

# Safety data sheet

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BASF Safety data sheet

Date / Revised: 30.11.2010

Product: **FENDONA 15 SC INSECTICIDE**

Version: 3.1

310 22 I

(30503443/SDS\_CPA\_AU/EN)

Date of print 30.11.2010

## 1. Substance/preparation and company identification

### FENDONA 15 SC INSECTICIDE

Use: Public health synthetic pyrethroid insecticide.

Company:

BASF Australia Limited (ABN 62 008 437 867)

Level 12, 28 Freshwater Place Southbank

Victoria 3006, AUSTRALIA

Telephone: +61 3 8855-6600

Telefax number: +61 3 8855-6511

Emergency information:

BASF Emergency Advice Number: 1800 803 440 (24h) [within Australia]

BASF Emergency Advice Number: + 61 3 8855 6666 [outside Australia]

## 2. Hazard identification

DANGEROUS GOOD, NON-HAZARDOUS SUBSTANCE

The product contains alpha-cypermethrin, which may cause paraesthesia.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Keep locked-up and out of reach of children.

Keep away from food, drink and animal feeding stuffs.

When using do not eat, drink or smoke.

Avoid contact with skin.

This material and its container must be disposed of in a safe way.

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### 3. Composition/information on ingredients

#### Chemical nature

Insecticide, suspension concentrate (SC)

#### Hazardous ingredients

alpha-Cypermethrin

Content (W/W): 1.5 %  
CAS Number: 67375-30-8  
EC-Number: 257-842-9  
Hazard symbol(s): T, N  
R-phrases: 20, 25, 37/38, 48/22, 50/53

The wording of the hazard symbols and R-phrases is specified in Section 16 if dangerous ingredients are mentioned.

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### 4. First-Aid Measures

#### General advice:

Avoid contact with the skin, eyes and clothing. Take off immediately all contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

#### On skin contact:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

#### On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

#### Note to physician:

Symptoms: numbness and tingling of hands and feet, convulsions

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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## 5. Fire-Fighting Measures

Suitable extinguishing media:  
water spray, foam, dry powder

Specific hazards:  
carbon monoxide, hydrogen chloride, hydrogen cyanide, nitrogen oxides, organochloric compounds  
The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:  
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:  
In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

Personal precautions:  
Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

Environmental precautions:  
Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:  
For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder).  
For large amounts: Dike spillage. Pump off product.  
Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

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## 7. Handling and Storage

### Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:  
No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

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### Storage

Segregate from foods and animal feeds. Segregate from strong bases. Segregate from oxidants. Further information on storage conditions: Keep away from heat. Protect from direct sunlight. Protect against moisture.

Protect from temperatures below: -10 °C

The product can crystallize below the limit temperature.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

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## 8. Exposure controls and personal protection

### Components with workplace control parameters

No exposure standard allocated.

### Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

Professional Pest Control Product:

Harmful if swallowed. May irritate the eyes and skin. Facial skin contact may cause temporary facial numbness. Avoid contact with eyes and skin. Avoid inhaling spray mist. When preparing spray, wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing. No eating, drinking, smoking or tobacco use at the place of work.

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## 9. Physical and Chemical Properties

Form: liquid, suspension  
Colour: white

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Odour:	odourless	
pH value:	6.9 (10 g/l, 20 °C)	
onset of boiling:	approx. 100 °C (1,013 hPa) Information applies to the solvent.	
Flammability:	does not ignite	
Explosion hazard:	not explosive	
Vapour pressure:	approx. 23.4 hPa (20 °C) Information applies to the solvent.	
Density:	1.01 - 1.02 g/cm <sup>3</sup> (20 °C)	(OECD Guideline 109)
Solubility in water:	dispersible	
Partitioning coefficient n-octanol/water (log Pow):	not applicable	
Viscosity, dynamic:	85 mPa.s (20 °C, 10 1/s)	(OECD 114)

## 10. Stability and Reactivity

Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Substances to avoid:	Strong bases, oxidizing agents.
Corrosion to metals:	Mild steel, tin
Hazardous reactions:	No hazardous reactions if stored and handled as prescribed/indicated.
Hazardous decomposition products:	No hazardous decomposition products if stored and handled as prescribed/indicated.

## 11. Toxicological Information

### Acute toxicity

LD50 rat (oral): &gt; 5,000 mg/kg (product)

LD50 rat (dermal): &gt; 2,000 mg/kg (product)

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Information on: alpha-Cypermethrin  
LC50 rat (by inhalation): 1.33 mg/l 4 h (OECD Guideline 403)  
Tested as dust aerosol.  
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### **Irritation**

Primary skin irritation rabbit: non-irritant (product)

Primary irritations of the mucous membrane rabbit: non-irritant (product)

### **Assessment other acute effects**

Assessment other acute effects:  
The available information is not sufficient for evaluation.

### **Sensitization**

modified Buehler test guinea pig: Skin sensitizing effects were not observed in animal studies.

### **Repeated dose toxicity**

Assessment of repeated dose toxicity:  
No data available.

### **Genetic toxicity**

Information on: alpha-cypermethrin  
Assessment of mutagenicity:  
The substance was not mutagenic in bacteria.  
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### **Carcinogenicity**

Information on: alpha-cypermethrin  
Assessment of carcinogenicity:  
In the majority of the short term assays the substance caused no carcinogenic effects.  
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### **Reproductive toxicity**

Assessment of reproduction toxicity:  
No data available.

### **Developmental toxicity**

Assessment of teratogenicity:  
No data available.

### **Other relevant toxicity information**

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The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition. Misuse can be harmful to health.

The product contains alpha-cypermethrin which may cause paraesthesia.

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## 12. Ecological Information

### Ecotoxicity

Information on: alpha-cypermethrin

Toxicity to fish:

LC50 (96 h) 2,8 µg/l, *Oncorhynchus mykiss* (OECD 203; ISO 7346; 84/449/EEC, C.1)

LC50 (96 h) 0.93 µg/l, *Pimephales promelas* (EPA 72-1)

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Information on: alpha-cypermethrin

Aquatic invertebrates:

EC50 (48 h) 0,3 µg/l, *Daphnia magna* (OECD Guideline 202, part 1)

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Information on: alpha-cypermethrin

Aquatic plants:

EC50 (96 h) > 100 µg/l, *Scenedesmus subspicatus* (OECD Guideline 201)

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### Persistence and degradability

Information on: alpha-cypermethrin

Assessment biodegradation and elimination (H<sub>2</sub>O):

Not readily biodegradable (by OECD criteria).

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Information on: alpha-cypermethrin

Elimination information:

DOC reduction (28 d) (OECD 301D; EEC 92/69, C.4-E) Not readily biodegradable (by OECD criteria).

CO<sub>2</sub> formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C) Not readily biodegradable (by OECD criteria).

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### Additional information

Other ecotoxicological advice:

The ecological data given are those of the active ingredient. Do not discharge product into the environment without control.

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## 13. Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.

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Contaminated packaging:  
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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## 14. Transport Information

### Domestic transport:

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains ALPHA-CYPERMETHRIN 1,5%)

### Further information

Hazchem Code:3Z  
IERG Number:47

### Sea transport

IMDG

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains ALPHA-CYPERMETHRIN 1,5%)

### Air transport

IATA/ICAO

Hazard class: 9  
Packing group: III  
ID number: UN 3082  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(contains ALPHA-CYPERMETHRIN 1,5%)

### Further information

Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subjected to the Australian Dangerous Goods Code when transported by road or rail in packagings not exceeding 500 kg or 500 L.

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## 15. Regulatory Information

Standard for the Uniform Scheduling of Drugs and Poisons (Australia):

Poisons Schedule: Drugs & Poisons, Schedule 5

R-phrase(s)

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S1/2 Keep locked-up and out of reach of children.  
 S13 Keep away from food, drink and animal feeding stuffs.  
 S20/21 When using do not eat, drink or smoke.  
 S24 Avoid contact with skin.  
 S35 This material and its container must be disposed of in a safe way.

**Hazard determining component(s) for labelling: ALPHA-CYPERMETHRIN**

### Other regulations

**Registration status:**

AICS, AU released / exempt

## 16. Other Information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in Section 3:

T	Toxic.
N	Dangerous for the environment.
20	Harmful by inhalation.
25	Toxic if swallowed.
37/38	Irritating to respiratory system and skin.
48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.