

SAFETY DATA SHEET according to regulation (EC) no 1907/2006 Caste off

Issue date 11/02/2009

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

Product information

Trade name	: Caste off
Usage	: fungicide
Company	: Nufarm UK Limited Wyke Lane Wyke Bradford West Yorkshire BD12 9E United Kingdom
Telephone	: +44 (0)1274 691234
Telefax	: +44 (0)1274 691176
E-mail	: infouk@uk.nufarm.com
Emergency telephone	: +44(0)1274 696603

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

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

Components	CAS-No.	EINECS-No.	Symbol(s)	R-phrase(s)	Concentration
		ELINCS-No.			(w/w)
carbendazim	10605-21-7	234-232-0	Τ, Ν	R46, R50/53, R60, R61	42.7 %
Propane-1,2-diol	57-55-6	200-338-0		n.c.	5% - 10%

4. FIRST AID MEASURES

Eye contact	Rinse immediately with plenty of water, al for at least 15 minutes. Obtain medical at	•
Skin contact	Take off all contaminated clothing immed immediately with soap and plenty of wate call a physician. Wash contaminated cloth	r. If symptoms persist,
Inhalation	Move to fresh air. If symptoms persist, ca	ll a physician.
Ingestion	Do NOT induce vomiting. Rinse mouth. If	conscious, drink



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		plenty of water. If symptoms persist, call a physician.
Notes to physician		
Treatment	:	Treat symptomatically.
FIRE-FIGHTING MEASU	RE	S
Specific hazards during fire fighting	:	In the event of fire (HCI,CI2,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 shall 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.
ACCIDENTAL RELEASE	EM	EASURES
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.
HANDLING AND STORA	GE	E
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.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	occupational exposure limits	Note
carbendazim	10605-21-7		
Propane-1,2-diol	57-55-6	474 mg/m3	Vapour and particulates

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 Colour	:	liquid 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 REACT	νιτγ
	Conditions to avoid	No dangerous reaction known under conditions of normal use.
	Materials to avoid	Strong acids and strong bases
11.		MATION
	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
	Sensitisation	Classification: Not sensitizing to skin.
	Evaluation mutagenicity	Muta. Cat.2
12.	ECOLOGICAL INFORMA	TION
	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



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		Dose: 1.3 mg/l Exposure time: 72 h
13. DISPOSAL CONSIDE	ERAT	IONS
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 Di Waste Key Number	irective :	2000/532/EC as amended : 02 01 08 (agrochemical waste containing dangerous substances)
14. TRANSPORT INFOR	ΜΑΤΙ	ON
UN-Number	:	3082
Description of the goods	:	UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.*
<u>ADR/RID</u> Class Packaging group	:	9 III
IMDG Class Packaging group Marine pollutant	:	9 III Y
IATA-DGR Class Packaging group	:	9 III



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 container to avoid environmental contamination.
Other regulations	•	is classified and labelled in accordance with EC espective national laws.

16. OTHER INFORMATION

Print Date

: 02/11/2009

(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.
n.c. - This chemical substance is not classified in the Annex VI of Regulation (EC) No 1272/2008.



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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.

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.