

SWITCH 62.5 WG

Version 9

Revision Date 09.12.2009

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

PRODUCT INFORMATION

Product name : SWITCH 62.5 WG
Design code : A9219B
Use : Fungicide
Company : Syngenta Crop Protection AG
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Switzerland
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**Dangerous for
the environment**

2. HAZARDS IDENTIFICATION

Causes eye irritation.
Very toxic to aquatic life with long lasting effects.
May form flammable dust-air mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	EC-No. (REACH Regis- tration Number)	Symbol(s)	R-phrases	Concentration
cyprodinil	121552-61-2		Xi, N	R43 R50/53	37.5 % W/W
fludioxonil	131341-86-1		N	R50/53	25 % W/W
sodium dibutyl- naphthalenesul- phonate	25417-20-3	246-960-6	Xn	R20/22 R36/38 R52/53	0 - 5 % W/W
kieselguhr	91053-39-3, 68855-54-9, 61790-53-2, 7631-86-9	293-303-4			10 - 15 % W/W

* Substances for which there are Community workplace exposure limits.
For the full text of the R-phrases mentioned in this Section, see Section 16.

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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 center or physician, or going for treatment.
- Inhalation** : Move the victim 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.

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
or
Water spray
- Extinguishing media which shall 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** : Fire will spread by burning with a visible flame.
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** : Wear full protective clothing and 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** : Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).
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.

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	Exposure limit(s)	Type of exposure limit	Source
cyprodinil	7 mg/m ³	8 h TWA	SYNGENTA
fludioxonil	10 mg/m ³	8 h TWA	SYNGENTA
kieselguhr	4 mg/m ³ 4 mg/m ³ 10 mg/m ³	8 h TWA 8 h TWA 8 h TWA	DFG SUVA ACGIH

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	3,000 ppm 1.2 mg/m ³ (Respirable dust)	IDLH 8 h TWA	NIOSH UK HSE
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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.
- 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

- Physical state** : solid
- Form** : granules
- Colour** : grey to brown
- Odour** : weak
- pH** : 8 - 11 at 10 g/l
- Flammability (solid, gas)** : not highly flammable
- Minimum ignition temperature** : 600 °C
- Dust explosion class** : Forms flammable dust clouds.
- Minimum ignition energy** : 0.03 - 0.1 J
- Oxidizing properties** : not oxidizing
- Explosive properties** : Not explosive
- Bulk density** : 0.537 g/cm³
- Solubility in other solvents** : not soluble
- Burning number** : 5 at 20 °C

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: 6 at 100 °C

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity** : LD50 male and female Rat, > 5,000 mg/kg
GHS-Classification
None
- Acute inhalation toxicity** : LC50 male and female Rat, > 2.51 mg/l, 4 h
GHS-Classification
None
- Acute dermal toxicity** : LD50 male and female Rat, > 2,000 mg/kg
GHS-Classification
None
None
- Skin irritation** : Rabbit: Non-irritating
GHS-Classification
None
- Eye irritation** : Rabbit: Non-irritating
GHS-Classification
Category 2B
- Sensitisation** : guinea pig: Not a skin sensitizer in animal tests.
GHS-Classification
None
- Long term toxicity**
cyprodinil : Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.
- fludioxonil : Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

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

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Biodegradability

fludioxonil : Fludioxonil is not readily biodegradable.

Stability in watercyprodinil : Degradation half life: ca. 10 d
Cyprodinil is not persistent in water.fludioxonil : Degradation half life: 450 - 700 d
Fludioxonil is stable in water.**Stability in soil**cyprodinil : Degradation half life : 0.1 - 2 d
Cyprodinil is not persistent in soil.fludioxonil : Degradation half life : 14 d
Fludioxonil is not persistent in soil.**Mobility**

cyprodinil : Cyprodinil has low to slight mobility in soil.

fludioxonil : Fludioxonil is immobile in soil.

Bioaccumulation

cyprodinil : Cyprodinil does not bioaccumulate.

fludioxonil : Fludioxonil does not bioaccumulate.

ECOTOXICITY EFFECTS**Toxicity to fish** : LC50 Oncorhynchus mykiss (rainbow trout), 3.1 mg/l , 96 h
GHS-Classification
Category 2**Toxicity to aquatic invertebrates** : EC50 Daphnia magna (Water flea), 0.14 mg/l , 48 h
GHS-Classification
Category 1**Toxicity to aquatic plants** : EbC50 Desmodesmus subspicatus (green algae), 0.6 mg/l , 72 h
GHS-Classification
Category 1
: ErC50 Desmodesmus subspicatus (green algae), 1.6 mg/l , 72 h
GHS-Classification
Category 2**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.

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Contaminated packaging : Empty remaining contents.
Triple rinse containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

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

UN-Number: 3077

Class: 9

Labels: 9

Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPRODINIL AND FLUDIOXONIL)

Environmentally hazardous: Environmentally hazardous

Sea transport*IMDG:*

UN-Number: 3077

Class: 9

Labels: 9

Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPRODINIL AND FLUDIOXONIL)

Marine pollutant : Marine pollutant

Air transport*IATA-DGR:*

UN/ID No.: UN 3077

Class: 9

Labels: 9

Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYPRODINIL AND FLUDIOXONIL)

15. REGULATORY INFORMATION**Labelling according to EC Directives**

Symbol(s) : N Dangerous for the environment

R-phrases(s) : R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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S-phrases(s)	:	S 2	Keep out of the reach of children.
	:	S13	Keep away from food, drink and animal feedingstuffs.
	:	S20/21	When using do not eat, drink or smoke.
	:	S35	This material and its container must be disposed of in a safe way.
	:	S57	Use appropriate container to avoid environmental contamination.

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

Special labelling of certain mixtures : Contains cyprodinil. May produce an allergic reaction
To avoid risks to man and the environment, comply with the instructions for use.

GHS-Labeling**Globally Harmonized System of Classification and Labelling of Chemicals (GHS)****Pictogram**

Signal word : Warning

Hazard statements : H320 Causes eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements	:	P102	Keep out of reach of children.
	:	P270	Do not eat, drink or smoke when using this product.
	:	P273	Avoid release to the environment.
	:	P280	Wear protective gloves/eye protection/face protection.
	:	P391	Collect spillage.

Remarks : Classified using all GHS hazard classes and categories. Where the GHS contains options, the most conservative option has been chosen. Regional or national implementations of GHS may not implement all hazard classes and categories.

Hazardous components which must be listed on the label:

16. OTHER INFORMATION**Further information**

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Text of R-phrases mentioned in Section 3:

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.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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