



## SAFETY DATA SHEET

according to regulation (EC) no 1907/2006

**Caste off**

Version 2 (UK)

Issue date 07/30/2008

### 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

Telephone : +44 (0)20 8319 7222  
Telefax : +44 (0)20 8319 7200  
E-mail : infouk@uk.nufarm.com

Emergency telephone number : **+44 (0)20 8319 7289**

### 2. 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.

### 3. 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 %

### 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,Cl<sub>2</sub>,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 (CO<sub>2</sub>), 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 : **lightweight protective clothing**

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/cm<sup>3</sup>  
at 20 °C

Relative vapour density : no data available

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

## 10. STABILITY AND REACTIVITY

Conditions to avoid : none under normal use



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Materials to avoid : strong acids and strong bases

## 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



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### 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 EC directive 94/62/EC
- 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



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### 15. REGULATORY INFORMATION

Symbol(s):	: T N	Toxic Dangerous for the environment
R-phrase(s)	: R46 R50/53  R60 R61	May cause heritable genetic damage. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  May impair fertility. May cause harm to the unborn child.
S-phrase(s)	: S35  S53  S57	This material and its container must be disposed of in a safe way. Avoid exposure - obtain special instructions before use. 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

PRINT DATE : 30/07/2008

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

Full text of any R phrases referred to under heading 3:

- 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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