

Safety data sheet

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BASF Safety data sheet according to 91/155/EEC

Date / Revised: 13.06.2005

Product: **ABATE 500E**

Version: 3.0

317 09 I

(30150911/SDS_CPA_EU/EN)

Date of print 27.06.2005

1. Substance/preparation and company identification

ABATE 500E

Company:

BASF Aktiengesellschaft

Unternehmensbereich Pflanzenschutz

67056 Ludwigshafen, Deutschland

Telephone: +49-621-60-79321/ 79145

Telefax number: +49-621-60-79519

E-mail address: Produktinformation-Pflanzenschutz@basf-ag.deEmergency information:

Fire brigade BASF Ludwigshafen

Telephone: +49-621-60-43333

Telefax number: +49-621-60-92664

2. Composition/information on ingredients

Chemical nature

crop protection product, insecticide, emulsion concentrate (EC)

Hazardous ingredients

| temephos

Content (W/W): 46.4 %

CAS Number: 3383-96-8

EC-Number: 222-191-1

Hazard symbol(s): Xn, N

R-phrases: 20, 50/53

solvent naphtha

Content (W/W): $\geq 43.3\%$ - $\leq 47.9\%$

CAS Number: 64742-94-5

EC-Number: 265-198-5

Hazard symbol(s): Xn, N

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R-phrases: 40, 65, 66, 67, 51/53

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

3. Hazard identification

Limited evidence of a carcinogenic effect.
Harmful in contact with skin.
Harmful: may cause lung damage if swallowed.
Repeated exposure may cause skin dryness or cracking.
Vapours may cause drowsiness and dizziness.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First-aid measures

General advice:

Avoid contact with the skin, eyes and clothing. Remove contaminated clothing. If difficulties occur: Obtain medical attention. Show container, label and/or safety data sheet to physician.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. If irritation develops, seek medical attention.

On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

Note to physician:

Symptoms: inhibition of cholinesterase

Treatment: Treat according to symptoms (decontamination, vital function), administer atropine for cholinesterase inhibition.

5. Fire-fighting measures

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry extinguishing media

Specific hazards:

carbon monoxide, nitrogen oxides, sulfur oxides, phosphoroxide (e.g. phosphorpentoxide)

The substances/groups of substances mentioned can be released in case of fire.

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Remove contaminated clothes, undergarments and shoes immediately.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.

Cleaning operations should be carried out only while wearing breathing apparatus. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Incinerate or take to a special waste disposal site in accordance with local authority regulations.

7. Handling and storage

Handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy. Vapours may form ignitable mixture with air. The product is combustible.

Storage

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect against moisture. Protect from direct sunlight.

Storage stability:

Storage duration: 24 Months

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Protect from temperatures above: 40 °C
Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection:

Respiratory protection in case of vapour/aerosol release. Gas filter EN141 Type A for gases/vapours of organic compounds (boiling point >65 °C). Wear respiratory protection if ventilation is inadequate.

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), polyvinylchloride (0.7 mm) and other

Eye protection:

Tightly fitting safety goggles (splash goggles) (EN 166)

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).

General safety and hygiene measures:

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Avoid contact with the skin, eyes and clothing. Wearing of closed work clothing is recommended. Take off immediately all contaminated clothing. Store work clothing separately. Keep away from food, drink and animal feeding stuffs. No eating, drinking, smoking or tobacco use at the place of work. Hands and/or face should be washed before breaks and at the end of the shift.

9. Physical and chemical properties

Form: liquid
Colour: amber
Odour: of mercaptans

pH value: 5 - 5.5
(54 g/l, 20 °C)

Information on: solvent naphtha

Flash point: > 62 °C

Information on: solvent naphtha

Lower explosion limit: 0.6 %(V)

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Density: 1.078 g/cm³
(20 °C)

Solubility in water: emulsifiable

10. Stability and reactivity

Conditions to avoid:
60 °C

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:
strong alkalis, strong oxidizing agents

Hazardous reactions:
No hazardous reactions if stored and handled as prescribed/indicated.

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

LD50/oral/rat: 3,506 mg/kg

Information on: temephos
LC50/by inhalation/rat: 4.79 mg/l / 4 h

LD50/dermal/rat/male/female: 1,855 mg/kg

Primary skin irritation/rabbit: moderately irritating

Primary irritations of the mucous membrane/rabbit: moderately irritating

Information on: temephos
Sensitization/guinea pig: Skin sensitizing effects were not observed in animal studies.

Additional information:

Misuse can be harmful to health.

12. Ecological information

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Ecotoxicity

| *Information on: temephos*
| *Toxicity to fish:*
Oncorhynchus mykiss/LC50 (96 h): 9.6 mg/l

| *Information on: temephos*
| *Aquatic invertebrates:*
| *Daphnia magna/EC50 (48 h): 0,011 ppb*
| *The product has not been tested. The statement has been derived from products of a similar*
structure and composition.

Persistence and degradability

| Elimination information
| *Information on: temephos*
| *Evaluation:* *Not readily biodegradable (by OECD criteria).*

| *Information on: solvent naphtha*
Evaluation: *Not readily biodegradable (by OECD criteria).*

Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control. No data available for the preparation.
The ecological data given are those of the active ingredient.

13. Disposal considerations

Must be dumped or incinerated in accordance with local regulations.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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14. Transport information

Land transport

ADR : Class 9
 Packaging group III
 UN-number 3082
 Designation of goods ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE, LIQUID, N.O.S.
 (Contains: TEMEPHOS 47%,
 SOLVENT NAPHTHA)

RID : Class 9
 Packaging group III
 UN-number 3082
 Designation of goods ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE, LIQUID, N.O.S.
 (Contains: TEMEPHOS 47%,
 SOLVENT NAPHTHA)

Inland waterway transport

ADNR : Class 9
 Packaging group III
 UN-number 3082
 Designation of goods ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE, LIQUID, N.O.S.
 (Contains: TEMEPHOS 47%,
 SOLVENT NAPHTHA)

Sea transport

IMDG/GGVSee : Class 9
 Packaging group III
 UN-number 3082
 Marine pollutant YES
 Exact technical name ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE, LIQUID, N.O.S. (contains
 TEMEPHOS 47%, SOLVENT
 NAPHTHA)

Air transport

ICAO/IATA : Class 9
 Packaging group III
 UN-number 3082
 Exact technical name ENVIRONMENTALLY HAZARDOUS
 SUBSTANCE, LIQUID, N.O.S. (contains
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 NAPHTHA)

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15. Regulatory information

Regulations of the European union (Labelling) / National legislation/Regulations

EEC Directives:

Hazard symbol(s)

Xn	Harmful.
N	Dangerous for the environment.

R-phrase(s)

R40	Limited evidence of a carcinogenic effect.
R21	Harmful in contact with skin.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)

S2	Keep out of the reach of children.
S13	Keep away from food, drink and animal feeding stuffs.
S20/21	When using do not eat, drink or smoke.
S35	This material and its container must be disposed of in a safe way.
S36/37	Wear suitable protective clothing and gloves.
S57	Use appropriate container to avoid environmental contamination.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

| Hazard determinant component(s) for labelling: TEMEPHOS, SOLVENT NAPHTHA

Other regulations

For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)

16. Other information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 2:

Xn	Harmful.
N	Dangerous for the environment.
20	Harmful by inhalation.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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40	Limited evidence of a carcinogenic effect.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.