



1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product information

Trade name : **Caste off**

Usage : fungicide

Company : Nufarm UK Limited
Crabtree Manorway North
Belvedere
KENT DA17 6BQ
UK

Emergency telephone number : **+44 (0)20 8319 7222**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : suspension concentrate (SC)
Contains 500g/L Carbendazim

Components	CAS-No.	EINECS-No. ELINCS-No.	Symbol(s):	R-phrases(s)	Concentration (w/w)
carbendazim	10605-21-7	234-232-0	T, N	R46, R50/53, R60, R61	42.7 %

3. HAZARDS IDENTIFICATION

May cause heritable genetic damage.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Possible risk of impaired fertility.
Possible risk of harm to the unborn child.

4. FIRST AID MEASURES

Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin contact : Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. If symptoms persist, call a physician. Wash contaminated clothing before re-use.

Inhalation : Move to fresh air. If symptoms persist, call a physician.

Ingestion : Do not induce vomiting. Rinse mouth. If conscious, drink plenty of water. If symptoms persist, call a physician.

Notes to physician



Treatment : Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Specific hazards during fire fighting : In the event of fire (HCl, Cl₂, CO) may be formed.
- Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.
- Suitable extinguishing media : water spray, carbon dioxide (CO₂), dry powder, alcohol-resistant foam
- Extinguishing media which must not be used for safety reasons : high volume water jet
- Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear personal protective equipment. (see Chapter 8)
- Environmental precautions : Do not flush into surface water or sanitary sewer system.
- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Sweep up and shovel into suitable containers for disposal.
- Additional advice : Never return spills in original containers for re-use.

7. HANDLING AND STORAGE

Handling

- Safe handling advice : Wear personal protective equipment.

Storage

- Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a cool, well-ventilated place.
- Advice on common storage : Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

- Respiratory protection : No special protective equipment required.



Hand protection	:	PVC or nitrile-rubber gloves
Eye protection	:	safety glasses, or, goggles
Skin and body protection	:	protective suit
Hygiene measures	:	Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.
Protective measures	:	Avoid contact with skin, eyes and clothing. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : liquid

Colour : white

Other data

Flash point : not applicable

Vapour pressure : not applicable

Density : 1.17 g/cm³
at 20 °C

Relative vapour density : no data available

Partition coefficient (n-octanol/water) : log POW = 1.51
(pH 7)

10. STABILITY AND REACTIVITY

Conditions to avoid : none under normal use

Materials to avoid : strong acids

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50 rat
Dose: > 15,000 mg/kg

Acute dermal toxicity : LD50 rat
Dose: > 2,000 mg/kg

Acute inhalation toxicity : LC50 rat
Dose: > 10 mg/l

Skin irritation : Classification: No skin irritation



Eye irritation : Classification: No eye irritation
Sensitization : Classification: Not sensitizing to skin.
Evaluation mutagenicity : Muta. Cat.2

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : LC50
Dose: 0.83 mg/l
Testing period: 96 h
Toxicity to daphnia : EC50
Dose: 0.13 - 0.22 mg/l
Testing period: 48 h
Toxicity to algae : EC50
Dose: 1.3 mg/l
Exposure time: 72 h

13. DISPOSAL CONSIDERATIONS

Product : Dispose of product and packaging in accordance with The Green Code. (The Code of Practice for the safe use of Pesticides on Farms and Holdings.) A MAFF Publication.
Contaminated packaging : Do not dispose with household waste. Do not re-use empty containers. Dispose at licensed waste disposal site capable of accepting pesticides in compliance with applicable regulations.
According to European Directive 2000/532/EC as amended :
Waste Key Number : 02 01 08 (agrochemical waste containing dangerous substances)

14. TRANSPORT INFORMATION

UN-No : **3082**
Description of the goods : UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*

ADR/RID

Class : 9
Packaging group : III

IMDG

Class : 9
Packaging group : III
Marine pollutant : Y

IATA-DGR



Class : 9
Packaging group : III

15. REGULATORY INFORMATION

Symbol(s) : T Toxic
N Dangerous for the environment

R-phrase(s) : R46 May cause heritable genetic damage.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R60 May impair fertility.
R61 May cause harm to the unborn child.

S-phrase(s) : S35 This material and its container must be disposed of in a safe way.
S53 Avoid exposure - obtain special instructions before use.
S57 Use appropriate containment to avoid environmental contamination.

Other regulations : The product is classified and labelled in accordance with National and European directives.

16. OTHER INFORMATION

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(Alterations are indicated in the left hand margin by: ||)

Full text of any R phrases referred to under heading 2:

- R46 - May cause heritable genetic damage.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R60 - May impair fertility.
- R61 - May cause harm to the unborn child.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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SAFETY DATA SHEET
according to EC directive 2001/58/EC
Caste off
Version 1 (UK)

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