

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 27.08.2012 Version: 4.0

Product: **FENDONA**

(ID no. 30355055/SDS_CPA_EU/EN)

Date of print 28.08.2012

Identification of the substance/mixture and of the company/undertaking Product identifier

FENDONA

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: crop protection product, insecticide

Details of the supplier of the safety data sheet

Company:
BASF SE
67056 Ludwigshafen
GERMANY
Operating Division Crop Protection

Telephone: +49 621 60-27777

E-mail address: Produktinformation-Pflanzenschutz@basf.com

Emergency telephone number

International emergency number: Telephone: +49 180 2273-112

2. Hazards Identification

Label elements

Globally Harmonized System, EU (GHS)

Pictogram:



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Signal Word: Warning

Hazard Statement:

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

EUH401 To avoid risks to human health and the environment, comply with the

instructions for use.

Precautionary Statements (Response): P391 Collect spillage.

Labeling of special preparations (GHS):

May cause paraesthesia. Alpha-Cypermethrin

According to Directive 67/548/EEC or 1999/45/EC

EEC Directives

Hazard symbol(s)

N Dangerous for the environment.



R-phrase(s)

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

S-phrase(s)

S2 Keep out of the reach of children.

S13 Keep away from food, drink and animal feeding stuffs.

S20/21 When using do not eat, drink or smoke.

S29/35 Do not empty into drains, this material and its container must be disposed

of in a safe way.

S57 Use appropriate container to avoid environmental contamination.

The product contains: Alpha-Cypermethrin May cause paraesthesia.

Classification of the substance or mixture

According to Regulation (EC) No 1272/2008 [CLP]

Aquatic Acute 1
Aquatic Chronic 1

According to Directive 67/548/EEC or 1999/45/EC

Possible Hazards:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May cause paraesthesia.

For the classifications not written out in full in this section the full text can be found in section 16.

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Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/Information on Ingredients

Mixtures

Chemical nature

crop protection product, insecticide, Wettable powder (WP)

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

Alpha-Cypermethrin

Content (W/W): 5 %

CAS Number: 67375-30-8

NDEX-Number: 607-422-00-X

Acute Tox. 4 (Inhalation - dust)

Acute Tox. 3 (oral)

STOT SE 3 (irr. to respiratory syst.)

STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1 M-factor acute: 10000 M-factor chronic: 1000

H332, H301, H400, H410, H335, H373

Docusate sodium

Content (W/W): < 3 % CAS Number: 577-11-7

EC-Number: 209-406-4

Skin Corr./Irrit. 2 Eve Dam./Irrit. 1 H318, H315

Kaolin

Content (W/W): < 90 %

CAS Number: 1332-58-7

EC-Number: 310-194-1

Eye Dam./Irrit. 2

H319

Hazardous ingredients

according to Directive 1999/45/EC

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Alpha-Cypermethrin

Content (W/W): 5 % CAS Number: 67375-30-8 INDEX-Number: 607-422-00-X

Hazard symbol(s): T, N

R-phrase(s): 20, 25, 37/38, 48/22, 50/53

Docusate sodium

Content (W/W): < 3 % CAS Number: 577-11-7 EC-Number: 209-406-4 Hazard symbol(s): Xi R-phrase(s): 38, 41

Kaolin

Content (W/W): < 90 % CAS Number: 1332-58-7 EC-Number: 310-194-1

For the classifications not written out in full in this section, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, the full text is listed in section 16.

4. First-Aid Measures

Description of first aid measures

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed

Symptoms: No significant reaction of the human body to the product known.

Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment (decontamination, vital functions).

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media: dry powder, foam, water spray

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Unsuitable extinguishing media for safety reasons: carbon dioxide

Special hazards arising from the substance or mixture

carbon monoxide, hydrogen chloride, Carbon dioxide, nitrogen oxides, organochloric compounds. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

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. In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

Environmental precautions

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

Methods and material for containment and cleaning up

For small amounts: Sweep/shovel up. For large amounts: Sweep/shovel up.

Avoid raising dust. 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.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and Storage

Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

Protection against fire and explosion:

Avoid dust formation. Dust can form an explosive mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

Conditions for safe storage, including any incompatibilities:Segregate from foods and animal feeds. Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

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Storage stability:

Storage duration: 36 Months

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters

1332-58-7: Kaolin

67375-30-8: .alpha.-cypermethrin (ISO); racemate comprising (R)-.alpha.-cyano-3-phenoxybenzyl (1S,3S)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate;

(15,35)-3-(2,2-dichiorovinyi)-2,2-dimetriyicyclopropanecarbox

(S)-.alpha.-cyano-3-phenoxybenzyl

(1R,3R)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

577-11-7: Docusate sodium

Exposure controls

Personal protective equipment

Respiratory protection:

Respiratory protection not required.

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).

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. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form: powder, free flowing

Colour: white

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odourless Odour:

Odour threshold:

not determined

pH value: approx. 4 - 10

Melting point:

The product has not been tested.

Boiling range:

The product has not been tested.

Flash point:

not applicable

Evaporation rate:

not applicable

Flammability: not determined Lower explosion limit:

not determined

Upper explosion limit:

not determined

Vapour pressure:

The product has not been tested.

Density:

not determined

Relative vapour density (air):

not determined dispersible

Solubility in water: Partitioning coefficient n-octanol/water (log Kow):

not applicable

not determined Self ignition:

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Viscosity, dynamic:

not applicable

Based on the chemical structure there Explosion hazard:

is no indicating of explosive

properties.

Fire promoting properties: Based on its structural properties

the product is not classified as

oxidizing.

Other information

Bulk density: approx. 343 kg/m3

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

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Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

Substances to avoid:

strong bases, strong acids, strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data: LD50 rat (oral): > 3,300 mg/kg

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

Information on: Alpha-Cypermethrin Experimental/calculated data:

LC50 rat (by inhalation): 2.29 mg/l 4 h (OECD Guideline 403)

Tested as dust aerosol.

Irritation

Assessment of irritating effects:

Not irritating to the eyes. Not irritating to the skin.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: non-irritant (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Germ cell mutagenicity

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Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Alpha-Cypermethrin

Assessment of repeated dose toxicity:

Repeated oral exposure may affect certain organs. Damages the peripheral nerve system.

Other relevant toxicity information

Misuse can be harmful to health. May cause paraesthesia.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: alpha-Cypermethrin

Toxicity to fish:

LC50 (96 h) 0.0028 mg/l, Oncorhynchus mykiss (OECD 203; ISO 7346; 84/449/EEC, C.1)

Information on: alpha-Cypermethrin

Aquatic invertebrates:

EC50 (48 h) 0.0003 mg/l, Daphnia magna (OECD Guideline 202, part 1)

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Information on: alpha-Cypermethrin

Aquatic plants:

EC50 (72 h) > 1 mg/l (growth rate), Scenedesmus subspicatus (OECD Guideline 201)

EC50 (7 d) > 0.00139 mg/l (growth rate), Lemna gibba

Information on: alpha-Cypermethrin

Chronic toxicity to fish:

No observed effect concentration (34 d) 0,03 µg/l, Pimephales promelas

Information on: alpha-Cypermethrin Chronic toxicity to aquatic invertebrates:

No observed effect concentration (21 d), 0,03 μg/l, Daphnia magna

Persistence and degradability

Assessment biodegradation and elimination (H2O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: alpha-Cypermethrin

Assessment biodegradation and elimination (H2O):

Not readily biodegradable (by OECD criteria). -----

Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Alpha-Cypermethrin

Bioaccumulation potential:

Bioconcentration factor: 910, Cyprinus carpio Accumulation in organisms is not to be expected.

Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Alpha-Cypermethrin

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Results of PBT and vPvB assessment

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The product does not contain a substance fullfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal Considerations

Waste treatment methods

Must be sent to a suitable incineration plant, observing 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

Land transport

ADR

Hazard class: 9 Packing group: Ш

ID number: UN 3077 Hazard label: 9, EHSM

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(contains ALPHA-CYPERMETHRIN)

RID

Hazard class: 9 Packing group: Ш ID number: **UN 3077**

Hazard label: 9, EHSM

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Proper shipping name:

(contains ALPHA-CYPERMETHRIN)

Inland waterway transport

ADN

Hazard class: 9 Ш Packing group:

UN 3077 ID number:

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Hazard label: 9, EHSM

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(contains ALPHA-CYPERMETHRIN)

Sea transport

IMDG

Hazard class: 9
Packing group: III

ID number: UN 3077 Hazard label: 9, EHSM Marine pollutant: YES

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(contains ALPHA-CYPERMETHRIN)

Air transport

IATA/ICAO

Hazard class: 9 Packing group: III

ID number: UN 3077 Hazard label: 9, EHSM

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(contains ALPHA-CYPERMETHRIN)

15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

16. Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

Full text of the classifications, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 2 or 3:

T Toxic.

N Dangerous for the environment.

Xi Irritant.

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

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swallowed.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

38 Irritating to skin.

41 Risk of serious damage to eyes.

Aquatic Acute Hazardous to the aquatic environment - acute
Aquatic Chronic Hazardous to the aquatic environment - chronic

Acute Tox. Acute toxicity

STOT SE Specific target organ toxicity — single exposure STOT RE Specific target organ toxicity — repeated exposure

Skin Corr./Irrit. Skin corrosion/irritation

Eye Dam./Irrit. Serious eye damage/eye irritation

H332 Harmful if inhaled.
H301 Toxic if swallowed.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H335 May cause respiratory irritation.

H373 May cause damage to organs () through prolonged or repeated exposure.

H318 Causes serious eye damage.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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.

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