

4729

Bayer HealthCare

027185



**SAFETY DATA SHEET**  
**PERMECTRIN™ II**

122000008520

Version 1.1

Revision Date 02/14/2013

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

**Product information** PERMECTRIN II SPRAY 1 QT

**Product Name:** PERMECTRIN™ II  
**MSDS Number:** 122000008520

**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**

**WARNING! Combustible Liquid** Colour: Light yellow to yellow Form: liquid Odour: oily.  
Harmful if ingested, inhaled or absorbed through the skin.

**Hazard Communication (29CFR 1910.1200)**

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

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Weight percent	Components	CAS-No.
10%	Permethrin	52645-53-1
1 - 5%	Butan-1-ol	71-36-3

#### 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.

**Note to Physician:** Do not induce vomiting; contains petroleum distillates and/or aromatic solvents.

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

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#### 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 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 ground water system.

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#### 6. ACCIDENTAL RELEASE MEASURES

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

**Methods for cleaning up:** Cover spilt product with liquid-binding material (sand, silica gel, acid binder, universal binder, hybilat). Take up mechanically and fill into labelled, closable containers.

**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 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.

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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:**

Safety glasses

**Other protective measures:**

Wear suitable protective equipment.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Colour:	Light yellow to yellow
Odour:	oily
Density:	0.859 g/cm <sup>3</sup>
pH:	4.86 at 10 g/l
Flash point:	151 °F (66.11 °C)

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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, 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:**

Butan-1-ol

After absorption of large quantities

Dizziness Weakness, Liver disorders, drowsiness, headaches

After absorption of large quantities

Dizziness Weakness, Liver disorders, drowsiness, headaches

**Acute oral toxicity:**

Permethrin

LD50 rat: 430 mg/kg

Butan-1-ol

LD50 rat: 790 mg/kg

**Acute inhalation toxicity:**

Permethrin

LC50 rat: 2.3 mg/l, 4 h

Butan-1-ol

LC50 rat: 8000 ppm, 4 h

**Acute dermal toxicity:**

Permethrin

LD50 rabbit: > 2,000 mg/kg

LD50 rat: > 2,500 mg/kg

Butan-1-ol

LD50 rabbit: 3,400 mg/kg

**Skin irritation:**

Permethrin

rabbit

Result: No skin irritation

Butan-1-ol  
rabbit  
Result: Moderate skin irritation

**Eye irritation:**

Permethrin  
rabbit  
Result: Mild eye irritation

Butan-1-ol  
rabbit  
Result: Causes serious eye damage.

**Genotoxicity in vitro:**

Butan-1-ol  
Ames test  
Result: negative

Micronucleus test  
Result: negative

**Human experience:**

Butan-1-ol  
May cause skin irritation and/or dermatitis.

**Pharmaceutic effects:**

Permethrin  
Insecticide

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**12. ECOLOGICAL INFORMATION**

**General advice:**

Do not allow to enter surface waters or groundwater.

**Toxicity to fish:**

Permethrin  
LC50 0.0076 mg/l  
Test species: *Poecilia reticulata* Duration of test: 48 h

Butan-1-ol  
Acute Fish toxicity: LC50 1,730 mg/l  
Test species: *Pimephales promelas* (fathead minnow) Duration of test: 96 h

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

Permethrin  
EC50 37 µg/l  
Test species: *Daphnia magna* (Water flea) Duration of test: 48 h  
Method: OECD Test Guideline 202

EC50 0.00017 mg/l  
Test species: *Daphnia magna* (Water flea) Duration of test: 48 h

Butan-1-ol  
EC50 1,983 mg/l  
Test species: Daphnia magna (Water flea) Duration of test: 48 h

**Toxicity to algae:**

Permethrin  
EC50 0.5 mg/l  
Duration of test: 72 h

**Biodegradability:**

Permethrin  
0 %, 28 d Not readily biodegradable.

Butan-1-ol  
98 %, 28 d Readily biodegradable.  
Method: OECD TG 301 E

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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

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**

**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**

Permethrin

**US. EPA CERCLA Hazardous Substances (40 CFR 302) Components**

Butan-1-ol

Reportable quantity: 5000 lbs

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

**Weight percent    Components**

**CAS-No.**

7 - 13%

Permethrin

52645-53-1

**New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists**

**Weight percent    Components**

**CAS-No.**

7 - 13%

Permethrin

52645-53-1

**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

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**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.