



## SAFETY DATA SHEET

122000010232

**Advantus**

Version 1.0

Revision Date 05/28/2013

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

**Product Name:** Advantus  
**MSDS Number:** 122000010232

**Use** : veterinary medicine, unfinished

**Company**

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

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

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

<b>Form:</b> solid
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**GHS Classification:**

Not a dangerous substance / mixture according to GHS.

**GHS Label element:**

Not a dangerous substance / mixture according to GHS.

**Hazard Communication (29CFR 1910.1200)**

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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<b>Weight percent</b>	<b>Components</b>	<b>CAS-No.</b>
7 - 13%	Tradeseecret	
10 - 30%	Polyhydric alcohol	
10 - 30%	(Pregelatinized) Starch	
1 - 5%	Tradeseecret	
1 - 5%	Tradeseecret	

<b>Other Ingredients</b>		<b>CAS-No.</b>
<b>Weight percent</b>	<b>Components</b>	
0.312%	Imidacloprid	138261-41-3

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**4. FIRST AID MEASURES**

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

**If inhaled:** Remove to fresh air. If symptoms persist, call a physician.

**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.

**Most important symptoms and effects, both acute and delayed** : No information available.  
No information available.

**Notes to physician** : No information available.

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

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**5. FIREFIGHTING MEASURES**

**Suitable extinguishing media:** Any

**Specific hazards during firefighting:** Fire may cause evolution of: Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)

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

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

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ground water system.

**6. ACCIDENTAL RELEASE MEASURES**

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

**Methods for cleaning up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**Additional advice:** Avoid dust formation.

**Further Accidental Release Notes**      Avoid dust formation.

**7. HANDLING AND STORAGE****Handling:**

Industrial uses: Avoid dust formation. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

No special protective measures against fire required.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Hand protection:**

Chemically resistant gloves.

**Eye protection:**

Safety glasses

**Other protective measures:**

No special safety precautions are required during handling of pharmaceuticals in their intended finished form (tablets or liquid formulations) by chemists, the hospital's medical staff or patients.

Wear suitable protective equipment.

For the intake of ready for use pharmaceuticals or the external use on the skin please read the label and the package leaflet.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form:

solid

Colour:

No applicable information is available

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Odour:	No applicable information is available
Odour Threshold:	No applicable information is available
Melting point:	No applicable information is available
Boiling point/boiling range:	No applicable information is available
Density:	No applicable information is available
Bulk density:	No applicable information is available
Vapour pressure:	No applicable information is available
Viscosity, dynamic:	No applicable information is available
Viscosity, kinematic:	No applicable information is available
Flow time:	No applicable information is available
Surface tension:	No applicable information is available
Miscibility with water:	No applicable information is available
Water solubility:	No applicable information is available
pH:	No applicable information is available
Relative density:	No applicable information is available
Partition coefficient:	No applicable information is available
Solubility(ies):	No applicable information is available
Flash point:	No applicable information is available
Flammability (solid, gas):	No applicable information is available
Ignition temperature:	No applicable information is available
Explosion limits:	No applicable information is available

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**10. STABILITY AND REACTIVITY**

**Conditions to avoid:** no data available

**Materials to avoid:** Oxidizing agents

**Hazardous reactions:** None known.

**Thermal decomposition:**

no data available

**Hazardous decomposition products:**

Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

**Oxidizing properties:**

No statements available.

**Impact Sensitivity:**

no data available

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**11. TOXICOLOGICAL INFORMATION****Other information on toxicity:**

Polyhydric alcohol

Inhalation of vapors causes irritation of the respiratory tract.

Ingestion of large quantities: Vomiting, Abdominal pain, headaches, Dizziness, Diarrhoea, Cyanosis

**Acute oral toxicity:**

Imidacloprid

LD50 rat: 424 mg/kg

Polyhydric alcohol

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

(Pregelatinized) Starch

Tradesecret

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

Tradesecret

LD50 rat: 4,640 mg/kg

**Acute inhalation toxicity:**

Imidacloprid

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

Method: OECD Test Guideline 403

LC50rat: &gt; 69 mg/l, 4 h

Polyhydric alcohol

LC50 rat, male: &gt; 2.75 mg/l, 4 h

Method: Calculation method

**Acute dermal toxicity:**

Imidacloprid

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

Polyhydric alcohol

LD50 rabbit: &gt; 18,700 mg/kg

Tradesecret

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

**Acute toxicity (other routes of administration):**

(Pregelatinized) Starch

LD50 intraperitoneal mouse: 6,600 mg/kg

Tradesecret

LD50 intravenous mouse: 23 mg/kg

**Skin irritation:**

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Imidacloprid  
rabbit  
Result: No skin irritation

Tradesecret  
Result: May irritate skin.

Polyhydric alcohol  
rabbit  
Result: No skin irritation

(Pregelatinized) Starch  
rabbit  
Result: Mild skin irritation  
Method: Draize Test

Tradesecret  
rabbit  
Result: No skin irritation  
Method: Draize Test

Tradesecret  
rabbit  
Result: Moderate skin irritation

**Eye irritation:**

Imidacloprid  
rabbit  
Result: No eye irritation

Tradesecret  
Result: May irritate eyes.

Polyhydric alcohol  
rabbit  
Result: No eye irritation

Tradesecret  
rabbit  
Result: No eye irritation  
Method: Draize Test

Tradesecret  
Result: No eye irritation  
Test substance: Data on a comparable substance

**Sensitisation:**

Imidacloprid  
Skin sensitization guinea pig  
Result: Did not cause sensitization on laboratory animals.  
Method: Magnusson and Kligmann maximization test

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Polyhydric alcohol

Patch test on human volunteers did not demonstrate sensitization properties.

**Genotoxicity in vitro:**

Imidacloprid

Ames test

Result: negative

Polyhydric alcohol

Ames test

Result: negative

Tradesecret

Ames test Escherichia coli

Result: negative

Tradesecret

Ames test

Result: negative

Test substance: Data on a comparable substance

**Pharmaceutic effects:**

Imidacloprid

Insecticide

**Carcinogenicity:**

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

**STOT - single exposure:**

no data available

**STOT - repeated exposure:**

no data available

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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

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

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Polyhydric alcohol

Acute Fish toxicity: LC50 &gt; 5,000 mg/l

Test species: *Carassius auratus* (goldfish) Duration of test: 24 h

Acute Fish toxicity: LC100 51,000 - 57,000 mg/l

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

Acute Fish toxicity: LC50 &gt; 250 mg/l

Test species: *Leuciscus idus* (Golden orfe) Duration of test: 48 h

Tradesecret

semi-static test: LC50 &gt; 100 mg/l

Test species: *Leuciscus idus* (Golden orfe)

Method: ISO 7346/2

LC50 &gt; 100 mg/l

Test species: *Danio rerio* (zebra fish)

Method: ISO 7346/2

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

Imidacloprid

EC50 0.055 mg/l

Test species: *Hyalella azteca* Duration of test: 96 h

Polyhydric alcohol

EC50 &gt; 10,000 mg/l

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

EC0 &gt; 500 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

Polyhydric alcohol

IC5 &gt; 10,000 mg/l

tested on: *Scenedesmus quadricauda* (Green algae) Duration of test: 7 d**Toxicity to bacteria:**

Imidacloprid

EC50 &gt; 10,000 mg/l

tested on: activated sludge micro-organism

Method: OECD TG 209

Polyhydric alcohol

EC5 &gt; 10,000 mg/l

tested on: *Pseudomonas putida*

Duration of test: 16 h



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EC5 3,200 mg/l  
tested on: Protozoa  
Duration of test: 72 h

Tradeseecret  
EC0 > 100 mg/l  
tested on: Pseudomonas putida  
Test substance: Data on a comparable substance

**Biodegradability:**

Tradeseecret  
rapidly biodegradable

Polyhydric alcohol  
63 %, 14 d rapidly biodegradable  
Method: OECD TG 301 C

Tradeseecret  
> 60 %, rapidly biodegradable  
Test substance: Data on a comparable substance

**Bioaccumulation:**

Imidacloprid

Low potential for bioaccumulation

Polyhydric alcohol

Bioaccumulation is unlikely.

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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 (CFR)**  
**Non-Regulated**

**Sea transport (IMDG)**  
**Non-Regulated**

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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**

**Other regulations:** No statements available.

**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**

None

**Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists**

<b>Weight percent</b>	<b>Components</b>	<b>CAS-No.</b>
10 - 30%	Polyhydric alcohol	
10 - 30%	(Pregelatinized) Starch	

**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**

**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.