

Safety data sheet

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

Date / Revised: 09.07.2013

Product: **TENOPA**

Version: 3.0

308 04 I

(30264788/SDS_CPA_EU/EN)

Date of print 12.07.2013

1. Substance/preparation and company identification

TENOPA

Use: crop protection product, insecticide

Company:

BASF Aktiengesellschaft

67056 Ludwigshafen

GERMANY

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Telephone: +49 621 60-79321 / -79145

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2. Hazard identification

May cause paraesthesia.

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

3. Composition/information on ingredients

Chemical nature

Biocidal product

suspension concentrate (SC)

Hazardous ingredients

alpha-cypermethrine

Content (W/W): 2.9 %

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

flufenoxuron

Content (W/W): 2.9 %

CAS Number: 101463-69-8

Hazard symbol(s): N

R-phrases: 50/53

Tributyl phenol polyglycol ether

Content (W/W): 0.2 %

CAS Number: 9046-09-7

Hazard symbol(s): Xn, N

R-phrases: 22, 41, 51/53

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. Remove 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, lung oedema, convulsions

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

5. Fire-fighting measures

Suitable extinguishing media:

water spray, water fog, carbon dioxide, foam, dry extinguishing media

Specific hazards:

carbon monoxide, hydrogen chloride, hydrogen cyanide, nitrogen oxides, organochloric compounds, sulfur oxides

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.

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.

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

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

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).

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
pH value:	6 - 8 (20 °C) (measured with the undiluted substance)
Flash point:	Non-flammable.
Density:	approx. 1.03 g/cm ³ (20 °C)
Solubility in water:	dispersible
Surface tension:	approx. 24.9 mN/m (20 °C)
Viscosity, dynamic:	80 - 120 mPa.s (20 °C, 100 1/s)

10. Stability and reactivity

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

Substances to avoid:
strong alkalis

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): 4,296 mg/kg

LC50 rat (by inhalation): > 2.37 mg/l 4 h

Highest concentration available for testing. No mortality was observed.

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

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.

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. Misuse can be harmful to health. May cause paraesthesia.

12. Ecological information

Ecotoxicity

Information on: alpha-cypermethrine

Toxicity to fish:

LC50 (96 h) 0.0028 mg/l, Oncorhynchus mykiss

Information on: flufenoxuron

Toxicity to fish:

LC50 (96 h) > 0.0049 mg/l, Oncorhynchus mykiss

Information on: alpha-cypermethrine

Aquatic invertebrates:

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

Information on: flufenoxuron

Aquatic invertebrates:

EC50 (48 h) 0.00004 mg/l, Daphnia magna

Information on: alpha-cypermethrine

Aquatic plants:

EC50 (96 h) > 0.1 mg/l, Pseudokirchneriella subcapitata

Information on: flufenoxuron

Aquatic plants:

EC50 > 0.004 mg/l, Selenastrum capricornutum

Persistence and degradability

Information on: *alpha-cypermethrine*

Elimination information:

Not readily biodegradable (by OECD criteria).

Information on: *flufenoxuron*

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**Land transport****ADR**

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 3%, FLUFENOXURON 3%)

RID

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 3%, FLUFENOXURON 3%)

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Inland waterway transport**ADNR**

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 3%, FLUFENOXURON
 3%)

Sea transport**IMDG**

Hazard class: 9
 Packing group: III
 ID number: UN 3082
 Hazard label: 9
 Marine pollutant: NO
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
 N.O.S. contains (ALPHA-CYPERMETHRIN 3%, FLUFENOXURON
 3%)

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 3%, FLUFENOXURON
 3%)

15. Regulatory information**Regulations of the European union (Labelling) / National legislation/Regulations****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.

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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.
S24	Avoid contact with skin.
S35	This material and its container must be disposed of in a safe way.
S57	Use appropriate container to avoid environmental contamination.

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

The product contains: ALPHA-CYPERMETHRINE

May cause paraesthesia.

Other regulations

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)

16. Other information

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

T	Toxic.
N	Dangerous for the environment.
Xn	Harmful.
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.
22	Harmful if swallowed.
41	Risk of serious damage to eyes.
51/53	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.