

## **SAFETY DATA SHEETS**

**This SDS packet was issued with item:**

078392913

**The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).**

078399244

SAFETY DATA SHEET  
**PERMECTRIN™ II**

122000008520

Version 2.0

Revision Date 07/30/2015

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

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

**Use** : Pesticide

**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**

**Colour:** Light yellow to yellow **Form:** liquid **Odour:** oily.

**GHS Classification:**

**Acute toxicity (Oral)** : Category 4  
**Acute toxicity (Inhalation)** : Category 4  
**Eye irritation** : Category 2  
**Skin sensitization** : Category 1  
**Germ cell mutagenicity** : Category 1B  
**Carcinogenicity** : Category 1B

**GHS Label element:**

**Hazard pictograms** :



**Signal word** : Danger

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- Hazard statements** : H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H340 May cause genetic defects.  
H350 May cause cancer.
- Precautionary statements** : **Prevention:**  
P201 Obtain special instructions before use.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P281 Use personal protective equipment as required.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

### Other hazards which do not result in classification:

None known.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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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.

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**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 (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 ground water system.

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### 6. ACCIDENTAL RELEASE MEASURES

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

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

**Additional advice:** No special precautions required.

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

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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.

**No special protective measures against fire required.**

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory protection:**

Recommended Filter type: Organic vapor with prefilter

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None required for consumer use of this product.

### Hand protection:

Chemically resistant gloves.

None required for consumer use of this product.

### Eye protection:

Safety glasses

None required for consumer use of this product.

### Other protective measures:

Wear suitable protective equipment.

Please consult label for end-user requirements.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Colour:	Light yellow to yellow
Odour:	oily
Odour Threshold:	No applicable information is available
Melting point:	No applicable information is available
Boiling point/boiling range:	No applicable information is available
Density:	0.859 g/cm <sup>3</sup>
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:	4.86 at 10 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:	151 °F (66.11 °C)
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:** No data available

**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:**

Permethrin

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).

**Other information on toxicity:**

n-butanol

Liver and kidney injuries may occur.

After absorption of large quantities Dizziness, Liver disorders, drowsiness, headaches, Weakness

**Acute oral toxicity:**

Permethrin

LD50 Rat: 430 mg/kg

n-butanol

LD50 Rat: 790 mg/kg

**Acute inhalation toxicity:**

Permethrin

LC50 Rat: 2.3 mg/l, 4 h

n-butanol

LC50 Rat: 8000 ppm, 4 h

**Acute dermal toxicity:**

Permethrin

LD50 Rabbit: > 2,000 mg/kg

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LD50 Rat: > 2,500 mg/kg

n-butanol

LD50 Rabbit: 3,400 mg/kg

**Skin irritation:**

Permethrin

Rabbit

Result: No skin irritation

n-butanol

Rabbit

Result: Mild skin irritation

Method: OECD 404

**Eye irritation:**

Permethrin

Rabbit

Result: Mild eye irritation

n-butanol

Rabbit

Result: Causes serious eye damage.

Method: OECD 405

**Sensitisation:**

Permethrin

Result: May cause sensitisation by skin contact.

n-butanol

Skin sensitization guinea pig

Result: Did not cause sensitisation on laboratory animals.

Method: OECD 406

**Genotoxicity in vitro:**

n-butanol

Ames test

Result: negative

Micronucleus test

Result: negative

In vitro gene mutation study in mammalian cells (Hamster V79-cells)

Result: No evidence of a genotoxic effect.

Method: OECD 476

**Genotoxicity in vivo:**

n-butanol

Micronucleus test, Mouse

Result: No evidence of a genotoxic effect.

Method: OECD 474

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### Reproductive toxicity:

n-butanol

NOAEL: 2000 ppm

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

Method: OECD Test Guideline 416

### Pharmaceutic effects:

Permethrin

Insecticide

### Carcinogenicity:

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

### Experience with human exposure:

#### Components:

##### **71-36-3 :**

May cause skin irritation and/or dermatitis.

### STOT - single exposure:

#### Components:

##### **71-36-3 :**

Assessment: May cause drowsiness or dizziness.

### 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:

Permethrin

LC50 0.0076 mg/l

Test species: Poecilia reticulata Duration of test: 48 h

n-butanol

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 202

EC50 0.00017 mg/l

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



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n-butanol

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 rapidly biodegradable

n-butanol

98 %, 28 d rapidly biodegradable

Method: OECD 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

### US Sea transport (IMDG)

non-regulated

### US Air transport (ICAO / IATA cargo aircraft only)

non-regulated

### US Air transport (ICAO / IATA passenger and cargo aircraft)

non-regulated

### International IATA

UN Number

3082

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(PERMETHRIN)

Class

9

Packaging group

III

Dangerous goods labels

9

Environmentally hazardous

yes

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**International IMDG**

<b>UN Number</b>	3082
<b>Description of the goods</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN)
<b>Class</b>	9
<b>Packaging group</b>	III
<b>IMDG-Labels</b>	9
<b>EmS Number</b>	F-A
<b>Marine pollutant</b>	yes

**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**

n-butanol

Reportable quantity: 5000 lbs

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

<b>Weight percent</b>	<b>Components</b>	<b>CAS-No.</b>
7 - 13%	Permethrin	52645-53-1

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

<b>Weight percent</b>	<b>Components</b>	<b>CAS-No.</b>
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

## 16. OTHER INFORMATION

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.