TENOPA SC

BASF Safety data sheet according to 91/155/EEC
Date / Revised: 27.10.2004 Version: 1.5
Product: **TENOPA SC**
308 01 I
(30132093/SDS_CPA_EU/EN)
Date of print 22.04.2005

1. Substance / preparation and company identification
TENOPA SC
Company:
BASF Aktiengesellschaft
Unternehmensbereich Pflanzenschutz
67056 Ludwigshafen, Deutschland
Telephone: +49-621-60-79321/ 79145
Telefax number: +49-621-60-79519
E-mail address: Produktinformation-Pflanzenschutz@basf-ag.de
Emergency information:
Fire brigade BASF Ludwigshafen
Telephone: +49-621-60-43333
Telefax number: +49-621-60-92664

2. Composition / information on ingredients
Chemical nature
crop protection product, insecticide, suspension concentrate (SC)
Hazardous ingredients
alpha-Cypermethrin
Content (W/W): 2.9 %
CAS Number: 67375-30-8
Hazard symbol(s): T, N
R-phrase(s): 25, 37, 48/22, 50/53
flufenoxuron
Content (W/W): 2.9 %
CAS Number: 101463-69-8
Hazard symbol(s): N
R-phrase(s): 50/53
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The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients
are mentioned.

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3. Hazard identification
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
May cause paraesthesia.

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:
Immediately rinse mouth and then drink plenty of water, do not induce vomiting, 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, carbon dioxide, foam
Specific hazards:
carbon monoxide, hydrogen chloride, hydrogen cyanide, nitrogen oxides, sulfur 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. Take off immediately all contaminated clothing.
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. The product is not capable of a dust explosion.
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.

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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 Type P2 or FFP2, (medium efficiency for solid and liquid particles e.g.
EN143,149)
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), polyvinylchloride (0.7 mm) and
other
Eye protection:
Tightly fitting safety goggles (splash goggles) (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
Density: approx. 1.02 g/cm3
(20 °C)
Solubility in water: dispersible
Viscosity, dynamic: 82 mPa.s
(20 °C)

10. Stability and reactivity
Thermal decomposition: No decomposition if stored and handled as

prescribed/indicated.
Substances to avoid:
strong alkalies
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.

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11. Toxicological information

LD50/oral/rat/male: 4,296 mg/kg
LD50/oral/rat/female: 4,703 mg/kg
LC50/by inhalation/rat/male/female: > 2.37 mg/l / 4 h
No mortality was observed.
LD50/dermal/rat/male/female: > 2,000 mg/kg
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.
Additional information:
Misuse can be harmful to health.
May cause paraesthesia.

12. Ecological information

Ecotoxicity

Information on: alpha-Cypermethrin
Toxicity to fish:
Oncorhynchus mykiss/LC50 (96 h): 0.0028 mg/l
Information on: flufenoxuron
Toxicity to fish:
Oncorhynchus mykiss/LC50 (96 h): > 0.0049 mg/l

Information on: alpha-Cypermethrin
Aquatic invertebrates:
Daphnia magna/LC50 (48 h): 0.0001 - 0.0003 mg/l
Information on: flufenoxuron
Aquatic invertebrates:
Daphnia magna/EC50 (48 h): 0.00004 mg/l

Information on: alpha-Cypermethrin
Aquatic plants:
Pseudokirchneriella subcapitata/EC50 (96 h): > 0.1 mg/l
Information on: flufenoxuron
Aquatic plants:
Selenastrum capricornutum/EC50: > 0.004 mg/l

Persistence and degradability

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

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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 : Class 9
Packaging group III
UN-number 3082
Designation of goods ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S.
(Contains: ALPHA-CYPERMETHRINE
3%, FLUFENOXURON 3%)
RID : Class 9
Packaging group III
UN-number 3082
Designation of goods ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S.
(Contains: ALPHA-CYPERMETHRINE
3%, FLUFENOXURON 3%)
Inland waterway transport
ADNR : Class 9
Packaging group III
UN-number 3082
Designation of goods ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S.
(Contains: ALPHA-CYPERMETHRINE
3%, FLUFENOXURON 3%)
Sea transport
IMDG/GGVSee : Class 9
Packaging group III
UN-number 3082
Marine pollutant YES
Exact technical name ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (contains
ALPHA-CYPERMETHRINE 3%,
FLUFENOXURON 3%)
Air transport
ICAO/IATA : Class 9
Packaging group III
UN-number 3082
Exact technical name ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S. (contains
ALPHA-CYPERMETHRINE 3%,
FLUFENOXURON 3%)

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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)
R51/53 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.
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 determinant component(s) for labelling: FLUFENOXURON, 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 2:
T Toxic.
N Dangerous for the environment.
25 Toxic if swallowed.
37 Irritating to respiratory system.
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 information contained herein is based on the present state of our knowledge and does not therefore
guarantee certain properties. Recipients of our product must take responsibility for observing existing
laws and regulations.

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