

PATRON 75 WP

Version 6

Revision Date 08.02.2006

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**PRODUCT INFORMATION**

Product name : PATRON 75 WP

Design Code : A6808A

Use : insecticide

Company : Syngenta Crop Protection AG
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2. COMPOSITION/INFORMATION ON INGREDIENTS**Hazardous components**

Chemical Name	CAS-No.	EC-No.	Symbol(s)	R-phrase(s)	Concentration
cyromazine	66215-27-8	266-257-8			75 % W/W
silica	112926-00-8	231-545-4			5 - 10 % W/W
sulfuric acid monododecyl ester sodium salt	151-21-3	205-788-1	Xi	R38 R41	1 - 5 % W/W
naphthalenesulfonic acids, polymers with formaldehyde and sulfonated phenol, sodium salts	67784-97-8		Xi	R36 R52/53	5 - 10 % W/W

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

3. Hazards identification

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
May form flammable dust-air mixture.

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.

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- 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.

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.

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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.

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
silicon dioxide, chemically prepared	4 mg/m ³	8 h TWA	SUVA
	10 mg/m ³	8 h TWA	ACGIH
	3,000 ppm	IDLH	NIOSH
	4 mg/m ³	8 h TWA	DFG
	6 mg/m ³	8 h TWA	UK HSE
	2.4 mg/m ³	8 h TWA	UK HSE
		Inhalable fraction respirable dust	
cyromazine	3 mg/m ³	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.

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 : powder

Colour : white to tan

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pH	: 6 - 10 at 1 % w/v
Flammability (solid, gas)	: not highly flammable
Dust explosion class	: Class 1
Minimum ignition energy	: < 0.5 kJ
Oxidizing properties	: not oxidizing
Explosive properties	: Not explosive
Bulk density	: 0.30 - 0.40 g/cm ³
Water solubility	: Miscible
Surface tension	: 52.4 mN/m at 20 °C
	: 64.4 mN/m at 20 °C

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 Rat, > 2,000 mg/kg
Acute inhalation toxicity	: LC50 Rat, > 2,000 mg/m ³ , 4 h
Acute dermal toxicity	: LD50 Rat, > 2,000 mg/kg
Skin irritation	: Rabbit: non irritant
Eye irritation	: Rabbit: non irritant
Sensitization	: guinea pig not sensitizing
Long term toxicity	Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

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

- Bioaccumulation** : Cyromazine does not bioaccumulate
- Stability in water** : Cyromazine is persistent in water.
- Stability in soil** : Cyromazine is not persistent in soil.
- Mobility** : Cyromazine has low to high mobility in soil

ECOTOXICITY EFFECTS

- Toxicity to fish** : LC50 *Oncorhynchus mykiss* (rainbow trout), > 100 mg/l , 96 h
- Toxicity to aquatic invertebrates** : EC50 *Daphnia magna* Straus, 90 mg/l , 48 h
- Toxicity to algae** : ERC50 *Selenastrum capricornutum* (green algae), 110 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:

Regulation: Not dangerous goods

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Sea transport*IMDG:*

Regulation: Not dangerous goods

Air transport*IATA-DGR*

Regulation: Not dangerous goods

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

R-phrase(s) : R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(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.

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

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:

R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R52/53	Harmful 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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