



The Chemical Company

Safety data sheet

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BASF Australia Limited Safety data sheet
Date / Revised: 11.04.2007
Product: FENDONA 15SC

Version: 2.0

310 22 I
(30131395/SDS_CPA_AU/EN)

Date of print 12.04.2007

1. Substance/preparation and company identification

FENDONA 15SC

Use: crop protection product, insecticide

Company:

BASF Australia Limited (ABN 62 008 437 867)
500 Princes Highway Noble Park
Victoria 3174, AUSTRALIA
Telephone: +61 3 9212-1500
Telefax number: +61 3 9212-1511

Emergency information:

1800 803 440 (24h) [within Australia]
+61 3 9212-1666 [outside Australia]

2. Hazard identification

DANGEROUS GOOD, NON-HAZARDOUS SUBSTANCE

The product contains: alpha-cypermethrine
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

crop protection product, insecticide, suspension concentrate (SC)

Hazardous ingredients

alpha-cypermethrine

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

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

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, water fog, foam, dry extinguishing media

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.

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, kieselguhr).
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.

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.

Storage

Segregate from foods and animal feeds. Segregate from strong bases. Segregate from oxidants.

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Further information on storage conditions: Keep away from heat. Protect from direct sunlight. Protect against moisture.

Storage stability:
Storage duration: 24 Months

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.

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 DIN-EN 465).

General safety and hygiene measures:
The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and chemical properties

Form: liquid, suspension
Colour: white

Flash point: Non-flammable. (DIN EN 22719; ISO 2719)

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Flammability:	does not ignite
Explosion hazard:	not explosive
Vapour pressure:	dropped
Density:	1.01 - 1.02 g/cm ³ (20 °C)
Solubility in water:	dispersible

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): > 2,000 mg/kg

LD50 rat (dermal): > 2,000 mg/kg

Information on: alpha-cypermethrine

LC50 rat (by inhalation): > 1.59 mg/l 4 h

The test result applies only to the substance transferred into respirable aerosol (particles < 20 µm).

Irritation

Primary skin irritation rabbit: non-irritant

Primary irritations of the mucous membrane rabbit: non-irritant

Sensitization

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

Genetic toxicity

| Information on: alpha-cypermethrine

Assessment of mutagenicity:

| No mutagenic effect was found in various tests with bacteria and mammalian cell culture.

Carcinogenicity

| Information on: alpha-cypermethrine

Assessment of carcinogenicity:

| In the majority of the short term assays the substance caused no carcinogenic effects.

Reproductive toxicity

| Information on: alpha-cypermethrine

Assessment of reproduction toxicity:

| The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

| Information on: alpha-cypermethrine

Assessment of teratogenicity:

| No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Other relevant toxicity information

The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition. The statements are based on the properties of the the individual components. Misuse can be harmful to health. May cause paraesthesia.

| The product contains: alpha-cypermethrine
May cause paraesthesia.

12. Ecological information

Ecotoxicity

Information on: alpha-cypermethrine

Toxicity to fish:

LC50 (96 h) 0.93 ug/l, Pimephales promelas

Information on: alpha-cypermethrine

Aquatic invertebrates:

LC50 (48 h) 0.0001 - 0.0003 mg/l, Daphnia magna

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Information on: alpha-cypermethrine
 Aquatic plants:
 EC50 (96 h) > 0.1 mg/l, Pseudokirchneriella subcapitata

Persistence and degradability

Information on: alpha-cypermethrine
 Elimination information:
 Not readily biodegradable (by OECD criteria).

Additional information

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

13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

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

14. Transport information

Domestic transport:

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

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Air transport

IATA/ICAO

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

15. Regulatory information**National legislation/Regulations****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**16. Other information**

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

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.

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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.