

**CAPITAN® 40**

Version 2.1

Revision Date 05.06.2004

Ref. 130000000391

This SDS adheres to the standards and regulatory requirements of Great Britain and may not meet the regulatory requirements in other countries.

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product information**

Product name : CAPITAN® 40

Synonyms : DPX-H6573-384, Altiris S, Sanction S, B10585576

Use of the Substance/Preparation : fungicide

Company : Du Pont (U.K.) Limited  
Wedgwood Way  
SG1 4QN Stevenage

Telephone : +4401438734450

Telefax :

Emergency telephone number : +44-(0)2871-861.313

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No.	EC-No.	Classification	Concentration [%]
Flusilazole	85509-19-9		Carc.Cat.3; R40 Repr.Cat.2; R61 Xn; R22 N; R51 -R53	38
Octylphenoxy polyethoxy ethanol	9036-19-5	Polymer	Xn; R22 Xi; R41 R52/53	29
1-Dodecanol	112-53-8	203-982-0	N; R50	10

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

**3. HAZARDS IDENTIFICATION**

Harmful if swallowed.  
Limited evidence of a carcinogenic effect.  
May cause harm to the unborn child.  
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**4. FIRST AID MEASURES**

General advice : Never give anything by mouth to an unconscious person. If breathing is irregular or stopped, administer artificial respiration. For specialist advice physicians should contact the National Poisons Information Service, (24-hr), Tel: 0870-600-6266.

Inhalation : Move to fresh air. Consult a physician.

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- Skin contact : Wash off immediately with soap and plenty of water. Take off all contaminated clothing immediately. If skin irritation persists, call a physician.
- Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. Consult a physician.
- Ingestion : Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Consult a physician.

**5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : water spray, foam, carbon dioxide (CO<sub>2</sub>),
- Extinguishing media which must not be used for safety reasons : high volume water jet, (contamination risk),
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers / tanks with spray water.

**6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions : Wear personal protective equipment.
- Environmental precautions : Do not flush into surface water or sanitary sewer system. Do not contaminate surface water. Do not allow material to contaminate ground water system.
- Methods for cleaning up : Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Use approved industrial vacuum cleaner for removal. Shovel into suitable container for disposal.

**7. HANDLING AND STORAGE****Handling**

- Advice on safe handling : Provide adequate ventilation. Wear personal protective equipment.
- 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. Store in a place accessible by authorized persons only. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of children.

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Advice on common storage : Keep away from: oxidizing agents

Other data : Do not freeze. Stable under recommended storage conditions.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Engineering measures**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

Respiratory protection : Respirator with filter for organic vapour

Hand protection : Material: nitrile rubber  
Glove thickness: 0,4 - 0,7 mm  
Wearing time: 480 min  
solvent-resistant gloves, Avoid natural rubber gloves., Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection : safety glasses with side-shields

Skin and body protection : lightweight protective clothing protective suit

Hygiene measures : Wash hands and face before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.

Protective measures : All chemical protective clothing should be visually inspected prior to use. Clothing and gloves should be replaced in case of chemical or physical damage or if contaminated.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : liquid,

Colour : brown,

Odour : solvent,

pH : ca. 6,0 at 10 g/l ( 20 °C)

Flash point : 96 °C , Method: closed cup

Density : ca. 1,06 g/cm<sup>3</sup>

Water solubility : , emulsifiable

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**10. STABILITY AND REACTIVITY**

- Materials to avoid : Incompatible with oxidizing agents.,
- Hazardous decomposition products : Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, hydrogen fluoride,
- Hazardous reactions : Heating can release vapours which can be ignited.

**11. TOXICOLOGICAL INFORMATION**

- Acute oral toxicity : LD50/rat : 1 696 mg/kg
- Acute inhalation toxicity : LC50/4 h/rat : > 4,9 mg/l
- Acute dermal toxicity : LD50/rat : > 2 000 mg/kg
- Skin irritation : No skin irritation
- Eye irritation : No eye irritation
- Sensitization : Did not cause sensitization on laboratory animals.
- Assessment carcinogenicity : Carcinogenic Category 3
- Assessment toxicity to reproduction : Toxic to Reproduction Category 2

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

- Biodegradability : According to the results of tests of biodegradability this product is not readily biodegradable.

**Ecotoxicity effects**

- Toxicity to fish : LC50/96 h/Rainbow trout: 2,18 mg/l
- Toxicity to algae : EC50/120 h/selenastrum capricornutum: 5 mg/l
- Aquatic toxicity : EC50/48 h/Daphnia: 3,17 mg/l

**13. DISPOSAL CONSIDERATIONS**

- Product : In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent

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authorities. Do not contaminate ponds, waterways or ditches with chemical or used container.

Contaminated packaging : Do not re-use empty containers.

**14. TRANSPORT INFORMATION****ADR**

Class: 9  
 Packaging group: III  
 Classification Code: M6  
 HI No.: 90  
 UN-No: 3082  
 Labelling No.: 9  
 Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (contains Flusilazole)

**IATA\_C**

Class: 9  
 Packaging group: III  
 UN-No: 3082  
 Labelling No.: 9MI  
 Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (contains Flusilazole)

**IMDG**

Class: 9  
 Packaging group: III  
 UN-No: 3082  
 Labelling No.: 9  
 Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (contains Flusilazole)

**15. REGULATORY INFORMATION****Labelling according to EEC Directive**

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

Hazardous components: Flusilazole

R-phrase(s) : R22 Harmful if swallowed.  
 R40 Limited evidence of a carcinogenic effect.  
 R61 May cause harm to the unborn child.  
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) : S36/37 Wear suitable protective clothing and gloves.  
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
 S53 Avoid exposure - obtain special instructions before use.  
 S35 This material and its container must be disposed of in a safe way.

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S57

Use appropriate containment to avoid environmental contamination.

Exceptional labelling of special preparations : To avoid risks to man and the environment, comply with the instructions for use.

Further information : Restricted to professional users.

**16. OTHER INFORMATION****Text of R phrases mentioned in Section 2**

R22	Harmful if swallowed.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
R51	Toxic to aquatic organisms.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53	May cause long-term adverse effects in the aquatic environment.
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.