

**DEDICATE SC300 20X250ML BOT GB**Version 1 / GB
1020000083811/8
Revision Date: 07.11.2007
Print Date: 07.11.2007**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name DEDICATE SC300 20X250ML BOT GB
Product code (UVP) 06348084
Usage Fungicide
Company Bayer Environmental Science
230 Cambridge Science Park
Milton Road
Cambridge
Cambridgeshire CB4 0WB
Great Britain

Telephone +44(0)1223 226500
Telefax +44(0)1223 426240
Responsible Department Email: ukinfo@bayercropscience.com

Emergency telephone number 0800-220876 (UK 24 hr)
+44(0)1603-242424 (Overseas 24 hr)

2. HAZARDS IDENTIFICATION**Risk advice to man and the environment**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Possible risk of harm to the unborn child.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Suspension concentrate (=flowable concentrate)(SC)
100 g/l Trifloxystrobin, 200 g/l Tebuconazole

Hazardous components

| Chemical Name | CAS-No. / EINECS-No. | Symbol(s) | R-phrases(s) | Concentration [%] |
|--------------------------------|----------------------|-----------|------------------|-------------------|
| Tebuconazole | 107534-96-3 | Xn, N | R22, R51/53, R63 | 18.20 |
| Trifloxystrobin | 141517-21-7 | Xi, N | R43, R50/53 | 9.10 |
| Fatty alcohol polyglycol ether | 61791-13-7 | Xn | R22, R41 | > 1.00 - < 25.00 |

For the full text of the R phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES**General advice**

Remove contaminated clothing immediately and dispose of safely. Move out of dangerous area. Place and transport victim in stable position (lying sideways).



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Inhalation

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

Skin contact

Wash off thoroughly with plenty of water and soap, if available with polyethyleneglycol 400, subsequently rinse with water.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.

Notes to Physician

Treatment

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray
Carbon dioxide (CO₂)
Foam
Sand

Specific hazards during fire fighting

In the event of fire the following can be released:
Hydrogen cyanide (hydrocyanic acid)
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Hydrogen fluoride (HF)

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.
In the event of fire, wear self-contained breathing apparatus.

Further information

Contain the spread of the fire-fighting media.
Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Avoid contact with spilled product or contaminated surfaces.
Use personal protective equipment.

Environmental Precautions

Do not allow to get into surface water, drains and ground water.
If spillage enters drains leading to sewage works inform local water company immediately.
If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

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Clean contaminated floors and objects thoroughly, observing environmental regulations.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Keep in suitable, closed containers for disposal.

Additional Advice

Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE**Handling**

Advice on protection against fire and explosion
Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers
Keep containers tightly closed in a dry, cool and well-ventilated place.

Storage stability

Storage temperature > -5 - 40 °C

Suitable materials

HDPE (high density polyethylene)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

Components with workplace control parameters

| Components | CAS-No. | Control parameters | Update | Basis |
|-----------------|-------------|-----------------------|--------|----------|
| Tebuconazole | 107534-96-3 | 0.2 mg/m ³ | | OES BCS* |
| Trifloxystrobin | 141517-21-7 | 2.7 mg/m ³ | | OES BCS* |

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory Protection

No personal respiratory protective equipment normally required.
Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand Protection

Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when

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contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.

Eye protection Wear goggles conforming to EN166 (Field of Use 5 or equivalent).

Skin and body protection Wear standard coverall and type 6 suit.
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

Hygiene measures

Avoid contact with skin, eyes and clothing.
Keep working clothes separately.
Wash hands immediately after work, if necessary take a shower.
Remove soiled clothing immediately and clean thoroughly before using again.
Garments that cannot be cleaned must be destroyed (burnt).
Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form suspension
Colour white
Odour weak, characteristic

Safety data

pH 6 - 8 at 100 % (20 °C)

Flash point > 100 °C
No flash point - Determination conducted up to the boiling point.

Autoignition Temperature 415 °C

Density approx. 1.10 g/cm³ at 20 °C

Viscosity, dynamic 0.12 Pas at 40 °C

Viscosity, kinematic < 0.001 mm²/s at 40 °C

Surface tension 34.5 mN/m

Explosivity Not explosive

10. STABILITY AND REACTIVITY

Conditions to Avoid Extremes of temperature and direct sunlight.

Hazardous Reactions No hazardous reactions when stored and handled according to prescribed instructions.
Stable under recommended storage conditions.

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11. TOXICOLOGICAL INFORMATION

| | |
|---------------------------|--|
| Acute Oral Toxicity | LD50 (rat) approx. 2,500 mg/kg |
| Acute Inhalation Toxicity | LC50 (rat) > 2.43 mg/l Exposure time: 4 h Highest attainable concentration. Determined in the form of a respirable aerosol. |
| Acute Dermal Toxicity | LD50 (rat) > 4,000 mg/kg |
| Skin Irritation | No skin irritation. (rabbit) |
| Eye Irritation | Slight irritant effect - does not require labelling. (rabbit) |
| Sensitization | Non-sensitizing. (guinea pig) OECD Test Guideline 406, Magnusson & Kligman test |

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

| | |
|---------------------|---|
| Toxicity to Fish | LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 0.286 mg/l Exposure time: 96 h |
| Toxicity to daphnia | EC50 (Water flea (<i>Daphnia magna</i>)) 0.224 mg/l Exposure time: 48 h |
| Toxicity to algae | (<i>Pseudokirchneriella subcapitata</i>) 0.99 mg/l Growth rate Exposure time: 72 h |

13. DISPOSAL CONSIDERATIONS**Product**

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

Contaminated packaging

Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.

Add washings to sprayer at time of filling.

Dispose of empty and cleaned packaging safely.

Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose.

Return large containers to supplier.

Follow advice on product label and/or leaflet.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

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| | |
|--------------------------|---|
| UN-Number | 3082 |
| Labels | 9 |
| Packaging group | III |
| Hazard no. | 90 |
| Description of the goods | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOL, TRIFLOXYSTROBIN SOLUTION) |

IMDG

| | |
|--------------------------|---|
| UN-Number | 3082 |
| Labels | 9 |
| Packaging group | III |
| EmS | F-A , S-F |
| Marine pollutant | Marine pollutant |
| Description of the goods | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOL, TRIFLOXYSTROBIN SOLUTION) |

IATA

| | |
|--------------------------|--|
| UN-Number | 3082 |
| Labels | 9 |
| Packaging group | III |
| Description of the goods | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOL, TRIFLOXYSTROBIN SOLUTION) |

UK 'Carriage' Regulations

| | |
|--------------------------|---|
| UN-Number | 3082 |
| Labels | 9 |
| Packaging group | III |
| Hazard no. | 90 |
| Emergency action code | 3Z |
| Description of the goods | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOL, TRIFLOXYSTROBIN SOLUTION) |

15. REGULATORY INFORMATION

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.

Classification:

Labelling according to EC Directives

Hazardous components which must be listed on the label:

- Tebuconazole
- Trifloxystrobin

Symbol(s)

| | |
|----|-------------------------------|
| Xn | Harmful |
| N | Dangerous for the environment |

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| | |
|-------------|--|
| R-phrase(s) | |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R63 | Possible risk of harm to the unborn child. |
| S-phrase(s) | |
| S35 | This material and its container must be disposed of in a safe way. |
| S36/37 | Wear suitable protective clothing and gloves. |
| S57 | Use appropriate container to avoid environmental contamination. |

CLASSIFICATION ACCORDING TO SPECIFIC UK REGULATIONS:

The labelling information below is that which has been approved under 'The Control of Pesticides Regulations 1986' and/or 'Part III of the Food and Environment Protection Act 1985' and/or 'Plant Protection Product Regulations 1999' and any subsequent amendments and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this 'Safety Data Sheet'.

| | |
|-----------------------|---|
| Symbol(s) | |
| Xn | Harmful |
| N | Dangerous for the environment |
| R-phrase(s) | |
| R37 | Irritating to respiratory system. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R63 | Possible risk of harm to the unborn child. |
| S-phrase(s) | |
| S23 | Do not breathe spray. |
| S35 | This material and its container must be disposed of in a safe way. |
| S36/37 | Wear suitable protective clothing and gloves. |
| S57 | Use appropriate container to avoid environmental contamination. |
| Exceptional labelling | |
| | To avoid risks to man and the environment, comply with the instructions for use. Contains trifloxystrobin. May produce an allergic reaction. |
| Further information | |
| | WHO-classification: III (Slightly hazardous) |

16. OTHER INFORMATION**Further information**

Text of R phrases mentioned in Section 3:

| | |
|--------|--|
| R22 | Harmful if swallowed. |
| R41 | Risk of serious damage to eyes. |
| R43 | May cause sensitization by skin contact. |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R63 | Possible risk of harm to the unborn child. |

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any



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appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.