

PRODUCT: **NEMOLT**

DATE: 10/03/2004

VERSION: 2

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1. **SUBSTANCE/PREPARATION AND COMPANY NAME**

Product Name: **NEMOLT**
 MAPP Number: 10226
 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: Horticultural insecticide.

Formulation: A suspension concentrate containing 150 g/l (13.6% w/w) teflubenzuron.

<u>Hazardous ingredients</u>	<u>CAS No.</u>	<u>Content (% w/w)</u>	<u>Symbol</u>	<u>R Phrases</u>
\ Teflubenzuron	83121-18-0	13.6	N (Dangerous for the environment)	50/53
\ Ethyleneglycol	107-21-1	9.0	Xn (Harmful)	R22

3. **HAZARDS IDENTIFICATION**



DANGEROUS FOR THE ENVIRONMENT

VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT (R50/53).

TOXIC TO BEES (R57).

Contains formaldehyde, 5-chloro-2-methyl-2,3-dihydroisothiazol-3-on and 2-Methyl-2,3-dihydroisothiazol-3-on. May produce an allergic reaction.

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.

4. FIRST AID MEASURES contd.

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: teflubenzuron: benzoylurea

Toxic effects: Material is of low general toxicity.

Symptoms of accidental over exposure: Unknown.

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

Treatment should be symptomatic and supportive based on judgement of physician.

\ No known specific antidote

\ Administer corticosteroid dose aerosol to prevent pulmonary odema.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Alcohol resistant foam, dry chemical and carbon dioxide.

\ Possible harmful fumes in a fire: Carbon monoxide, carbon dioxide, hydrogen fluoride, hydrogen chloride, nitrogen oxides.

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: No special measures are necessary if stored and handled as prescribed. Avoid contact with skin and eyes. When using do not eat, drink or smoke.

Protection against fire and explosion: The substance/product is non-combustible. Product is not explosive.

Storage: Keep dry and frostproof in a suitable pesticide store. Store separately from food, drink and animal feed.

 \ Keep away from heat. Protect from the effects of light. Protect from

 \ temperatures below -20°C and above 40°C.

8. **EXPOSURE CONTROLS AND PERSONAL PROTECTION**

(i) **SAFETY PRECAUTIONS** (from product label)
 Precautions marked * are a legal requirement

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 \ **Operator protection**
 \ *Engineering controls of operator exposure must be used where reasonably practicable, in addition to the following items of personal protective equipment:
 \ *WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
 \ *However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.
 \ WASH HANDS before meals and after work.

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 \ **Environmental protection**
 \ *DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

 \
 \ **Storage and disposal**
 \ KEEP IN ORIGINAL CONTAINER, tightly closed and in a safe place.
 \ EMPTY CONTAINER COMPLETELY and dispose of safely.
 \ PROTECT FROM FROST.

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.

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 (OESs)

<u>Hazardous ingredients</u>	<u>Long term exposure limit.</u> (8-hr. TWA ref. period)	<u>Short term exposure limit.</u> (15 min. ref. period).
Ethylene glycol (CAS 107-21-1):		
particulate	10 mg.m ⁻³	-
vapour	52 mg.m ⁻³	104 mg.m ⁻³

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	White
Odour:	Characteristic
Flash point:	Not applicable
Vapour pressure:	Not available
Density:	1.11 g/ml (20°C)
Solubility in water:	Disperses in water

10. STABILITY AND REACTIVITY

Hazardous reactions:	No hazardous reactions known.
Substances to avoid:	No substances are known that should be avoided.
Hazardous decomposition products:	No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

Ingestion:	Low toxicity	(LD50 oral (rat): >5000 mg/kg)
Skin contact:	Non-irritant	(LD50 dermal (rat): >5000 mg/kg)
Inhalation:	Unlikely to cause a problem	
Eye contact:	Non-irritant	
Sensitising potential:	No sensitising effect	

12. ECOLOGICAL INFORMATION

- \ *Rainbow trout (*Oncorhynchus mykiss*) LC50 96h: >500 mg/l
- \ *Algae (*S. subspicatus*) EC50 (96 h): >1.0 mg/l
- \ *Daphnia magna* EC50 (48h): 0.0024 mg/l

- \ *Information on the active substance teflubenzuron.

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".

- 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; teflubenzuron).

- \ **SEA**
- \ IMDG Class : 9
- \ Marine pollutant : Yes
- \ Environmentally hazardous substance, liquid, N.O.S., (contains; teflubenzuron).

- \ **AIR**
- \ ICAO/IATA Class : 9
- \ Environmentally hazardous substance, liquid, N.O.S., (contains; teflubenzuron).

- \ Pack sizes : 1 litre 5 litre
- \ No per outer : 10 4

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 and Use of Transportable Pressure Equipment Regulations 2004 and their amendments.

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.
