

## SWITCH 62.5 WG

Version 6

Revision Date 20.09.2004

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

#### PRODUCT INFORMATION

**Product name** : SWITCH 62.5 WG  
**Design Code** : A9219B  
**Use** : Fungicide  
**Company** : Syngenta Crop Protection AG  
 Postfach  
 CH-4002 Basel  
 Switzerland  
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**Telefax** : +41 61 323 12 12  
**Emergency telephone number** : +44 1484 538444



**Dangerous for the environment**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Chemical Name	CAS-No.	EC-No.	Symbol(s)	R-phrase(s)	Concentration
cyprodinil	121552-61-2		Xi, N	R43 R50/53	37.5 % W/W
fludioxonil	131341-86-1		N	R50/53	25 % W/W
naphthalenesulfonic acid, dibutyl-, sodium salt	25417-20-3	246-960-6	Xn	R20/22 R36/38	0 - 5 % W/W

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

### 3. Hazards identification

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

### 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 center 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.

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- 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.

**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  
alcohol-resistant foam  
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.

**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

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- 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 feedingstuffs.
- 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

- 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 are not usually required. Select gloves based on the physical job requirements.
- 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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : granules
- Colour** : grey to brown
- Odour** : weak
- pH** : 8 - 11  
at 10 g/l
- Flammability (solid, gas)** : not highly flammable

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<b>Dust explosion class</b>	: Class 1
<b>Minimum ignition energy</b>	: < 1 J
<b>Oxidizing properties</b>	: not oxidizing
<b>Explosive properties</b>	: Not explosive
<b>Density</b>	: 0.537 g/cm <sup>3</sup>
<b>Bulk density</b>	: 0.537 g/cm <sup>3</sup>
<b>Water solubility</b>	: Miscible

**10. STABILITY AND REACTIVITY**

<b>Hazardous decomposition products</b>	: Combustion or thermal decomposition will evolve toxic and irritant vapors.
<b>Hazardous reactions</b>	: None known. Hazardous polymerisation does not occur. Stable under normal conditions.

**11. TOXICOLOGICAL INFORMATION**

<b>Acute oral toxicity</b>	: LD50 rat, > 5,000 mg/kg
<b>Acute dermal toxicity</b>	: LD50 rat, > 2,000 mg/kg
<b>Skin irritation</b>	: rabbit: non irritant assessment according to 93/21/EEC
<b>Eye irritation</b>	: rabbit: non irritant assessment according to 93/21/EEC
<b>Sensitization</b>	: guinea pig not sensitizing assessment according to 93/21/EEC
<b>Long term toxicity</b>	Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

**12. ECOLOGICAL INFORMATION****ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)**

<b>Bioaccumulation</b>	: Cyprodinil does not bioaccumulate Fludioxonil does not bioaccumulate.
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- Stability in water** : Cyprodinil is not persistent in water.  
Fludioxonil is stable in water
- Stability in soil** : Cyprodinil is not persistent in soil  
Fludioxonil is not persistent in soil
- Mobility** : Cyprodinil has low to slight mobility in soil  
Fludioxonil has low to very high mobility in soil

**ECOTOXICITY EFFECTS**

- Toxicity to fish** : LC50 Salmo trutta (trout), 3.1 mg/l , 96 h
- Toxicity to aquatic invertebrates** : EC50 Daphnia magna (water flea), 0.14 mg/l , 48 h
- Toxicity to algae** : ERC50 Scenedesmus subspicatus (green algae), 1.6 mg/l , 72 h

**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.

**14. TRANSPORT INFORMATION****Land transport***ADR/ RID:*

UN-No: 3077  
Class: 9  
Danger Label Number : 9  
Packaging group III  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
( CYPRODINIL 37.5% AND FLUDIOXONIL 25% )

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### Sea transport

#### IMDG:

UN-No: 3077  
 Class: 9  
 Danger Label Number : 9  
 Packaging group: III  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 ( CYPRODINIL 37.5% AND FLUDIOXONIL 25% )

Marine pollutant : Marine pollutant

### Air transport

#### IATA-DGR

UN-No: 3077  
 Class: 9  
 Danger Label Number : 9  
 Packaging group: III  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
 ( CYPRODINIL 37.5% AND FLUDIOXONIL 25% )

## 15. REGULATORY INFORMATION

### Labelling according to EC Directives

<b>Symbol(s)</b>	: N	Dangerous for the environment
<b>R-phrase(s)</b>	: R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>S-phrase(s)</b>	: S 2 S13 S20/21 S35 S37	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. This material and its container must be disposed of in a safe way. Wear suitable gloves.
<b>Exceptional labelling of special preparations</b>	: Contains cyprodinil. May cause an allergic reaction To avoid risks to man and the environment, comply with the instructions for use.	

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**Note** : The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

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**16. OTHER INFORMATION****Further information**

Text of R phrases mentioned in Section 2:

<b>R20/22</b>	Harmful by inhalation and if swallowed.
<b>R36/38</b>	Irritating to eyes and skin.
<b>R43</b>	May cause sensitization by skin contact.
<b>R50/53</b>	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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