

SAFETY DATA SHEET Advantage II

Version 1.1

Revision Date 01/06/2011

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Information

Product Name: MSDS Number: Advantage II 122000001561

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

Chemtrec: (800) 424-9300

BAYER INFORMATION PHONE: (800) 633-3796

INTERNATIONAL: (703) 527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

WARNING! Colour: yellow, brownish Form: liquid Odour: weak, characteristic.

May cause respiratory tract irritation. Inhalation may cause nausea or dizziness. May cause eye irritation.

Hazard Communication (29CFR 1910.1200)

Eye Contact Inhalation Skin Contact

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.

Acute Skin Hazards May cause slight irritation,

Acute Eye Hazards May cause irritation with symptoms of reddening, tearing

and stinging.

Acute Ingestion Hazards Moderately toxic by ingestion.

Chronic Effects of Exposure Prolonged contact with this product may cause defatting

of the skin due to the solvent component in the product.

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Medical Conditions Aggrevated by Exposure

Eye disorders, Skin disorders, Respiratory tract disorders

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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

5. FIRE-FIGHTING MEASURES

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

Unauitable 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

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apparatus.

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

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

Handling:

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

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Alcohol derivative

US. Workplace Environmental Exposure Level (WEEL) Guides Time Weighted Average (TWA): 10 ppm, 44 mg/m3

Respiratory protection:

Recommended Filter type: Organic vapor with prefilter

Hand protection:

Chemically resistant gloves.

Eve protection:

Safety glasses

Other protective measures:

Wear suitable protective equipment.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Colour: yellow, brownish
Odour: weak characteristic

 Melting point:
 < -60 °C</td>
 ISO 3016

 Density:
 1.096 g/cm3 at 68 °F (20 °C)
 DIN 51757

 Viscosity, dynamic:
 6.606 mPa.s at 68 °F (20 °C)
 DIN 53019/1

 Viscosity, kinematic:
 6.027 mm2/s at 68 °F (20 °C)
 DIN 51562

 Flow time:
 < 30 s at 3 mm nozzle</td>
 ISO 2431

Misciblity with water: immiscible pH: neutral

Partition coefficient

(n-octanol/water): no data available

 Flash point:
 > 239 °F (115 °C)
 ISO 2719

 Ignition temperature:
 779 °F (415 °C)
 DIN 51794

10. STABILITY AND REACTIVITY

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

Heat

Materials to avoid: Oxidizing agents

Hazardous reactions: None known.

Thermal decomposition:

no data available

Hazardous decomposition products:

Hydrogen cyanide (hydrocyanic acid), Hydrogen chloride gas, nitrogen oxides (NOx), Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:

LD50 rat , female: 1,732 mg/kg

LD50 rat, female: 1,943 mg/kg

Acute inhalation toxicity: LC50 rat: > 2.415 mg/l

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Acute dermal toxicity: LD50 rat: > 2,000 mg/kg

Skin irritation:

rabbit

Result: Slightly irritating

Eye imitation:

rabbit

Result: Moderately irritating

Sensitisation:

Skin sensitization guinea pig

Result: Did not cause sensitization on laboratory animals.

12. ECOLOGICAL INFORMATION

General advice:

Do not allow to enter surface waters or groundwater.

Toxicity to fish:

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

LC50 0.0552 mg/l

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

Pyriproxyfen EC50 0.4 mg/l

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

Alcohol derivative EC50 400 mg/l

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

Toxicity to algae:

Imidacloprid EC50 > 100 mg/l

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

EC50 > 10 mg/l

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

Pyriproxyfen IC50 0.064 mg/l

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

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Toxicity to bacteria:

Imidacloprid

EC50 > 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

Biodegradability:

Pyriproxyfen

Not readily blodegradable. Method: OECD TG 301 D

Bioaccumulation:

Imidacloprid

Low potential for bioaccumulation

Pyriproxyfen

Bioconcentration factor (BCF)

ca. 1,500

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.

14. TRANSPORT INFORMATION

Land transport (DOT)

Non-Regulated

Inland waterway transport

Non-Regulated

Railway transport

Non-Regulated

Sea transport (IMDG)

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Air transport (ICAO / IATA cargo aircraft only)

Non-Regulated

Air transport (ICAO / IATA passenger and cargo aircraft)

Non-Regulated

15. REGULATORY INFORMATION

FIFRA Status

US. Toxic Substances Control Act

This product is registered with the EPA under FIFRA. This product is excluded from TSCA Regulation under FIFRA Section 3 (2)(B)(ii) when used as a pesticide.

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

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

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists Weight percent Components

60 - 100%

Alcohol derivative

CAS-No.

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

NEDA 704M Petine

Health	2	
Flammability	1	
Reactivity	0	
Other		

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

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