

Safety Data Sheet

release date 26-JUN-2001
replaces all previous editions

Trade Name Syngenta

POLYTRIN P 440 EC

1. Identification of the substance / preparation and of the company / undertaking

Identification of the substance or preparation

Trade Name Syngenta POLYTRIN P 440 EC
Design Code A6465A
AGI Code 76882

Company / undertaking identification

Company Syngenta Crop Protection AG
Postfach
CH-4002 Basel
Switzerland
Phone +41 61 323 11 11
Fax +41 61 323 12 12
Product Information Phone (office hours) +41 61 323 40 40
Emergency Phone (24h) +41 61 323 33 33
Emergency Information concerning
- transport see emergency phone number in the shipping documents
- storage see emergency phone number of local Syngenta organization

2. Composition / information on ingredients

Chemical characteristic

Formulation type	Emulsifiable concentrate		
Use	Insecticide		
Active ingredient(s)	40 % w/v	profenofos	CGA15324
	4 % w/v	cypermethrin	CGA55186

Hazardous Component(s)

CAS	Product Denomination	%	Hazard Symbol	Special Risks
1330-20-7	benzene, dimethyl-	47.16	Xn	10-20/21-38
41198-08-7	profenofos	37.28	Xn	20/21/22
78-83-1	1-propanol, 2-methyl-	1.40	Xi	10-37/38-41-67
52315-07-8	cypermethrin	3.73	N-Xn	20/21/22-36-43-50/53
70528-83-5	benzenesulfonic acid, dodecyl-, branched, calcium salts	2.49	C	20/21-34

Information to exposure limit values see section 8.

3. Hazards Identification

Health Hazards: Harmful if swallowed. Irritating to skin. May cause sensitization by skin contact. Risk of serious damage to eyes.

Environmental hazard in case of accident (Spillage/Leakage): Very toxic to aquatic organisms.

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4. First-Aid Measures

First-Aid Measures

General: Remove the affected person from the danger zone to a well-ventilated room or to fresh air, and protect from undercooling. IN CASE OF SUSPECTED POISONING: Immediately call a physician.

Eye Contact: Rinse eyes with clean water for several minutes and immediately call a physician.

Ingestion: Repeatedly administer medicinal charcoal in a large quantity of water. NOTE: Never give anything by mouth to an unconscious person. Do not induce vomiting. If medical assistance is not readily available, and poisoning symptoms are severe, vomiting should be induced by tickling the finger on the back of the patient's throat.

Skin Contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water.

Medical Instructions

Antidote: Cholinesterase inhibitor! Antidote: Atropine combined with oxime preparations such as TOXOGONIN under medical supervision.

General: Inject 2 to 4 mg atropine sulphate (for children 0.5 to 2 mg according to age) i.v. or i.m. every 5 to 10 minutes until signs of atropinisation occur. The patient must remain atropinised for a sufficient length of time (24 to 48 hours) to prevent subsequent poisoning due to delayed resorption.

Experiences Specific to Man: Respiratory distress. Eye pains. Unconsciousness. Vomiting. Heart complaints. Colic. Headache. Convulsions. Muscular twitching. Nervousness. Pinpoint pupils (miosis). Difficulty in swallowing. Feeling of weakness. Profuse sweating. Sweating. Speech disorders (slurred speech). Hypersalivation. Indisposition.

5. Fire-Fighting Measures

Combustibility: yes

Extinguishing media

Suitable Extinguishing Media: Dry chemical extinguisher, foam, carbon dioxide or waterspray (do not use direct jet of water).

Fire fighting

Special Hazards during Fire Fighting: Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.

Protective Equipment for Fire Fighting: Use self contained breathing apparatus. Wear protective equipment.

Swiss Fire Prevention Class: F2 L FU

6. Accidental Release Measures

Environmental Protection Measures following Accidents: Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g. by damming in with absorptive material. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers. Keep away from sources of ignition.

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7. Handling and Storage

Handling information

General: Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Keep away from sources of ignition. Take precautionary measures against static discharges (transfer operations: check grounding). May form explosive vapour-air mixtures. Do not eat, drink or smoke while working. In addition to the measures usually taken in chemical works like splashproof filling and measuring equipment (including vapour stripping), further personal protection measures may have to be implemented to avoid possible contact with the product.

Storage information

Special Instructions for Storage: Store the product in closed original containers. Protect from light and humidity. Storage depot protected against fire.

Storage Compatibility with other Products: Store separate from food and feed.

Storage Temperature

Max. Storage Temperature: 35 °C

Min. Storage Temperature: -10 °C

8. Exposure controls / Personal protection

Switzerland (xylene mixture of isomeres)

MAK (SUVA): 100 ppm; 435 mg/m³

STEL (SUVA): 200 ppm; 870 mg/m³

Notes: D; H; M

Personal protective equipment

In General: Change working clothes daily.

Breathing Protection: In case of heavy exposure, wear: Gas mask with universal filter.

Eye Protection: Goggles or face-shield

Hand Protection: Chemical-resistant gloves

Body Protection: Heavy duty cotton or synthetic fabric working clothes (e.g. overalls). Heavy-duty shoes or boots.

Precautionary measures after work: Wash thoroughly (shower, bathe, wash hair). Change clothing. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap or soda solution.

9. Physical and Chemical Properties

Form:	clear liquid	
Color:	light brown to brown	
Physical State:	liquid	
Flash-Point:	29 - 33 °C (Abel-Pensky c.c.)	AQ-27/1
Density:	1.06 - 1.08 g/cm ³ (20 °C)	IA-79
pH Value:	4.5 - 6.5 (1 %; Emulsion in water)	IA-105
Miscibility with water:	miscible	

10. Stability and Reactivity

Chemical Stability

Assessment: Stable under standard conditions.

Corrosiveness

Corrosiveness / Appropriate Material: tin-plate

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11. Toxicological Information

Acute Oral Toxicity

LD50: ca 800 mg/kg (rat)

Acute Dermal Toxicity

LD50: > 4000 mg/kg (rat)

Acute Inhalation Toxicity

LC50: > 5000 mg/m³ (rat; 4 h)

Acute Skin Irritation:

irritant (rabbit)

Acute Eye Irritation:

highly irritant (rabbit)

Skin Sensitization:

sensitizing

12. Ecological Information

Environmental hazard in case of accident (Spillage/Leakage): Very toxic to aquatic organisms.

13. Disposal Considerations

Disposal

Product Disposal: Pay attention to protective clothing and measures. Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc. Collect material in specially marked, tightly closing containers. Clean dirty areas with water and detergent. Put washing water in containers too, to avoid any contamination of surface and ground water, water supplies and drains. Hose down the area for a prolonged period. Heavily contaminated soil layers have to be dug out down to clean soil. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative and dispose of in an incinerator approved for chemicals.

Container Disposal: Dispose of empty containers in an incinerator approved for chemicals. Damaged containers: Place original containers in specially marked larger ones. Check possibilities of recycling large empty containers, drums and barrels.

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14. Transport Information

Special Information: Use unbreakable containers, make sure they cannot fall, and label in accordance with regulations.

Rail / Road (RID / ADR)	Class	Cipher	UN no.	Kemmler Index	CEFIC
	3	31C	1993	30	30G35

Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Additional Information	(XYLENES)

Sea (IMDG-Code)	Class	UN no.	Pack. Group	EMS	MFAG
	3.3	1993	III	3-06	310

Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Additional Information	(XYLENE AND CYPERMETHRIN 4%, MARINE POLLUTANT)
Marine pollutant	yes

Air (ICAO / IATA)	Class	UN no.	Pack. Group
	3	1993	III

Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Additional Information	(XYLENES)

Swiss POST: 3 (restricted in Switzerland, with special permission POST)

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15. Regulatory Information

EU-Classification

Labelling Requirement

required

Type of Classification

Self-Classification

Hazard Symbol

Xn

Harmful

Special Risks

10

Flammable.

22

Harmful if swallowed.

38

Irritating to skin.

41

Risk of serious damage to eyes.

43

May cause sensitization by skin contact.

Safety Advice

2

Keep out of the reach of children.

13

Keep away from food, drink and animal feedingstuffs.

20/21

When using do not eat, drink or smoke.

26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

28

After contact with skin, wash immediately with plenty of water and soap .

36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

46

If swallowed, seek medical advice immediately and show this container or label.

62

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

International

WHO Toxicity Classification

II

Moderately hazardous

Weight limit (Switzerland)

as prescribed by accident regulations

2000 kg

16. Other Information

The information contained herein is based on the present state of our knowledge as is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.