

MATERIAL SAFETY DATA SHEET

BAYER HEALTHCARE LLC

Animal Health Division 12707 Shawnee Mission Parkway (West 63rd) Shawnee, KS 66216-1846

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 1: Product and Company Identification

Product Name: Material Number: Advantage II 83000490

Chemical Name:

Formula:

Section 2: Composition/Information on Ingredients

HAZARDOUS INGREDIENTS

Ingredient Name/			Concentration	
CAS Number	Exposure Limits	Min.	Max.	
Aromatic alcohol CAS# is a trade secret	OSHA (PEL): Not Established ACGIH (TLV): Not Established	60%	100%	
Carbonate derivative CAS# is a trade secret	OSHA (PEL): Not Established ACGIH (TLV): Not Established	10%	30%	
Imidacloprid 138261-41-3	OSHA (PEL): Not Established ACGIH (TLV): Not Established	7%	13%	
Pyriproxyfen 95737-68-1	OSHA (PEL): ACGIH (TLV):	0.1%	1%	

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 %):

Lower Explosion Limit

(LEL %):

Not Established

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.

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

Section 6: Accidental Release Measures

Shelf Life: Not Established

Handling/Storage Precautions: Store in a dry place in orginal or waterproof containers. Avoid

contact with eyes. Avoid excessive contact with skin or clothing.

Material Name: Advantage II Article Number: 83000490

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:

PH:

Not Established

Not Applicable

Not Established

Bulk Density:9.1 lb/galVapor Pressure:Not EstablishedVapor 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:

Section 15: Regulatory Information

United States Federal Regulations

OSHA Hazcom Standard

Hazardous

Rating:

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:

Component(s) Reportable Quantity

None

SARA Title III

SARA Section 302 Extremely Hazardous Substances:

Component(s)/ConcentrationCAS NumberMin.Max.

None

SARA Section 311/312 Hazard Immediate Health Hazard

Categories:

SARA Section 313 Toxic Chemicals:

Component(s)/ReportingConcentrationCAS NumberThresholdMin.Max.

None

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.

Material Name: Advantage II Article Number: 83000490

State Right-to-Know Information

Component(s)/	_	Concentration	
CAS Number	State Code	Min.	Max.
Benzyl alcohol	PA-H, NJ-N, MA-H	60%	100%
100-51-6	DA M MIM	100/	200/
Carbonate derivative	PA-N, NJ-N	10%	30%
Imidacloprid	PA-N, NJ-N	7%	13%
138261-41-3	,		
Water	PA-N, NJ-N	3%	7%
7732-18-5			

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

Health	2
Flammability	1
Reactivity	0
Other	

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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