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**SWITCH**

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**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY OR UNDERTAKING****Identification of the substance or preparation**

Tradename Switch  
Design Code A9219B

**Company identification**

Company Syngenta Crop Protection UK Ltd  
CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE  
Phone (01223) 883400  
Fax (01223) 882195  
Website www.syngenta-crop.co.uk  
Emergency Phone **+44 (0) 1484 538444 (24h)**

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**2. COMPOSITION / INFORMATION ON INGREDIENTS****Hazardous components**

CAS Number	Product Denomination	EC Number	Conc. (%w/w)	Hazard symbols	Risk phrases (R)
121552-61-2	cyprodinil	-	37.5	Xi, N	43, 50/53
131341-86-1	fludioxonil	-	25	N	50/53
25417-20-3	naphthalene sulphonic acid, dibutyl-,sodium salt	246-960-6	0 - 5	Xn	20/22, 36/38

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

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**3. HAZARDS IDENTIFICATION**

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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#### 4. FIRST AID MEASURES

**General advice:** Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.

**Inhalation:** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.

**Skin contact:** Take off all contaminated clothing immediately. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

**Ingestion:** If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.

**Medical advice:** There is no specific antidote available. Treat symptomatically.

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#### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:**

Extinguishing media - small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires: Use alcohol-resistant foam or water spray.

**Extinguishing media which must not be used for safety reasons:** Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards during fire fighting:** As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health.

**Special protective equipment for fire-fighters:** In the event of fire, wear self-contained breathing apparatus.

**Further information:** Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

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#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Refer to protective measures listed in sections 7 and 8. Avoid dust formation.

**Environmental precautions:** Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:** Pick up and arrange disposal without creating dust. Do not create a powder cloud by using a brush or compressed air. Clean contaminated surface thoroughly.

**Additional advice:** If the product contaminates rivers and lakes or drains inform respective authorities.

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## 7. HANDLING AND STORAGE

### HANDLING

**Advice on safe handling:** This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. For personal protection see section 8.

### STORAGE

**Requirements for storage areas and containers:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs.

**Other data:** Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	Exposure limit(s)	Value type	Source
cyprodinil	7 mg/m <sup>3</sup>	8 h TWA	SYNGENTA
fludioxonil	10 mg/m <sup>3</sup>	8 h TWA	SYNGENTA

### ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne dust is generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

## PERSONAL PROTECTIVE EQUIPMENT

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

**Protective measures:** The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

**Respiratory protection:** No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.

**Hand protection:** Chemical resistant gloves should be used. Gloves should be certified to an appropriate standard. Gloves should have a minimum breakthrough time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be changed when breakthrough is suspected.

Suitable material: nitrile rubber.

**Eye protection:** Eye protection is not usually required. Follow any site specific eye protection policies. Eye/face protection should be certified to EN 166.

**Skin and body protection:** No special protective equipment required. Select skin and body protection based on the physical job requirements.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Granules.
<b>Colour:</b>	Grey to brown.
<b>Odour:</b>	Weak
<b>pH:</b>	8 – 11 at 10 g/l
<b>Oxidising Properties:</b>	Not oxidising
<b>Explosive Properties:</b>	Not explosive
<b>Bulk Density:</b>	0.537 g/cm <sup>3</sup>
<b>Water solubility:</b>	Miscible
<b>Minimum ignition energy:</b>	< 1 J
<b>Dust explosion class :</b>	Class 1
<b>Flammability (solid, gas):</b>	Not highly flammable

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## 10. STABILITY AND REACTIVITY

**Hazardous decomposition products:** Combustion or thermal decomposition will evolve toxic and irritant vapours.

**Hazardous reactions:** None known. Hazardous polymerisation does not occur. Stable under normal conditions.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute Oral Toxicity LD50:</b>	> 5000 mg/kg (rat)
<b>Acute Dermal Toxicity LD50:</b>	> 2000 mg/kg (rat)
<b>Skin Irritation:</b>	Non irritant (rabbit) assessment according to 93/21/EC
<b>Eye Irritation:</b>	Non irritant (rabbit) assessment according to 93/21/EC
<b>Sensitisation:</b>	Not sensitising (guinea pig) assessment according to 93/21/EC
<b>Long term toxicity:</b>	Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

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## 12. ECOLOGICAL INFORMATION

### ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

**Bioaccumulation:** Cyprodinil and fludioxonil do not bioaccumulate.  
**Stability in water:** Cyprodinil is not persistent in water. Fludioxonil is stable in water.  
**Stability in soil:** Cyprodinil and fludioxonil are not persistent in soil.  
**Mobility:** Cyprodinil has low to slight mobility in soil. Fludioxonil has low to very high mobility in soil.

### ECOTOXICITY EFFECTS

<b>Toxicity to Fish LC50:</b>	3.1 mg/l ( <i>Salmo trutta</i> (trout), 96h)
<b>Toxicity to Algae ERC50:</b>	1.6 mg/l ( <i>Scenedesmus subspicatus</i> (green algae), 96h)
<b>Toxicity to Aquatic Invertebrates EC50:</b>	0.14 mg/l ( <i>Daphnia magna</i> (water flea), 48 h)

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## 13. DISPOSAL CONSIDERATIONS

**Product:** Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

**Contaminated packaging:** Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

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## 14. TRANSPORT INFORMATION

### Rail / Road / Sea / Air (RID / ADR / IMDG / IATA)

	Class	UN Number	Packaging Group
	9	3077	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., (CYPRODINIL 37.5% AND FLUDIOXONIL 25%)		
Marine pollutant:	Marine pollutant		

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## 15. REGULATORY INFORMATION

### EU-Classification

<b>Classifications/ Hazard symbols</b>	<b>N</b>	<b>DANGEROUS FOR THE ENVIRONMENT</b>
<b>Risk phrases (R)</b>	50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Safety phrases (S)</b>	2	Keep out of the reach of children.
	13	Keep away from food, drink and animal feeding stuffs.
	20/21	When using do not eat, drink or smoke.
	35	This material and its container must be disposed of in a safe way.
	57	Use appropriate containment to avoid environmental contamination.
<b>Special label</b>		To avoid risks to man and the environment, comply with the instructions for use.
<b>Exceptional labelling of special preparations:</b>		Contains cyprodinil. May cause an allergic reaction.

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## 16. OTHER INFORMATION

Based on original SDS dated 20.09.2004 version 6 (plus amendment to Section 8)  
Always read the label. Use pesticides safely.  
Product registration number: MAPP13185.

Text of R phrases mentioned in Section 2:

**R20/22** Harmful by inhalation and if swallowed.

**R36/38** Irritating to eyes and skin.

**R43** May cause sensitisation by skin contact.

**R50/53** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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