



# 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 : (877) 258-2280  
BAYER INFORMATION PHONE: (800) 633-3796

## Section 1: Product and Company Identification

**Product Name:** ADVANTAGE Flea Adulticide  
**Material Number:** 837885  
**Chemical Family:** Chloronicotinyl  
**Chemical Name:** 1-((6-chloro-3-pyridinyl)methyl)-N -nitro-2-imidazolidinimine  
**Synonyms:** Imidacloprid  
**Formula:** Mixture

## Section 2: Composition/Information on Ingredients

### HAZARDOUS INGREDIENTS

<u>Ingredient Name/ CAS Number</u>	<u>Exposure Limits</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Aromatic alcohol Specific chemical identity is withheld as a trade secret	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established	60%	85%
Carbonate derivative Specific chemical identity is withheld as a trade secret	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established	10%	30%
Imidacloprid 138261-41-3	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established		10%

### 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) 414-0244. Please also notify Bayer at (877) 258-2280.

#### Section 5: Fire Fighting Measures

**Flash Point:** 210 °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

**Storage Temperature:**  
**Maximum:** 100 °F

**Shelf Life:** Not Established

**Special Sensitivity:** Not Established

**Handling/Storage Precautions:** Store in a dry place in original or waterproof containers. Store separate from food products. Store in an area designated specifically for pesticides. Avoid contact with eyes. Avoid contact with skin or clothing.

### 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

**Specific Gravity:** 1.093 - 1.103 @ 20 °C

**Bulk Density:** Not Applicable

**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 Flea Adulticide

**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/m<sup>3</sup>, 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 Flea Adulticide

**Fish Toxicity:** > 105 ppm, Bluegill (*Lepomis macrochirus*)

### Section 13: Disposal Considerations

**Waste Disposal Method:** Follow container label instructions for disposal of wastes generated during use in compliance with the FIFRA product label. In other situations, bury in an EPA approved landfill or burn in an incinerator approved for pesticide destruction. Do not reuse container.

### Section 14: Transportation Information

**Technical shipping name:** Pesticide

**Freight Class**

**Bulk:** Insecticides, N.O.I. (NMFC 102120)

**Package:** Insecticides, N.O.I. (NMFC 102120)

**Domestic Surface Transportation (DOT)**

**Hazard Class or Division:** Non-Regulated

Material Name: ADVANTAGE Flea Adulticide

Article Number: 837885

**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 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:**

<u>Component(s)</u>	<u>Reportable Quantity</u>
None	

**SARA Title III**

**SARA Section 302 Extremely Hazardous Substances:**

<u>Component(s)/ CAS Number</u>	<u>Concentration</u>	
	<u>Min.</u>	<u>Max.</u>
None		

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

**SARA Section 313 Toxic Chemicals:**

<u>Component(s)/ CAS Number</u>	<u>Reporting Threshold</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Exempt			

**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**

<u>Component(s)/ CAS Number</u>	<u>State Code</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>

State Code Translation Table

**Section 16: Other Information**

**NFPA 704M Rating**

<b>Health</b>	2
<b>Flammability</b>	1
<b>Reactivity</b>	0
<b>Other</b>	

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: R22460  
Version Date: 06/11/2004  
MSDS Version: 1.12

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of BAYER HEALTHCARE LLC. The data on this sheet relates only to the specific material designated herein. BAYER HEALTHCARE LLC assumes no legal responsibility for use or reliance upon these data.

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**NON-TRANSPORTATION**  
BAYER EMERGENCY PHONE : (877) 258-2280  
BAYER INFORMATION PHONE: (800) 633-3796

## Section 1: Product and Company Identification

**Product Name:** ADVANTAGE Flea Adulticide  
**Material Number:** 1791668  
**Chemical Family:** Chloronicotinyl  
**Chemical Name:** 1-((6-chloro-3-pyridinyl)methyl)-N -nitro-2-imidazolidinimine  
**Synonyms:** Imidacloprid  
**Formula:** Mixture

## Section 2: Composition/Information on Ingredients

### HAZARDOUS INGREDIENTS

<u>Ingredient Name/ CAS Number</u>	<u>Exposure Limits</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Aromatic alcohol Specific chemical identity is withheld as a trade secret	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established	60%	85%
Carbonate derivative Specific chemical identity is withheld as a trade secret	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established	10%	30%
Imidacloprid 138261-41-3	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established		10%

### 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) 414-0244. Please also notify Bayer at (877) 258-2280.

#### Section 5: Fire Fighting Measures

**Flash Point:** 210 °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

**Storage Temperature:**

**Maximum:** 100 °F

**Shelf Life:** Not Established

**Special Sensitivity:** Not Established

**Handling/Storage Precautions:** Store in a dry place in original or waterproof containers. Store separate from food products. Store in an area designated specifically for pesticides. Avoid contact with eyes. Avoid contact with skin or clothing.

#### 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

<b>Physical Form:</b>	Liquid
<b>Appearance:</b>	Pipettes
<b>Color:</b>	Light tan to light yellow
<b>Odor:</b>	Mild
<b>Odor Threshold:</b>	Not Established
<b>pH:</b>	Not Applicable
<b>Boiling Point:</b>	Not Established
<b>Melting/Freezing Point:</b>	Not Established
<b>Solubility in Water:</b>	Soluble
<b>Specific Gravity:</b>	1.093 - 1.103 @ 20 °C
<b>Bulk Density:</b>	Not Applicable
<b>Vapor Pressure:</b>	Not Established
<b>Vapor Density:</b>	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 Flea Adulticide**

**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/m<sup>3</sup>, 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 Flea Adulticide**

**Fish Toxicity:** > 105 ppm, Bluegill (*Lepomis macrochirus*)

### Section 13: Disposal Considerations

**Waste Disposal Method:** Follow container label instructions for disposal of wastes generated during use in compliance with the FIFRA product label. In other situations, bury in an EPA approved landfill or burn in an incinerator approved for pesticide destruction. Do not reuse container.

### Section 14: Transportation Information

**Technical shipping name:** Pesticide

**Freight Class**

**Bulk:** Insecticides, N.O.I. (NMFC 102120)

**Package:** Insecticides, N.O.I. (NMFC 102120)

**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 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:**

<u>Component(s)</u>	<u>Reportable Quantity</u>
None	

**SARA Title III**

**SARA Section 302 Extremely Hazardous Substances:**

<u>Component(s)/ CAS Number</u>	<u>Concentration</u>	
	<u>Min.</u>	<u>Max.</u>
None		

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

**SARA Section 313 Toxic Chemicals:**

<u>Component(s)/ CAS Number</u>	<u>Reporting Threshold</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Exempt			

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<u>Component(s)/ CAS Number</u>	<u>State Code</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>

State Code Translation Table

**Section 16: Other Information**

**NFPA 704M Rating**

<b>Health</b>	2
<b>Flammability</b>	1
<b>Reactivity</b>	0
<b>Other</b>	

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

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Phone: (913) 268-2570  
MSDS Number: R22460  
Version Date: 06/11/2004  
MSDS Version: 1.12

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### Section 1: Product and Company Identification

**Product Name:** ADVANTAGE Flea Adulticide  
**Material Number:** 1791692  
**Chemical Family:** Chloronicotinyl  
**Chemical Name:** 1-((6-chloro-3-pyridinyl)methyl)-N -nitro-2-imidazolidinimine  
**Synonyms:** Imidacloprid  
**Formula:** Mixture

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#### HAZARDOUS INGREDIENTS

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

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##### 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.

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**Flash Point:** 210 °F

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**Lower Explosion Limit (LEL %):** Not Established

**Extinguishing Media:**

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

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**Storage Temperature:**  
**Maximum:** 100 °F

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**Special Sensitivity:** Not Established

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##### Personal Protection Equipment

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

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#### Section 9: Physical and Chemical Properties

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<b>Odor Threshold:</b>	Not Established
<b>pH:</b>	Not Applicable
<b>Boiling Point:</b>	Not Established
<b>Melting/Freezing Point:</b>	Not Established
<b>Solubility in Water:</b>	Soluble
<b>Specific Gravity:</b>	1.093 - 1.103 @ 20 °C
<b>Bulk Density:</b>	Not Applicable
<b>Vapor Pressure:</b>	Not Established
<b>Vapor Density:</b>	Not Established

#### Section 10: Stability and Reactivity

<b>Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur
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**Ecological Data for ADVANTAGE Flea Adulticide**

**Fish Toxicity:** > 105 ppm, Bluegill (*Lepomis macrochirus*)

**Section 13: Disposal Considerations**

**Waste Disposal Method:** Follow container label instructions for disposal of wastes generated during use in compliance with the FIFRA product label. In other situations, bury in an EPA approved landfill or burn in an incinerator approved for pesticide destruction. Do not reuse container.

**Section 14: Transportation Information**

**Technical shipping name:** Pesticide

**Freight Class**

**Bulk:** Insecticides, N.O.I. (NMFC 102120)

**Package:** Insecticides, N.O.I. (NMFC 102120)

**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 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:**

<u>Component(s)</u>	<u>Reportable Quantity</u>
None	

**SARA Title III**

**SARA Section 302 Extremely Hazardous Substances:**

<u>Component(s)/ CAS Number</u>	<u>Concentration</u>	
	<u>Min.</u>	<u>Max.</u>
None		

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

**SARA Section 313 Toxic Chemicals:**

<u>Component(s)/ CAS Number</u>	<u>Reporting Threshold</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Exempt			

**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**

<u>Component(s)/ CAS Number</u>	<u>State Code</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>

State Code Translation Table

**Section 16: Other Information**

**NFPA 704M Rating**

<b>Health</b>	2
<b>Flammability</b>	1
<b>Reactivity</b>	0
<b>Other</b>	

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: R22460  
Version Date: 06/11/2004  
MSDS Version: 1.12

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|| Indicates Relevant Change Made.



# 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 : (877) 258-2280  
BAYER INFORMATION PHONE: (800) 633-3796

### Section 1: Product and Company Identification

**Product Name:** ADVANTAGE Flea Adulticide  
**Material Number:** 1791706  
**Chemical Family:** Chloronicotinyl  
**Chemical Name:** 1-((6-chloro-3-pyridinyl)methyl)-N -nitro-2-imidazolidinimine  
**Synonyms:** Imidacloprid  
**Formula:** Mixture

### Section 2: Composition/Information on Ingredients

#### HAZARDOUS INGREDIENTS

<u>Ingredient Name/ CAS Number</u>	<u>Exposure Limits</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Aromatic alcohol Specific chemical identity is withheld as a trade secret	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established	60%	85%
Carbonate derivative Specific chemical identity is withheld as a trade secret	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established	10%	30%
Imidacloprid 138261-41-3	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established		10%

### 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) 414-0244. Please also notify Bayer at (877) 258-2280.

#### **Section 5: Fire Fighting Measures**

**Flash Point:** 210 °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**

**Storage Temperature:**  
**Maximum:** 100 °F

**Shelf Life:** Not Established

**Special Sensitivity:** Not Established

**Handling/Storage Precautions:** Store in a dry place in original or waterproof containers. Store separate from food products. Store in an area designated specifically for pesticides. Avoid contact with eyes. Avoid contact with skin or clothing.

#### 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

<b>Physical Form:</b>	Liquid
<b>Appearance:</b>	Pipettes
<b>Color:</b>	Light tan to light yellow
<b>Odor:</b>	Mild
<b>Odor Threshold:</b>	Not Established
<b>pH:</b>	Not Applicable
<b>Boiling Point:</b>	Not Established
<b>Melting/Freezing Point:</b>	Not Established
<b>Solubility in Water:</b>	Soluble
<b>Specific Gravity:</b>	1.093 - 1.103 @ 20 °C
<b>Bulk Density:</b>	Not Applicable
<b>Vapor Pressure:</b>	Not Established
<b>Vapor Density:</b>	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 Flea Adulticide

**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/m<sup>3</sup>, 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 Flea Adulticide

**Fish Toxicity:** > 105 ppm, Bluegill (*Lepomis macrochirus*)

### Section 13: Disposal Considerations

**Waste Disposal Method:** Follow container label instructions for disposal of wastes generated during use in compliance with the FIFRA product label. In other situations, bury in an EPA approved landfill or burn in an incinerator approved for pesticide destruction. Do not reuse container.

### Section 14: Transportation Information

**Technical shipping name:** Pesticide

**Freight Class**

**Bulk:** Insecticides, N.O.I. (NMFC 102120)

**Package:** Insecticides, N.O.I. (NMFC 102120)

**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 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:**

<u>Component(s)</u>	<u>Reportable Quantity</u>
None	

**SARA Title III**

**SARA Section 302 Extremely Hazardous Substances:**

<u>Component(s)/ CAS Number</u>	<u>Concentration</u>	
	<u>Min.</u>	<u>Max.</u>
None		

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

**SARA Section 313 Toxic Chemicals:**

<u>Component(s)/ CAS Number</u>	<u>Reporting Threshold</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Exempt			

**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**

<u>Component(s)/ CAS Number</u>	<u>State Code</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>

State Code Translation Table

**Section 16: Other Information**

**NFPA 704M Rating**

<b>Health</b>	2
<b>Flammability</b>	1
<b>Reactivity</b>	0
<b>Other</b>	

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: R22460  
Version Date: 06/11/2004  
MSDS Version: 1.12

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# MATERIAL SAFETY DATA SHEET

## BAYER HEALTHCARE LLC

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

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INTERNATIONAL ..... : (703) 527-3887

**NON-TRANSPORTATION**  
BAYER EMERGENCY PHONE : (877) 258-2280  
BAYER INFORMATION PHONE: (800) 633-3796

### Section 1: Product and Company Identification

**Product Name:** ADVANTAGE Flea Adulticide  
**Material Number:** 1791722  
**Chemical Family:** Chloronicotinyl  
**Chemical Name:** 1-((6-chloro-3-pyridinyl)methyl)-N -nitro-2-imidazolidinimine  
**Synonyms:** Imidacloprid  
**Formula:** Mixture

### Section 2: Composition/Information on Ingredients

#### HAZARDOUS INGREDIENTS

<u>Ingredient Name/ CAS Number</u>	<u>Exposure Limits</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Aromatic alcohol Specific chemical identity is withheld as a trade secret	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established	60%	85%
Carbonate derivative Specific chemical identity is withheld as a trade secret	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established	10%	30%
Imidacloprid 138261-41-3	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established		10%

### 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) 414-0244. Please also notify Bayer at (877) 258-2280.

#### Section 5: Fire Fighting Measures

**Flash Point:** 210 °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

**Storage Temperature:**

**Maximum:** 100 °F

**Shelf Life:** Not Established

**Special Sensitivity:** Not Established

**Handling/Storage Precautions:** Store in a dry place in original or waterproof containers. Store separate from food products. Store in an area designated specifically for pesticides. Avoid contact with eyes. Avoid contact with skin or clothing.

#### 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

<b>Physical Form:</b>	Liquid
<b>Appearance:</b>	Pipettes
<b>Color:</b>	Light tan to light yellow
<b>Odor:</b>	Mild
<b>Odor Threshold:</b>	Not Established
<b>pH:</b>	Not Applicable
<b>Boiling Point:</b>	Not Established
<b>Melting/Freezing Point:</b>	Not Established
<b>Solubility in Water:</b>	Soluble
<b>Specific Gravity:</b>	1.093 - 1.103 @ 20 °C
<b>Bulk Density:</b>	Not Applicable
<b>Vapor Pressure:</b>	Not Established
<b>Vapor Density:</b>	Not Established

#### Section 10: Stability and Reactivity

<b>Stability:</b>	Stable
<b>Hazardous Polymerization:</b>	Will not occur
<b>Substances to Avoid:</b>	Oxidizing agents
<b>Conditions to Avoid:</b>	Avoid extreme heat.

**Decomposition Products:** Carbon monoxide, Carbon Dioxide, Oxides of Nitrogen, Hydrogen cyanide, Hydrogen chloride

### Section 11: Toxicological Information

**Toxicity Data for** ADVANTAGE Flea Adulticide

**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/m<sup>3</sup>, 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 Flea Adulticide

**Fish Toxicity:** > 105 ppm, Bluegill (*Lepomis macrochirus*)

### Section 13: Disposal Considerations

**Waste Disposal Method:** Follow container label instructions for disposal of wastes generated during use in compliance with the FIFRA product label. In other situations, bury in an EPA approved landfill or burn in an incinerator approved for pesticide destruction. Do not reuse container.

### Section 14: Transportation Information

**Technical shipping name:** Pesticide

**Freight Class**

**Bulk:** Insecticides, N.O.I. (NMFC 102120)

**Package:** Insecticides, N.O.I. (NMFC 102120)

**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 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:**

<u>Component(s)</u>	<u>Reportable Quantity</u>
None	

**SARA Title III**

**SARA Section 302 Extremely Hazardous Substances:**

<u>Component(s)/ CAS Number</u>	<u>Concentration</u>	
	<u>Min.</u>	<u>Max.</u>
None		

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

**SARA Section 313 Toxic Chemicals:**

<u>Component(s)/ CAS Number</u>	<u>Reporting Threshold</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Exempt			

**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**

<u>Component(s)/ CAS Number</u>	<u>State Code</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>

State Code Translation Table

**Section 16: Other Information**

**NFPA 704M Rating**

<b>Health</b>	2
<b>Flammability</b>	1
<b>Reactivity</b>	0
<b>Other</b>	

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: R22460  
Version Date: 06/11/2004  
MSDS Version: 1.12

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# MATERIAL SAFETY DATA SHEET

## BAYER HEALTHCARE LLC

Animal Health Division  
12707 Shawnee Mission Parkway  
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Shawnee, KS 66216-1846

**TRANSPORTATION EMERGENCY**  
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INTERNATIONAL ..... : (703) 527-3887

**NON-TRANSPORTATION**  
BAYER EMERGENCY PHONE : (877) 258-2280  
BAYER INFORMATION PHONE: (800) 633-3796

### Section 1: Product and Company Identification

**Product Name:** ADVANTAGE Flea Adulticide  
**Material Number:** 1791730  
**Chemical Family:** Chloronicotinyl  
**Chemical Name:** 1-((6-chloro-3-pyridinyl)methyl)-N -nitro-2-imidazolidinimine  
**Synonyms:** Imidacloprid  
**Formula:** Mixture

### Section 2: Composition/Information on Ingredients

#### HAZARDOUS INGREDIENTS

<u>Ingredient Name/ CAS Number</u>	<u>Exposure Limits</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Aromatic alcohol Specific chemical identity is withheld as a trade secret	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established	60%	85%
Carbonate derivative Specific chemical identity is withheld as a trade secret	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established	10%	30%
Imidacloprid 138261-41-3	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established		10%

Material Name: ADVANTAGE Flea Adulticide Article Number: 1791730

### 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) 414-0244. Please also notify Bayer at (877) 258-2280.

#### Section 5: Fire Fighting Measures

**Flash Point:** 210 °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

**Storage Temperature:**  
**Maximum:** 100 °F

**Shelf Life:** Not Established

**Special Sensitivity:** Not Established

**Handling/Storage Precautions:** Store in a dry place in original or waterproof containers. Store separate from food products. Store in an area designated specifically for pesticides. Avoid contact with eyes. Avoid contact with skin or clothing.

#### 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

<b>Physical Form:</b>	Liquid
<b>Appearance:</b>	Pipettes
<b>Color:</b>	Light tan to light yellow
<b>Odor:</b>	Mild
<b>Odor Threshold:</b>	Not Established
<b>pH:</b>	Not Applicable
<b>Boiling Point:</b>	Not Established
<b>Melting/Freezing Point:</b>	Not Established
<b>Solubility in Water:</b>	Soluble
<b>Specific Gravity:</b>	1.093 - 1.103 @ 20 °C
<b>Bulk Density:</b>	Not Applicable
<b>Vapor Pressure:</b>	Not Established
<b>Vapor Density:</b>	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 Flea Adulticide

**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/m<sup>3</sup>, 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 Flea Adulticide

**Fish Toxicity:** > 105 ppm, Bluegill (*Lepomis macrochirus*)

### Section 13: Disposal Considerations

**Waste Disposal Method:** Follow container label instructions for disposal of wastes generated during use in compliance with the FIFRA product label. In other situations, bury in an EPA approved landfill or burn in an incinerator approved for pesticide destruction. Do not reuse container.

### Section 14: Transportation Information

**Technical shipping name:** Pesticide

**Freight Class**

**Bulk:** Insecticides, N.O.I. (NMFC 102120)

**Package:** Insecticides, N.O.I. (NMFC 102120)

**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 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:**

<u>Component(s)</u>	<u>Reportable Quantity</u>
None	

**SARA Title III**

**SARA Section 302 Extremely Hazardous Substances:**

<u>Component(s)/ CAS Number</u>	<u>Concentration</u>	
	<u>Min.</u>	<u>Max.</u>
None		

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

**SARA Section 313 Toxic Chemicals:**

<u>Component(s)/ CAS Number</u>	<u>Reporting Threshold</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Exempt			

**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**

<u>Component(s)/ CAS Number</u>	<u>State Code</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>

State Code Translation Table

**Section 16: Other Information**

**NFPA 704M Rating**

<b>Health</b>	2
<b>Flammability</b>	1
<b>Reactivity</b>	0
<b>Other</b>	

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: R22460  
Version Date: 06/11/2004  
MSDS Version: 1.12

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of BAYER HEALTHCARE LLC. The data on this sheet relates only to the specific material designated herein. BAYER HEALTHCARE LLC assumes no legal responsibility for use or reliance upon these data.

|| Indicates Relevant Change Made.



# 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 : (877) 258-2280  
BAYER INFORMATION PHONE: (800) 633-3796

### Section 1: Product and Company Identification

**Product Name:** ADVANTAGE Flea Adulticide  
**Material Number:** 1791749  
**Chemical Family:** Chloronicotinyl  
**Chemical Name:** 1-((6-chloro-3-pyridinyl)methyl)-N -nitro-2-imidazolidinimine  
**Synonyms:** Imidacloprid  
**Formula:** Mixture

### Section 2: Composition/Information on Ingredients

#### HAZARDOUS INGREDIENTS

<u>Ingredient Name/ CAS Number</u>	<u>Exposure Limits</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Aromatic alcohol Specific chemical identity is withheld as a trade secret	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established	60%	85%
Carbonate derivative Specific chemical identity is withheld as a trade secret	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established	10%	30%
Imidacloprid 138261-41-3	<b>OSHA (PEL):</b> Not Established <b>ACGIH (TLV):</b> Not Established		10%

Material Name: ADVANTAGE Flea Adulticide Article Number: 1791749

### 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) 414-0244. Please also notify Bayer at (877) 258-2280.

**Section 5: Fire Fighting Measures**

**Flash Point:** 210 °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**

**Storage Temperature:**

**Maximum:** 100 °F

**Shelf Life:** Not Established

**Special Sensitivity:** Not Established

**Handling/Storage Precautions:** Store in a dry place in original or waterproof containers. Store separate from food products. Store in an area designated specifically for pesticides. Avoid contact with eyes. Avoid contact with skin or clothing.

### 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  
**Specific Gravity:** 1.093 - 1.103 @ 20 °C  
**Bulk Density:** Not Applicable  
**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 Flea Adulticide

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

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**Package:** Insecticides, N.O.I. (NMFC 102120)

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**Hazard Class or Division:** Non-Regulated

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**Hazard Class Division** Non-Regulated  
**Number:**

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**Number:**

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**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:**

<u>Component(s)</u>	<u>Reportable Quantity</u>
None	

**SARA Title III**

**SARA Section 302 Extremely Hazardous Substances:**

<u>Component(s)/ CAS Number</u>	<u>Concentration</u>	
	<u>Min.</u>	<u>Max.</u>
None		

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

**SARA Section 313 Toxic Chemicals:**

<u>Component(s)/ CAS Number</u>	<u>Reporting Threshold</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>
Exempt			

**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)

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<u>Component(s)/ CAS Number</u>	<u>State Code</u>	<u>Concentration</u>	
		<u>Min.</u>	<u>Max.</u>

State Code Translation Table

**Section 16: Other Information**

**NFPA 704M Rating**

<b>Health</b>	2
<b>Flammability</b>	1
<b>Reactivity</b>	0
<b>Other</b>	

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

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Contact: John Sheehan  
Phone: (913) 268-2570  
MSDS Number: R22460  
Version Date: 06/11/2004  
MSDS Version: 1.12

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