



## SAFETY DATA SHEET

122000001555

**Advantage multi for Cats or Dogs**

Version 1.2

Revision Date 09/01/2010

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**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information**

**Product Name:** Advantage multi for Cats or Dogs  
**MSDS Number:** 122000001555

**Company**

BAYER HEALTHCARE LLC  
Animal Health Division  
12707 Shawnee Mission Parkway  
(West 63rd)  
Shawnee, KS 66216-1846  
UNITED STATES  
(800) 633-3796

**In case of emergency:** (800) 422-9874  
Chemtec: (800) 424-9300  
BAYER INFORMATION PHONE:(800) 633-3796  
INTERNATIONAL:(703) 527-3887

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**2. HAZARDS IDENTIFICATION****Emergency Overview**

**WARNING!** **Colour:** yellow, brownish **Form:** liquid clear **Odour:** weak, characteristic.  
May cause eye irritation. May be harmful if swallowed.

**Hazard Communication (29CFR 1910.1200)**

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

**Acute Ingestion Hazards** Slightly toxic by ingestion.

**Acute Effects of Exposure** allergic reaction,

No Carcinogenic substances as defined by IARC, NTP and/or OSHA

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Advantage multi for Cats or Dogs**

Version 1.2

Revision Date 09/01/2010

---

**Hazardous Ingredients:**

<b>Weight percent</b>	<b>Components</b>	<b>CAS-No.</b>
7 - 13%	Imidacloprid	138261-41-3
10 - 30%	Carbonate derivative	
60 - 100%	Alcohol derivative	

**Other Ingredients**

<b>Weight percent</b>	<b>Components</b>	<b>CAS-No.</b>
0.25 - 2.5%	Moxidectin	113507-06-5

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**4. FIRST AID MEASURES**

**General advice:** Take off all contaminated clothing immediately.

**If inhaled:** Remove to fresh air. Call a physician immediately.

**In case of skin contact:** After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

**In case of eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**If swallowed:** If swallowed, seek medical advice immediately and show this container or label.

**Contact Number:** Use the Bayer Emergency Number in Section 1

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**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Unsuitable extinguishing media:** High volume water jet

**Specific hazards during fire fighting:** Fire may cause evolution of: Hydrogen cyanide (hydrocyanic acid) Hydrogen chloride gas nitrogen oxides (NOx) Carbon oxides

**Special protective equipment for fire-fighters:** In the event of fire, wear self-contained breathing apparatus.

**Further information:** Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**6. ACCIDENTAL RELEASE MEASURES**

**Advantage multi for Cats or Dogs**

Version 1.2

Revision Date 09/01/2010

---

**Personal precautions:** Use personal protective equipment. Use adequate ventilation.

**Methods for cleaning up:** Suppress (knock down) gases/vapours/mists with a water spray jet. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Place in closed containers. Label for proper disposal.

**Additional advice:** Keep away from/remove sources of ignition.

**Further Accidental Release Notes**      Keep away from/remove sources of ignition.

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## 7. HANDLING AND STORAGE

**Handling:**

Avoid formation of aerosol. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

Take measures to prevent the build up of electrostatic charge. Keep away from open flames, hot surfaces and sources of ignition.

**Storage:**

Storage temperature: 39 - 77 °F (3.89 - 25 °C)

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory protection:**

Recommended Filter type: Organic vapor with prefilter

**Hand protection:**

Chemically resistant gloves.

**Eye protection:**

Protective goggles

**Other protective measures:**

Wear suitable protective equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	clear	
Colour:	yellow, brownish	
Odour:	weak characteristic	
Boiling point/boiling range:	no data available	
Density:	1.098 g/cm <sup>3</sup> at 68 °F (20 °C)	DIN 51757
Vapour pressure:	no data available	

**Advantage multi for Cats or Dogs**

Version 1.2

Revision Date 09/01/2010

---

Viscosity, dynamic:	no data available
Miscibility with water:	immiscible
pH:	no data available
Partition coefficient (n-octanol/water):	no data available
Flash point:	> 212 °F (100 °C)
Ignition temperature:	not determined
Explosion limits:	
Explosion limits:	upper: 13 %(V) / lower: 1.3 %(V) upper: 14.3 %(V) / lower: 1.8 %(V)

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**10. STABILITY AND REACTIVITY**

**Conditions to avoid:** Do not allow product to come in contact with:  
Heat

**Materials to avoid:** Oxidizing agents

**Hazardous reactions:** Exothermic polycondensation, accompanied by setting-free of water, may occur in the presence of acids and dissolved iron, zinc or aluminium.

**Thermal decomposition:**

no data available

**Hazardous decomposition products:**

Hydrogen cyanide (hydrocyanic acid), Hydrogen chloride gas, nitrogen oxides (NO<sub>x</sub>), Carbon oxides

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**11. TOXICOLOGICAL INFORMATION**

**Other information on toxicity:**

Alcohol derivative

Dermal absorption possible

If inhaled: irritations, Shortness of breath, Cough

If swallowed: Vomiting, Nausea, Irritation of mucous membranes in the mouth, throat, gullet and gastro-intestinal tract following swallowing

Systemic toxicity: headaches, Nausea, CNS disorders, Convulsions, Unconsciousness, cessation of breathing

**Advantage multi for Cats or Dogs**

Version 1.2

Revision Date 09/01/2010

---

**Acute oral toxicity:**

Imidacloprid

LD50 rat: 424 mg/kg

Moxidectin

LD50 rat: 106 mg/kg

Toxic if swallowed.

Carbonate derivative

LD50 rat: 34,920 mg/kg

Alcohol derivative

LD50 rat: 1,230 mg/kg

**Acute inhalation toxicity:**

Imidacloprid

LC50 rat: &gt; 5.323 mg/l, 4 h

Method: OECD Test Guideline 403

Dust

LC50rat: > 69 mg/l, 4 h  
aerosol

Moxidectin

Harmful by inhalation.

**Acute dermal toxicity:**

Imidacloprid

LD50 rat: &gt; 5,000 mg/kg

Moxidectin

LD50 rabbit: &gt; 2,000 mg/kg

Carbonate derivative

LD50 rabbit: 20,000 mg/kg

**Skin irritation:**

Imidacloprid

rabbit

Result: No skin irritation

Moxidectin

Result: Skin irritation

Carbonate derivative

Result: Skin irritation

Alcohol derivative

rabbit

Result: non-irritant

**Advantage multi for Cats or Dogs**

Version 1.2

Revision Date 09/01/2010

---

**Eye irritation:**

Imidacloprid

rabbit

Result: No eye irritation

Moxidectin

Result: Causes eye irritation.

Carbonate derivative

Result: Causes eye irritation.

Alcohol derivative

rabbit

Result: Mild eye irritation

**Sensitisation:**

Imidacloprid

Skin sensitization guinea pig

Result: Did not cause sensitization on laboratory animals.

Method: Magnusson and Kligmann maximization test

**Genotoxicity in vitro:**

Imidacloprid

Ames test

Result: negative

Moxidectin

Result: No indication of mutagenic effects.

Alcohol derivative

Ames test

Result: negative

**Pharmaceutic effects:**

Imidacloprid

Insecticide

Moxidectin

Anthelmintics Antiparasitic agent

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**12. ECOLOGICAL INFORMATION****General advice:**

Do not allow to enter surface waters or groundwater.

**Toxicity to fish:**

Imidacloprid

Acute Fish toxicity: LC50 280 mg/l

Test species: Cyprinus carpio (Carp) Duration of test: 96 h

**Advantage multi for Cats or Dogs**

Version 1.2

Revision Date 09/01/2010

---

Acute Fish toxicity: LC50 211 mg/l

Test species: Oncorhynchus mykiss (rainbow trout) Duration of test: 96 h

Acute Fish toxicity: LC50 237 mg/l

Test species: Leuciscus idus (Golden orfe) Duration of test: 96 h

Moxidectin

Acute Fish toxicity: LC50 16 µg/l

Test species: Oncorhynchus mykiss (rainbow trout)

LC50 62 µg/l

Test species: Lepomis macrochirus (Bluegill)

Alcohol derivative

Acute Fish toxicity: LC50 10 mg/l

Test species: Lepomis macrochirus (Bluegill) Duration of test: 96 h

**Toxicity to daphnia and other aquatic invertebrates:**

Imidacloprid

EC50 85 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 48 h

EC50 0.055 mg/l

Test species: Hyalella azteca Duration of test: 96 h

Not relevant

LC50 0.0552 mg/l

Test species: Chironomus Riparius (non-biting midge) Duration of test: 24 h

Not relevant

Moxidectin

EC50 302 ng/l

Test species: Daphnia magna (Water flea)

Alcohol derivative

EC50 400 mg/l

Test species: Daphnia magna (Water flea) Duration of test: 24 h

**Toxicity to algae:**

Imidacloprid

EC50 &gt; 100 mg/l

tested on: Pseudokirchneriella subcapitata (green algae) Duration of test: 72 h

EC50 &gt; 10 mg/l

tested on: Desmodesmus subspicatus (Green algae) Duration of test: 72 h

Moxidectin

EC50 &gt; 869 µg/l

**Advantage multi for Cats or Dogs**

Version 1.2

Revision Date 09/01/2010

---

**Toxicity to bacteria:**

Imidacloprid

EC50 &gt; 10,000 mg/l

tested on: activated sludge micro-organism

Method: OECD TG 209

Alcohol derivative

EC50 71.4 mg/l

tested on: Photobacterium phosphoreum

Duration of test: 0.5 h

**Bioaccumulation:**

Imidacloprid

Low potential for bioaccumulation

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**13. DISPOSAL CONSIDERATIONS**

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)

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

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**14. TRANSPORT INFORMATION****Land transport (DOT)**

Non-Regulated

**Inland waterway transport**

Non-Regulated

**Railway transport**

Non-Regulated

**Sea transport (IMDG)**

Non-Regulated

**Air transport (ICAO / IATA cargo aircraft only)**

Non-Regulated

**Air transport (ICAO / IATA passenger and cargo aircraft)**Non-Regulated

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**15. REGULATORY INFORMATION**



Advantage multi for Cats or Dogs

Version 1.2

Revision Date 09/01/2010

US. Toxic Substances Control Act This product is excluded from TSCA regulation by Section 3 (2)(B)(vi) when used for FDA application.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components None

SARA Section 311/312 Hazard Categories Immediate Health Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components None

US. EPA CERCLA Hazardous Substances (40 CFR 302)Components None

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists Weight percent Components CAS-No. 60 - 100% Alcohol derivative

California Prop. 65

To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

OSHA Hazcom Standard Rating Hazardous

16. OTHER INFORMATION

NFPA 704M Rating

Table with 2 columns: Category (Health, Flammability, Reactivity, Other) and Rating (2, 1, 0, empty).

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

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and

**Advantage multi for Cats or Dogs**

Version 1.2

Revision Date 09/01/2010

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may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.