

## SAFETY DATA SHEET

122000010787

**Advantage Treatment Spray for Dogs**

Version 2.0

Revision Date 10/22/2013

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****Product information****Product Name:** Advantage Treatment Spray for Dogs

MSDS Number: 122000010787

**Use** : veterinary medicine**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

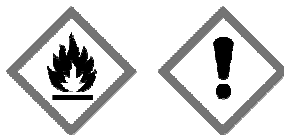
INTERNATIONAL:(703) 527-3887

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

**CAUTION! OSHA, Flammable liquid** Colour: clear, yellowish **Form:** liquid **Odour:** Alcohol.  
 Harmful if inhaled. Harmful if absorbed through skin. Moderate eye irritation Harmful if swallowed.

**GHS Classification:**

**Flammable liquids** : Category 2  
**Eye irritation** : Category 2  
**Specific target organ toxicity - single exposure** : Category 3 (Central nervous system)  
**Acute toxicity** : Category 5

**GHS Label element:****Hazard pictograms** :**Signal word** : Danger

**Advantage Treatment Spray for Dogs**

Version 2.0

Revision Date 10/22/2013

- Hazard statements** : H225 Highly flammable liquid and vapour.  
H303 May be harmful if swallowed.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.
- Precautionary statements** : **Prevention:**  
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 Keep container tightly closed.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
**Response:**  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
**Storage:**  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

**Hazard Communication (29CFR 1910.1200)**

Skin Contact Eye Contact

Hazardous under 29 CFR 1910.1200

- Acute Inhalation Hazards** Harmful by inhalation.
- Acute Skin Hazards** May cause slight irritation.
- Acute Eye Hazards** Moderate eye irritation
- Acute Ingestion Hazards** Expected to be harmful.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Weight percent	Components	CAS-No.
>=95%	Propan-2-ol	67-63-0
1 - 5%	Tradeseecret	

Other Ingredients		
Weight percent	Components	CAS-No.
0.18%	Pyrethrum Extract	8003-34-7

**Advantage Treatment Spray for Dogs**

Version 2.0

Revision Date 10/22/2013

---

**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. FIREFIGHTING 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 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.

**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:** No special precautions required.

**Further Accidental Release Notes**      No special precautions required.

---

**Advantage Treatment Spray for Dogs**

Version 2.0

Revision Date 10/22/2013

---

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

Industrial uses: Avoid formation of aerosol. 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****Propan-2-ol (67-63-0)**

- US. ACGIH Threshold Limit Values  
Time Weighted Average (TWA): 200 ppm
- US. ACGIH Threshold Limit Values  
Short Term Exposure Limit (STEL): 400 ppm
- US. NIOSH: Pocket Guide to Chemical Hazards  
Recommended exposure limit (REL): 400 ppm, 980 mg/m<sup>3</sup>
- US. NIOSH: Pocket Guide to Chemical Hazards  
Short Term Exposure Limit (STEL): 500 ppm, 1,225 mg/m<sup>3</sup>
- US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)  
PEL: 400 ppm, 980 mg/m<sup>3</sup>

**Pyrethrum Extract (8003-34-7)**

- US. ACGIH Threshold Limit Values  
Time Weighted Average (TWA): 5 mg/m<sup>3</sup>
- US. NIOSH: Pocket Guide to Chemical Hazards  
Recommended exposure limit (REL): 5 mg/m<sup>3</sup>
- US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)  
PEL: 5 mg/m<sup>3</sup>

**Pyrethrum Extract (8003-34-7)**

- US. ACGIH Threshold Limit Values  
Time Weighted Average (TWA): 5 mg/m<sup>3</sup>
- US. NIOSH: Pocket Guide to Chemical Hazards  
Recommended exposure limit (REL): 5 mg/m<sup>3</sup>
- US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)  
PEL: 5 mg/m<sup>3</sup>

**Respiratory protection:**

Recommended Filter type: Organic vapor with prefilter

**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.

**Advantage Treatment Spray for Dogs**

Version 2.0

Revision Date 10/22/2013

---

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

Wear suitable protective equipment.

Please consult label for end-user requirements.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form:	liquid	
Colour:	clear, yellowish	
Odour:	Alcohol	
Odour Threshold:	No applicable information is available	
Melting point:	No applicable information is available	
Boiling point/boiling range:	No applicable information is available	
Density:	0.788 g/cm <sup>3</sup> at 68 °F (20 °C)	
Bulk density:	No applicable information is available	
Vapour pressure:	No applicable information is available	
Viscosity, dynamic:	7.5 mPa.s at 69.26 °F (20.7 °C)	
Viscosity, kinematic:	No applicable information is available	
Flow time:	No applicable information is available	
Surface tension:	No applicable information is available	
Miscibility with water:	in all proportions	
Water solubility:	No applicable information is available	
pH:	9.6 at 50 g/l	
Relative density:	No applicable information is available	
Partition coefficient:	No applicable information is available	
Solubility(ies):	No applicable information is available	
Flash point:	60.08 °F (15.6 °C)	closed cup
Flammability (solid, gas):	No applicable information is available	
Ignition temperature:	No applicable information is available	
Explosion limits:	No applicable information is available	

---

**10. STABILITY AND REACTIVITY**

**Conditions to avoid:** no data available

**Materials to avoid:** Oxidizing agents

**Hazardous reactions:** None known.

**Thermal decomposition:**

no data available

**Advantage Treatment Spray for Dogs**

Version 2.0

Revision Date 10/22/2013

---

**Hazardous decomposition products:**Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)**Oxidizing properties:**

No statements available.

**Impact Sensitivity:**no data available

---

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

Propan-2-ol

Breathing of the fumes may lead to narcotic symptoms.

After absorption headaches, Nausea, Unconsciousness, Dizziness

**Acute oral toxicity:**

LD50 rat : 3,980 mg/kg

May be harmful if swallowed.

**Acute inhalation toxicity:**

LC50 &gt; 9.66 mg/l, 4 h

The substance or mixture has no acute inhalation toxicity

**Acute dermal toxicity:**

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

**Skin irritation:**

rat

Result: Mild skin irritation

**Eye irritation:**

Result: Irritation to eyes, reversing within 7 days

**Sensitisation:**

guinea pig

Result: Does not cause skin sensitization.

**Genotoxicity in vitro:**

Propan-2-ol

Ames test

Result: negative

Micronucleus test

Result: No indication of clastogenic effects.

**Advantage Treatment Spray for Dogs**

Version 2.0

Revision Date 10/22/2013

---

**Genotoxicity in vivo:**

Propan-2-ol

Micronucleus test, mouse

Result: No indication of clastogenic effects.

Method: OECD TG 474

**Reproductive toxicity:**

Propan-2-ol

Result: Animal testing did not show any effects on fertility.

Toxicological Evaluations ( Institute for Toxicology of Bayer Pharma AG)

**Teratogenicity:**

Propan-2-ol

Result: Evidence of an embryotoxic effect in animal studies at doses which are harmful to the parent animals.

Toxicological Evaluations ( Institute for Toxicology of Bayer Pharma AG)

**Carcinogenicity:**

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

**STOT - single exposure:****Components:****67-63-0 :**

Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure:**no data available

---

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

Do not allow to enter surface waters or groundwater.

**Toxicity to fish:**

Propan-2-ol

Acute Fish toxicity: LC50 &gt; 100 mg/l

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

Acute Fish toxicity: LC50 1,400 mg/l

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

Tradesecret

Acute Fish toxicity: LC50 &gt; 1,000 mg/l

Test species: Salmo gairdneri Duration of test: 96 h

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

Propan-2-ol

EC50 &gt; 100 mg/l

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

**Advantage Treatment Spray for Dogs**

Version 2.0

Revision Date 10/22/2013

---

Tradeseecret

EC50 &gt; 1,000 mg/l

Duration of test: 48 h

**Toxicity to algae:**

Propan-2-ol

IC50 &gt; 1,000 mg/l

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

**Toxicity to bacteria:**

Propan-2-ol

EC0 1,050 mg/l

tested on: Pseudomonas putida

Duration of test: 24 h

**Biodegradability:**

Propan-2-ol

&gt; 70 %, 10 d

According to the results of tests of biodegradability this product is considered as being readily biodegradable.

---

**13. DISPOSAL CONSIDERATIONS**

If discarded in its purchased form, this product would be a hazardous waste. 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 (CFR)****Proper shipping name:** ISOPROPANOL SOLUTION**Hazard Class or Division:** 3**UN/NA Number:** UN1219**Packaging group:** II**Hazard Label(s):** Flammable Liquid**US Sea transport (IMDG)****Proper shipping name:** ISOPROPANOL SOLUTION**Hazard Class or Division:** 3**UN number:** UN1219**Packaging group:** II**Hazard Label(s):** FLAMMABLE LIQUIDS**US Air transport (ICAO / IATA cargo aircraft only)****Proper shipping name:** ISOPROPANOL SOLUTION**Hazard Class or Division:** 3**UN/ID Number:** UN1219**Packaging group:** II



**Advantage Treatment Spray for Dogs**

Version 2.0

Revision Date 10/22/2013

---

**Hazard Label(s):** FLAMMABLE LIQUIDS**US Air transport (ICAO / IATA passenger and cargo aircraft)****Proper shipping name:** ISOPROPANOL SOLUTION**Hazard Class or Division:** 3**UN/ID Number:** UN1219**Packaging group:** II**Hazard Label(s):** FLAMMABLE LIQUIDS**International IATA****UN Number** 1219**Description of the goods** ISOPROPANOL SOLUTION**Class** 3**Packaging group** II**Dangerous goods labels** 3**Environmentally hazardous** no**International IMDG****UN Number** 1219**Description of the goods** ISOPROPANOL SOLUTION**Class** 3**Packaging group** II**IMDG-Labels** 3**Marine Pollutant** no

---

**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

**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

---

**Advantage Treatment Spray for Dogs**

Version 2.0

Revision Date 10/22/2013

---

**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.