

# Safety Data Sheet

Trade Name Syngenta

ARTEA 330 EC

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

### Identification of the substance or preparation

Trade Name Syngenta ARTEA 330 EC  
 Design Code A10506A  
 AGI Code 102035

### 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) +44 1484 538 444**  
**Centre Antipoison à Rabat : 037 68 64 64**  
 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	Fungicide		
Active ingredient(s)	8 % w/v	cyproconazole	SAN619
	25 % w/v	propiconazole (ISO draft)	CGA64250

### Hazardous Component(s)

CAS	Name	% w/w	Hazard Symbol	Special Risks
94361-06-5	cyproconazole	7.8	N,Xn	22-50/53-63
60207-90-1	propiconazole (ISO draft)	24.4	N,Xn	22-43-50/53
26264-06-2	benzenesulfonic acid, dodecyl-, calcium salt	4 - 10	Xi	36/38
9004-98-2	poly(oxy-1,2-ethanediyl), alpha -9-octadecenyl-omega-hydroxy-, (Z)-	4 - 10	Xn	22-41
872-50-4	2-pyrrolidinone, 1-methyl-	5 - 20	Xi	36/38

Information to exposure limit values see section 8.

## 3. Hazards Identification

**Health Hazards:** Irritating to skin and eyes. Possible risk of harm to the unborn child.

**Environmental hazard in case of accident (Spillage/Leakage):** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### 4. First-Aid Measures

#### First-Aid Measures

**General:** In case of indisposition place the patient in a well-ventilated area and protect him from hypothermia. 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.

**Skin Contact:** Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water, including hair and under fingernails.

**Inhalation:** Immediately remove to fresh air.

#### Medical Instructions

**Antidote:** No specific antidote is known! Apply symptomatic therapy.

**Experiences Specific to Man:** No case of human poisoning is on record.

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### 5. Fire-Fighting Measures

**Combustibility:** This product is combustible at elevated temperatures.

#### 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.

**Hazardous Combustion Products:** carbon dioxide; carbon monoxide; nitrogen oxides; sulfur dioxide; hydrogen chloride;

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

**Swiss Fire Prevention Class:** F3 L CO

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### 6. Accidental Release Measures

**Environmental Protection Measures following Accidents:** Pay attention to protective clothing and safety measures. Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc. and dispose of in an incinerator approved for chemicals. Collect material in specially marked, tightly closing containers. Wash away the remainder with plenty of water and a wetting agent. 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.

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### 7. Handling and Storage

#### Handling information

**General:** Women of childbearing age should avoid handling this product. Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. 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 Compatibility with other Products:** Store separately from feed, food and stimulants. Store the product in closed original containers.

#### Storage Temperature

**Max. Storage Temperature:** 35 °C

**Min. Storage Temperature:** -10 °C

### 8. Exposure controls / Personal protection

#### Germany (1-methyl-2-pyrrolidone)

**MAK (DFG):** 20 ppm; 80 mg/m<sup>3</sup>

**Notes:** C; H

#### Switzerland (1-methyl-2-pyrrolidone)

**MAK (SUVA):** 20 ppm; 80 mg/m<sup>3</sup>

**STEL (SUVA):** 100 ppm; 400 mg/m<sup>3</sup>

**Notes:** C; H

#### Internal exposure limit: (cyproconazole)

**NIEL (Novartis internal exposure level):** 0.5 mg/m<sup>3</sup>

#### 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 impermeable working clothes (e.g. overalls). Rubber apron. 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.

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### 9. Physical and Chemical Properties

<b>Form:</b>	liquid	
<b>Color:</b>	yellow orange to dark brown	
<b>Physical State:</b>	liquid	
<b>Flash-Point:</b>	63 °C (1013 hPa; DIN EN 22719)	EEC A 9
<b>Oxidizing Properties:</b>	not oxidizing	
<b>Explosive Properties</b>		EEC A 14
<b>Assessment:</b>	not explosive	
<b>Shock Sensitivity:</b>	not shock sensitive	
<b>Density:</b>	1.01 - 1.05 g/cm <sup>3</sup> (20 °C)	OECD 109
<b>pH Value:</b>	4 - 8 (1 %; in deionised water)	CIPAC MT 75.2
<b>Surface Tension:</b>	31.6 mN/m (20.0 g/l; Emulsion in distilled water; 20 °C)	EEC A 5
<b>Surface Tension:</b>	33.7 mN/m (1.0 g/l; Emulsion in distilled water; 20 °C)	EEC A 5
<b>Miscibility with water:</b>	miscible (1 %; ca 23 °C)	
<b>Dynamic Viscosity:</b>	15.9 mPa.s (10 - 200 rps; 20 °C)	OECD 114
<b>Dynamic Viscosity:</b>	8.0 mPa.s (10 - 200 rps; 40 °C)	OECD 114

### 10. Stability and Reactivity

#### Chemical Stability

**Assessment:** Stable under standard conditions.

#### Sensitivity

**Thermal Sensitivity:** thermally not sensitive

### 11. Toxicological Information

<b>Acute Oral Toxicity</b>		OECD 401
<b>LD50:</b>	> 2000 mg/kg (rat)	
<b>Acute Dermal Toxicity</b>		OECD 402
<b>LD50:</b>	> 2000 mg/kg (rat)	
<b>Acute Inhalation Toxicity</b>		OECD 403
<b>LC50:</b>	> 5.17 mg/l (rat; 4 h)	
<b>Acute Skin Irritation:</b>	moderately irritant (rabbit)	OECD 404
<b>Acute Eye Irritation:</b>	moderately irritant (rabbit)	OECD 405
<b>Skin Sensitization:</b>	not sensitizing (guinea pig; Maximization test)	OECD 406
<b>Additional Toxicological Information:</b>	There are indications of developmental toxic effects from reproduction studies with cyproconazole.	

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### 12. Ecological Information

#### Acute Toxicity to Fish

**LC50:** ca 22 mg/l (Oncorhynchus mykiss (Rainbow trout); 96 h; Derived from active ingredient(s))

#### Growth Inhibition, Algae

**EC50:** ca 0.15 mg/l (Selenastrum capricornutum (green algae); 72 h; Derived from active ingredient(s))

#### Toxicity to Aquatic Invertebrates

**EC50:** ca 42 mg/l (Daphnia magna (water flea); 48 h; Derived from active ingredient(s))

### 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.

### 14. Transport Information

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

<b>Rail / Road (RID / ADR)</b>	Class	UN no.	Pack. Group	Kemmler Index	CEFIC
	9	3082	III	90	90G01
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.				
Additional Information	(PROPICONAZOLE AND CYPROCONAZOLE)				

<b>Sea (IMDG-Code)</b>	Class	UN no.	Pack. Group
	9	3082	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Additional Information	PROPICONAZOLE 25% AND CYPROCONAZOLE 8%)		
Marine pollutant	yes		

<b>Air (ICAO / IATA)</b>	Class	UN no.	Pack. Group
	9	3082	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.		
Additional Information	(PROPICONAZOLE AND CYPROCONAZOLE)		

**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**

N

Dangerous for the environment

Xn

Harmful

**Special Risks**

36/38

Irritating to eyes and skin.

50/53

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

**Safety Advice**

63

Possible risk of harm to the unborn child.

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.

36/37/39

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

60

This material and its container must be disposed of as hazardous waste.

61

Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Source of Hazard**

 N-methyl-2-pyrrolidone  
 cyproconazole  
 propiconazole

**International**
**WHO Toxicity Classification**

-

III: Product unlikely to present acute hazard in normal use

**Weight limit (Switzerland)**
**as prescribed by accident regulations**

200000 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.