Guinea pig)

Section 12: Ecological Information

**Ecological Data for Advantage II**

**Ecological Data for Aromatic alcohol**

Ecological Note: No data available for this component.

**Ecological Data for Carbonate derivative**

**Fish Toxicity:**
- LC50 > 1,000 mg/L, 48 hrs. Golden orfe (Leuciscus idus)

**Invertebrate Toxicity:**
- EC50 > 500 mg/L, 24 hrs. Water flea (Daphnia magna)

Ecological Note: No data available for this component.

**Ecological Data for Imidacloprid**

**Fish Toxicity:**
- LC50 = 211 mg/L, 96 hrs. Rainbow (Donaldson) Trout (Oncorhynchus mykiss)

**Invertebrate Toxicity:**
- EC50 = 85 mg/L, 48 hrs. Water flea (Daphnia magna)

**Plant Toxicity:**
- Aquatic Plants growth rate = > 10 mg/L, 72 hrs.

Section 13: Disposal Considerations

**Waste Disposal Method:**
Follow container label instructions for disposal of wastes generated during use in compliance with the FDA product label. Do not reuse container.

Section 14: Transportation Information

**Technical shipping name:**
**Domestic Surface Transportation (DOT)**
Hazard Class or Division: Non-Regulated

**Marine Transportation (IMO / IMDG)**
Hazard Class Division: Non-Regulated
Number:

**Air Transportation (ICAO / IATA)**
Hazard Class Division: Non-Regulated
Number:

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**Section 15: Regulatory Information**

**United States Federal Regulations**

**OSHA Hazcom Standard Rating:** Hazardous

**TSCA Inventory List:** This product is excluded from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

**FIFRA Status:** This product is registered with the EPA under FIFRA.

**CERCLA Hazardous Substance:**

<table>
<thead>
<tr>
<th>Component(s)</th>
<th>Reportable Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

**SARA Title III**

**SARA Section 302 Extremely Hazardous Substances:**

<table>
<thead>
<tr>
<th>Component(s)/CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
</tr>
<tr>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

**SARA Section 311/312 Hazard Categories:** Immediate Health Hazard

**SARA Section 313 Toxic Chemicals:**

<table>
<thead>
<tr>
<th>Component(s)/CAS Number</th>
<th>Reporting Threshold</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
<td>Max.</td>
</tr>
<tr>
<td>None</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RCRA Status:** If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.
### State Right-to-Know Information

<table>
<thead>
<tr>
<th>Component(s)</th>
<th>CAS Number</th>
<th>State Code</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl alcohol</td>
<td>100-51-6</td>
<td>PA-H, NJ-N, MA-H</td>
<td>60% 100%</td>
</tr>
<tr>
<td>Carbonate derivative</td>
<td></td>
<td>PA-N, NJ-N</td>
<td>10% 30%</td>
</tr>
<tr>
<td>Imidacloprid</td>
<td>138261-41-3</td>
<td>PA-N, NJ-N</td>
<td>7% 13%</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>PA-N, NJ-N</td>
<td>3% 7%</td>
</tr>
</tbody>
</table>

### State Code Translation Table

- **PA-N** = Pennsylvania Non-hazardous
- **PA-H** = Pennsylvania Hazardous Substance List
- **NJ-N** = New Jersey Other - includes predominant ingredients
- **MA-H** = Massachusetts Hazardous Substance List

### Section 16: Other Information

#### NFPA 704M Rating

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Health</td>
<td></td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

0 = Insignificant  1 = Slight  2 = Moderate  3 = High  4 = Extreme

BAYER HEALTHCARE LLC’s method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by BAYER HEALTHCARE LLC as a customer service.

Contact: John Sheehan  
Phone: (913) 268-2570  
MSDS Number: 000000002732  
Version Date: 05/18/2010  
MSDS Version: 1.7

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Indicates Relevant Change Made.