

PRODUCT: **TENOPA**

DATE: 25/04/2003  
 VERSION: 2  
 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<br>(2.97% w/w) | T (Toxic)<br>Xn (Harmful)<br>Xi (Irritant)<br>N (Dangerous for the environment) | R25, R48/22,<br>R37, R50/53 |
| Flufenoxuron                        | 101463-69-8    | 30<br>(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**

Environmental hazards: **EXTREMELY DANGEROUS TO FISH OR OTHER AQUATIC LIFE. Do not contaminate watercourses or ground water. DANGEROUS TO BEES**

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.

Format based on 91/155/EEC

**4. FIRST AID MEASURES contd.**

**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 or fog, foam, dry chemical and carbon dioxide.

**Possible harmful fumes in a fire:** Oxides of carbon and nitrogen, 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:** Keep away from sources of ignition and protect from exposure to fire and heat.
- Storage:** Keep dry and frostproof in a suitable pesticide store. Store separately from food, drink and animal feed.

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

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SYNTHETIC RUBBER/PVC GLOVES when using plus EYE PROTECTION when diluting. AVOID EXCESSIVE CONTAMINATION OF COVERALLS AND LAUNDRER REGULARLY.

DO NOT BREATHE SPRAY MIST (S23). Otherwise wear respiratory protective equipment and eye protection (see HSE Guidance Booklet HS (G) 53 "Respiratory protective equipment - a practical guide for users").

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

COVER WATER STORAGE TANKS before application.

DO NOT APPLY TO SURFACES on which food 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 watercourses or ground water.

Remove or cover fish tanks and bowls before application.

DO NOT APPLY TO DRAINS.

DO NOT APPLY DIRECTLY TO ANIMALS.

DANGEROUS TO BEES.

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

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION contd.****(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.

**(iii) OCCUPATIONAL EXPOSURE LIMITS (OELs)**

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

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                      |                    |
|----------------------|--------------------|
| Form:                | Flowable liquid    |
| Colour:              | White              |
| Density:             | ~1.02 g/ml @ 20°C  |
| Solubility in water: | Disperses in water |

**10. STABILITY AND REACTIVITY**

|                                   |   |
|-----------------------------------|---|
| Hazardous reactions:              | None provided product is correctly handled  |
| Substances to avoid:              | Corrosive to metals   |
| Hazardous decomposition products: | Oxides of carbon and nitrogen, hydrogen chloride and fluoride, and organic chlorides and fluorides. |

**11. TOXICOLOGICAL INFORMATION****Acute toxicity:**

|                        |                             |  |
|------------------------|-----------------------------|--|
| Ingestion:             | Low toxicity                | (LD50 oral (rat): >4000 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**

Based on results from standard laboratory studies with the product's active ingredients, this formulation is classified as extremely dangerous to fish and other aquatic life, and dangerous to bees.

**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 (alpha-cypermethrin 3%).

**SEA**

IMDG Class : 9

Environmentally hazardous substance, liquid, N O S (alpha-cypermethrin 3%). Marine pollutant

**AIR**

ICAO/IATA Class : 9

Environmentally hazardous substance, liquid, N O S (alpha-cypermethrin 3%).

**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.

---

Tenopa