

Safety Data Sheet

(according to European Community Legislation)

release date 17-JUN-2004
replaces all previous editions

Trade Name Syngenta

KRISMAT

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

Identification of the substance or preparation

Trade Name Syngenta KRISMAT
Design Code A12001A
AGI Code 124652

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**

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	Water dispersible granules		
Use	Herbicide		
Active ingredient(s)	73.15 % w/w	ametryn	G34162
	1.85 % w/w	trifloxysulfuron-sodium	CGA362622

Hazardous Component(s)

CAS	Name	% w/w	Hazard Symbol	Special Risks
25417-20-3	naphthalenesulfonic acid, dibutyl-, sodium salt	2 - 8	Xn	20/22-36/38
834-12-8	kaolin	5 - 10		
	ametryn	73	N,Xn	22-50/53

For information on exposure limit values see section 8.

3. Hazards Identification

Health Hazards: Harmful if swallowed. May cause sensitization by skin contact.

Environmental hazard in case of accident (Spillage/Leakage): Very toxic to algae. Toxic to fish. Harmful to daphniae.

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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 .

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.

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 fluoride;

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

Swiss Fire Prevention Class: F4 S CO

6. Accidental Release Measures

Environmental Protection Measures following Accidents: Pay attention to protective clothing and safety measures. Collect product in containers for safe disposal. Dampen solid material carefully to prevent it being blown away. 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: Avoid contact with skin, eyes and clothing. Avoid inhalation of dust. Do not eat, drink or smoke while working. In addition to the measures usually taken in chemical works like dustproof filling and measuring equipment (including dust extraction), 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. Avoid leaving any product leftovers on or at the side of containers.

Storage Compatibility with other Products: Store separately from feed, food and stimulants.

Storage Temperature

Max. Storage Temperature: 35 °C

Min. Storage Temperature: -10 °C

8. Exposure controls / Personal protection

Switzerland	(kaolin)	MAK (SUVA):	6 mg/m ³
		Notes:	F
USA	(kaolin)	TWA (ACGIH):	2 mg/m ³
		Notes:	A4

Personal protective equipment

In General: Change working clothes daily.

Breathing Protection: In case of heavy exposure, wear: Dust mask.

Eye Protection: Goggles

Hand Protection: Chemical-resistant gloves

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

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

Form:	granules	
Color:	light beige to brown	
Physical State:	solid	
Flammability:	not highly flammable (0.35 %)	EEC A 10
Flammability (contact with water) Assessment:	Based on the chemical structure impossible	
Pyrophoric Behaviour:	Based on our experience in this matter impossible	
Oxidizing Properties:	not oxidizing	EEC A 17
Explosive Properties Shock Sensitivity Test:	no detonation	
Explosive Properties Assessment:	not explosive	EEC A 14
Friction Sensitivity:	not friction sensitive	
Shock Sensitivity:	not shock sensitive	
Spontaneous Decomposition:	May be excluded due to the nature of the thermal decomposition.	
Bulk Density:	0.45 - 0.65 g/cm ³ (0)	CIPAC MT 159
pH Value:	8 - 12 (1 %; in deionised water)	CIPAC MT 75.2
Surface Tension:	42.6 mN/m (1.0 g/l; in distilled water; 20 °C)	EEC A 5
	28.3 mN/m (28 g/l; in distilled water; 20 °C)	EEC A 5

10. Stability and Reactivity

Chemical Stability

Assessment: Stable under standard conditions.

Sensitivity

Sensitivity to humidity: not sensitive to humidity

Air Sensitivity: not sensitive to air

Sensitivity to light: not sensitive to light

Sensitivity

Thermal Sensitivity: thermally not sensitive

11. Toxicological Information

Acute Oral Toxicity (rat)	LD50: > 2000 mg/kg	OECD 401
	Sex: male	
Acute Oral Toxicity (rat)	LD50: > 1500 < 1800 mg/kg	OECD 401
	Sex: female	
Acute Dermal Toxicity	LD50: > 2000 mg/kg (rat)	
Acute Inhalation Toxicity	LC50: > 2.59 mg/l (rat; 4 h)	EPA/FIFRA 81-3
Acute Skin Irritation:	non irritant (rabbit; assessment according to 93/21/EEC)	OECD 404
Acute Eye Irritation:	non irritant (rabbit; assessment according to 93/21/EEC)	OECD 405
Skin Sensitization:	sensitizing (guinea pig; assessment according to 93/21/EEC; Maximization test)	OECD 406

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12. Ecological Information

Acute Toxicity to Fish	LC50: 8.09 mg/l (Oncorhynchus mykiss (Rainbow trout); 96 h; Static conditions)	OECD 203
Growth Inhibition, Algae (Selenastrum capricornutum (green algae); 72 h)	EbC50: 0.0027 mg/l	OECD 201
Toxicity to Aquatic Invertebrates	ErC50: ca 0.004 mg/l EC50: 11.9 mg/l (Daphnia magna (water flea); 48 h; Static conditions)	OECD 202

13. Disposal Considerations

Disposal

Product Disposal: Pay attention to protective clothing and measures. Dampen solid material carefully to prevent it being blown away. Collect material in specially marked, tightly closing containers. Treat contaminated surfaces with water. Collect washings in containers, 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

Rail / Road (RID / ADR)	Class	UN no.	Pack. Group	Kemmler Index	CEPIC
	9	3077	III	90	90GM7-III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.				
Additional Information	(AMETRYN)				
Sea (IMDG-Code)	Class	UN no.	Pack. Group		
	9	3077	III		
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.				
Additional Information	(AMETRYN)				
Air (ICAO / IATA)	Class	UN no.	Pack. Group		
	9	3077	III		
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.				
Additional Information	(AMETRYN)				

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	22	Harmful if swallowed.
	43	May cause sensitisation 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.
	24	Avoid contact with skin.
	37	Wear suitable gloves.
	46	If swallowed, seek medical advice immediately and show this container or label.
Source of Hazard		ametryn
International		
WHO Toxicity Classification	III	Slightly 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.