

Safety Data Sheet

release date 02-JUL-2001
replaces all previous editions

Trade Name Syngenta

TERIDOX 500 EC

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

Identification of the substance or preparation

Trade Name Syngenta TERIDOX 500 EC
Design Code A5089F
AGI Code 160462

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	Herbicide			
Active ingredient(s)	50	% w/v	dimethachlor	CGA17020
Hazardous Component(s)				
CAS	Product Denomination	%	Hazard Symbol	Special Risks
50563-36-5	dimethachlor	48.5	N-Xn	22-43-50/53
108-94-1	cyclohexanone	15 - 25	Xn	10-20
26264-06-2	benzenesulfonic acid, dodecyl-, calcium salt	1 - 5	Xi	36/38
64742-94-5	solvent naphtha (petroleum), highly arom.	20 - 30	Xn	65
78-83-1	1-propanol, 2-methyl-	< 1	Xi	10-37/38-41-67

Information to exposure limit values see section 8.

3. Hazards Identification

Health Hazards: Harmful: may cause lung damage if swallowed. Irritating to skin. May cause sensitization by skin contact.

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: 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. If swallowed take to a hospital immediately.

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.

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. Evacuate endangered area, close off area. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably. Keep containers cool by spraying with water if exposed to fire.

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

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

Swiss Fire Prevention Class: F3 L FU

6. Accidental Release Measures

Environmental Protection Measures following Accidents: Pay attention to protective clothing and safety measures. 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. 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. 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 separately from feed, food and stimulants.

Storage Temperature

Max. Storage Temperature: 35 °C

Min. Storage Temperature: 10 °C

8. Exposure controls / Personal protection

Germany (cyclohexanone)

MAK (DFG): 20 ppm; 80 mg/m³

Notes: C; H

Germany (isobutanol)

MAK (DFG): 100 ppm; 310 mg/m³

Notes: C

Switzerland (cyclohexanone)

MAK (SUVA): 100 mg/m³; 25 ppm

STEL (SUVA): 200 mg/m³; 50 ppm

Notes: C; H

Switzerland (isobutanol)

MAK (SUVA): 150 mg/m³; 50 ppm

STEL (SUVA): 100 ppm; 300 mg/m³

Notes: C

USA (cyclohexanone)

TWA (ACGIH): 100 mg/m³; 25 ppm

IDLH (NIOSH): 700 ppm

Notes: H; A4

USA (isobutanol)

TWA (ACGIH): 152 mg/m³; 50 ppm

IDLH (NIOSH): 1600 ppm

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.

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9. Physical and Chemical Properties

Form:	liquid	
Color:	yellow to brown	
Physical State:	liquid	
Solidification Point:	< 3 °C	
Boiling Point/Range		
Boiling Point:	> 125 °C	
Flash-Point:	60 °C (1013 hPa; DIN EN 22719)	EEC A 9
Oxidizing Properties:	not oxidizing	MANUAL UN 1995
Explosive Properties		EEC A 14
Assessment:	not explosive	
Shock Sensitivity:	not shock sensitive	
Density:	1.03 - 1.07 g/cm ³ (20 °C)	OECD 109
Solubility in water		
Assessment:	not soluble	
pH Value:	4 - 8 (1 %; in deionised water)	CIPAC MT 75.2
Partition Coefficient (log):	not applicable	
Surface Tension:	41.9 mN/m (1.0 g/l; in distilled water; 20 °C)	EEC A 5
Surface Tension:	36.2 mN/m (5.0 g/l; in distilled water; 20 °C)	EEC A 5
Surface Tension:	33.8 mN/m (15.0 g/l; in distilled water; 20 °C)	EEC A 5
Surface Tension:	36.5 mN/m (as is; 25 °C)	EEC A 5
Miscibility with water:	miscible	
Dynamic Viscosity:	15.1 mPa.s (10 - 200 rps; 20 °C)	OECD 114
Dynamic Viscosity:	7.53 mPa.s (10 - 200 rps; 40 °C)	OECD 114

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

Corrosiveness

Corrosiveness / Appropriate Material: tin-plate

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11. Toxicological Information

Acute Oral Toxicity		OECD 401
LD50:	> 2000 mg/kg (rat)	
Acute Dermal Toxicity		OECD 402
LD50:	> 4000 mg/kg (rat)	
Acute Skin Irritation:	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; Buehler test)	OECD 406

12. Ecological Information

Acute Toxicity to Fish		OECD 203
LC50:	9.5 mg/l (Oncorhynchus mykiss (Rainbow trout); 96 h)	
Growth Inhibition, Algae		OECD 201
ErC50:	0.024 mg/l (Selenastrum capricornutum (green algae); 72 h)	
Toxicity to Aquatic Invertebrates		OECD 202
EC50:	18.1 mg/l (Daphnia magna Straus; 48 h; Static conditions)	

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	(CYCLOHEXANONE)

Sea (IMDG-Code)	Class	UN no.	Pack. Group	EMS	MFAG
	3	1993	III	3-06	305

Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Additional Information	(CYCLOHEXANONE AND SOLVENT NAPHTHA)
Marine pollutant	yes

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

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

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

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15. Regulatory Information

EU-Classification

Labelling Requirement

Type of Classification

Hazard Symbol

Special Risks

Safety Advice

Source of Hazard

International

WHO Toxicity Classification

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

		required
		Self-Classification
	N	Dangerous for the environment
	Xn	Harmful
	38	Irritating to skin.
	43	May cause sensitization by skin contact.
	50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	65	Harmful: may cause lung damage if swallowed.
	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.
	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.
		solvent naphtha (petroleum), heavy aromatic dimethachlor
	III	Slightly hazardous
		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.