

PRODUCT SAFETY INFORMATION SHEET

BASF

PRODUCT: **TENOPA**

DATE: 17/02/2004

VERSION: 3

PAGE: 1 of 6

1. SUBSTANCE/PREPARATION AND COMPANY NAME

Product Name: **TENOPA**
HSE Number: 6206
Company: BASF plc
PO Box 4
Earl Road
Cheadle Hulme
Cheadle
Cheshire SK8 6QG

Tel: 0161 485 6222

Fax: 0161 486 0891

Emergency information: 0161 485 6222 (24 hours)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Use: ONLY AS AN INSECTICIDE

Formulation: 2.97% w/w (30 g/l) alphacypermethrin + 2.97% w/w (30 g/l) flufenoxuron.

<u>Hazardous ingredients</u>	<u>CAS No.</u>	<u>g/l</u>	<u>Symbol</u>	<u>R Phrases</u>
\ Alphacypermethrin	67375-30-8	30 (2.97% w/w)	T (Toxic) N (Dangerous for the environment)	R20, R25, R50/53
\ Flufenoxuron	101463-69-8	30 (2.97% w/w)	N (Dangerous for the environment)	R50/53
\ Propylene glycol (Propane-1,2-diol)	57-55-6	12.3% (w/w)	-	-

3. HAZARDS IDENTIFICATION



\ DANGEROUS FOR THE ENVIRONMENT

\ VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
MAY CAUSE PARESTHESIA.

Format based on 91/155/EEC

\ A backslash in the left hand margin indicates an amendment from the previous version.

4. FIRST AID MEASURES

General advice: If a person thinks that they have been exposed to this product and feels unwell, call a doctor or take them to a hospital. Remove all contaminated clothing. Keep them at REST away from source of contamination. DO NOT ALLOW smoking or eating. First aider should avoid becoming contaminated and wear protective clothing if necessary.

Eye contact: Immediately irrigate affected eyes for at least 15 minutes under flowing water, with eyelids open.

Skin contact: Immediately remove contaminated clothing and footwear and flush skin with plenty of water. Wash affected area thoroughly with soap and water as soon as possible.

Ingestion: DO NOT INDUCE VOMITING. Wash out mouth with clean water. Seek medical attention immediately.

Inhalation: Keep person calm, remove to fresh air.

Unconsciousness: If danger of loss of consciousness, place person in recovery position. Apply artificial ventilation if necessary, but care must be taken to avoid contamination of the first aider.

GUIDE TO PHYSICIAN - general advice

Active ingredient group: Alphacypermethrin – pyrethroid
Flufenoxuron – benzoylurea

Toxic effects: This material is of low general toxicity

Symptoms of accidental over exposure: Pyrethroids may cause abnormal numbness or tingling to the skin (paresthesia).
Severe exposure may cause acute neurotoxicity including seizures, and other signs and symptoms such as muscle fasciculations and those of pulmonary edema.

Any unusual symptoms which occur after exposure (by any mode of entry) should be recorded and reported to BASF at Cheadle.

- (i) Treatment should be symptomatic and supportive based on judgement of physician.
- (ii) If the product has been swallowed, gastric lavage with proper laryngeal control may be necessary. For ingestion of small quantities activated charcoal as an absorbent in a dosage of 30 grams in 100ml of water may be considered.
- (iii) Maintenance of ventilation and oxygen therapy to be used as required.
- (iv) If symptomatic therapy is indicated for control of restlessness, anxiety or convulsions, then Diazepam is recommended as the drug of choice.

5. FIRE FIGHTING MEASURES

- Suitable extinguishing media: Water spray, foam and carbon dioxide.
- Possible harmful fumes in a fire: Oxides of carbon, nitrogen and sulfur, hydrogen chloride and fluoride, and organic chlorides and fluorides.
- Protective equipment: Self-contained breathing apparatus and protective clothing.
- Further information: Call the Fire Brigade at once to deal with all fires involving pesticides unless the fire is small and immediately controllable. Spray unopened containers with a mist spray to keep cool. If without risk, remove intact containers from exposure to fire. Contain fire-fighting water, bunding if necessary with sand or earth. Do not allow contamination of public drains or surface or ground waters. Dispose of fire debris and contaminated water as advised in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

6. ACCIDENTAL RELEASE MEASURES

- If spilled: Wear prescribed protective clothing. Clear spillage immediately. Contain spillage and absorb onto earth, sand or suitable absorbent material. Collect contaminated material and place in a marked container for disposal. Thoroughly wash area of spillage. Dispose of contaminated materials as advised in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".
- Wash thoroughly immediately after handling spillages, or at once if contaminated.
- Personal protective equipment: See Section 8.
- Environmental precautions: Do not allow contamination of public drains or surface or ground waters. Inform local water plc if spillage enters drains and the Environment Agency (England & Wales), the Scottish Environmental Protection Agency (Scotland), or the Environment and Heritage Service (Northern Ireland) if it enters surface or ground waters. Keep people and animals away.

7. HANDLING AND STORAGE

- Handling: Do not breathe vapour/mist. Avoid contact with skin and eyes. When using do not eat, drink or smoke.
- Protection against fire and explosion: Product is non-combustible. No special precautions necessary.
- Storage: Store separately from food, drink and animal feed. Keep dry and frostproof in a suitable pesticide store. Keep away from sources of ignition and protect from exposure to fire. Keep away from heat and direct sunlight. Protect from temperatures above 40°C.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**(i) PRECAUTIONS (from product label)**

Engineering control of operator exposure must be used where reasonably practicable in addition to the following items of personal protective equipment.

Wear suitable protective clothing, gloves and eye/face protection.

AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDRER REGULARLY.

DO NOT BREATHE SPRAY. Otherwise wear respiratory protective equipment and eye protection (See HSE Guidance Booklet HS (G) 53: The Selection, Use and Maintenance of Respiratory Protective Equipment – A Practical Guide”).

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

COVER FOOD, FOOD PREPARING EQUIPMENT AND EATING UTENSILS before application.

COVER WATER STORAGE TANKS before application.

DO NOT APPLY TO SURFACES on which food or feed is stored, prepared or eaten.

DO NOT APPLY TO CLOTHING OR BEDDING.

UNPROTECTED PERSONS AND ANIMALS SHOULD BE KEPT AWAY FROM TREATED AREAS UNTIL SURFACES ARE DRY.

EXTREMELY DANGEROUS TO FISH AND OTHER AQUATIC LIFE.

Do not contaminate ground, waterbodies or watercourses with chemicals or used container.

REMOVE OR COVER FISH TANKS AND BOWLS before application.

Do not empty into drains.

DO NOT USE NEAR DRAINS, PREVENT ANY SURFACE RUN-OFF FROM ENTERING DRAINS.

DO NOT APPLY DIRECTLY TO ANIMALS.

HAZARDOUS TO BEES.

THIS MATERIAL AND ITS CONTAINER must be disposed of in a safe way.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

AVOID CONTACT WITH SKIN.

WASH ANY CONTAMINATION from skin or eyes immediately.

WASH HANDS AND EXPOSED SKIN before meals and after use.

DO NOT HANDLE TREATED FABRICS UNTIL DRY AND AIR THOROUGHLY BEFORE USE.

Keep out of the reach of children.

KEEP IN A SAFE PLACE.

Keep away from food, drink and animal feedingstuffs.

Use appropriate containment to avoid environmental contamination.

(ii) PERSONAL PROTECTIVE EQUIPMENT

In tests with a range of pesticide products, protective gloves made of nitrile rubber at least 0.5mm thick and 300mm long have been found to be the most suitable. Gloves made of viton, butyl rubber, neoprene and PVC can also offer good protection. Gloves must protect the whole hand and wrist and repeated use of these gloves depends upon spillages being washed off immediately. The gloves should be thoroughly washed after each operation. Face shields should conform to BS EN 166. Respirators should conform to BS EN 149, filter type P2.

The wearing of other personal protective equipment may be required to supplement the items listed above. These are described in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings". Decontaminate all personal protective equipment after use. When this is not possible dispose of as contaminated wastes.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION contd.

(iii) OCCUPATIONAL EXPOSURE LIMITS (OESs)

<u>Hazardous ingredients</u>	<u>Long term exposure limit</u> (8 hour TWA reference period)
Propylene glycol (Propane-1,2-diol)	
Vapour & particulates (total)	150 ppm / 474 mg.m ⁻³
Particulates	10 mg.m ⁻³

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Flowable liquid
Colour:	White
\ Density:	~1.06 g/ml @ 20°C
Solubility in water:	Disperses in water

10. STABILITY AND REACTIVITY

- \ Hazardous reactions: None provided product is correctly stored and handled.
- \ Substances to avoid: None known.
- \ Hazardous decomposition products: None provided product is correctly stored and handled.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

- \ Ingestion: Low toxicity (LD50 oral (rat): 4478 mg/kg bw)
- \ Skin contact: Non-irritant (LD50 dermal (rat): >2000 mg/kg bw)
- \ Inhalation: Unlikely to cause a problem (LC50 inhalation (rat) 4h: >2.37 mg/l)
- \ Eye contact: Non-irritant
- \ Sensitising potential: No sensitising potential

12. ECOLOGICAL INFORMATION

- \ Information for the active substance alpha-cypermethrin.
- \ Ecotoxic effects: Rainbow trout (*Oncorhynchus mykiss*) LC50 96h: 0.0028 mg/l
- \ Pseudokirchneriella subcapitata EC50 (96 h): >0.1 mg/l
- \ Daphnia magna LC50 (48h): 0.0003 mg/l

13. DISPOSAL CONSIDERATIONS

Leaking containers: Damaged or leaking containers must be dealt with as soon as noticed by sealing them in impermeable containers.

Disposal of used containers: Follow the directions given in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

Used, cleaned, crushed or punctured containers may be burned or buried on farm under controlled conditions, or will generally be accepted at licensed disposal sites.

Disposal of diluted pesticide: Advice for the disposal or re-use of diluted pesticide is given in the MAFF/HSE "Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings".

14. TRANSPORT INFORMATION

UN Number : 3082
Packing Group : III

ROAD/RAIL

ADR/RID Class : 9
Environmentally hazardous substance, liquid, N.O.S. (contains alpha-cypermethrin).

SEA

IMDG Class : 9
Marine pollutant Yes
: Environmentally hazardous substance, liquid, N.O.S. (contains alpha-cypermethrin).

AIR

ICAO/IATA Class : 9
Environmentally hazardous substance, liquid, N.O.S. (contains alpha-cypermethrin).

15. REGULATORY INFORMATION

This product is approved under the "Control of Pesticides Regulations 1986" and is labelled accordingly.

R-phrases - see Section 3
S-phrases - see Section 8

The Control of Substances Hazardous to Health Regulations (COSHH) may apply to the use of this product at work.

This product is subject to The Carriage of Dangerous Goods by Road Regulations, The Carriage of Dangerous Goods by Rail Regulations and The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations and amendments (United Kingdom).

16. OTHER INFORMATION

For further medical advice Doctors should contact the National Poisons Information Service.

In an emergency further information can be obtained from the National Chemical Emergency Centre 01865 407333 (24 hours).

A backslash in the left hand margin indicates 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.