

**SUPERTOX**Version 2 / GB
102000001997

1/8

Revision Date: 10.03.2008

Print Date: 11.07.2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name SUPERTOX
Product code (UVP) 05928397
Usage Herbicide
Company Bayer Environmental Science
230 Cambridge Science Park
Milton Road
Cambridge
Cambridgeshire CB4 0WB
Great Britain

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Responsible Department Email: ukinfo@bayercropscience.com

Emergency telephone number 0800-220876 (UK 24 hr)
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2. HAZARDS IDENTIFICATION**Risk advice to man and the environment**

Harmful if swallowed.
Risk of serious damage to eyes.
May cause sensitization by skin contact.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Soluble concentrate (SL)
CMPP-P/2,4-D 95:93.5 g/l

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Mecoprop-P-diethanolamine salt	16484-77-8 240-539-0	Xn, N	R22, R41, R51/53	13.00
2,4-D diethanolamine salt	5742-19-8 227-256-8	Xn, N	R22, R41, R43, R51/53	12.80
Diethanolamine	111-42-2 203-868-0	Xn	R22, R38, R41, R48/22	> 1.00 - < 5.00

For the full text of the R phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES



SUPERTOXY

Version 2 / GB
102000001997

2/8

Revision Date: 10.03.2008

Print Date: 11.07.2008

General advice

Remove contaminated clothing immediately and dispose of safely.

Inhalation

Move to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.

Skin contact

Wash off thoroughly with plenty of water and soap, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Ingestion

Do NOT induce vomiting. Induce vomiting only, if: 1. patient is fully conscious, 2. medical aid is not readily available, 3. a significant amount (more than a mouthful) has been ingested and 4. time since ingestion is less than 1 hour. (Vomit should not get into the respiratory tract.) Rinse mouth. Keep patient warm and at rest.

Notes to Physician

Symptoms

Local:, The product causes irritation of eyes, skin and mucous membranes.

Symptoms

Systemic:, mild acidosis, tachycardia, Irregular cardiac activity, low blood pressure, Circulatory collapse, cough, Shortness of breath, Vomiting, Diarrhoea, Abdominal pain, rhabdomyolysis, Nausea, somnolence, Coma, Fever, Convulsions

Risks

Kidney injury may occur.

Ingestion may cause liver damage.

Treatment

Local treatment:

Initial treatment: symptomatic.

Treatment

Systemic treatment:

In the event of a mouthful or more being ingested, the following measures should be considered:

Gastric lavage with charcoal, if necessary further treatment.

Observe specific parameters: blood pressure, levels of 2,4-D in plasma and urine, pH in urine.

Observe specific parameters: blood pressure, levels of mecoprop in plasma and urine, pH in urine.

Elimination by dialysis (forced alkaline diuresis).

There is no specific antidote.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which should not be used for safety reasons

High volume water jet

Specific hazards during fire fighting



SUPERTOXX

Version 2 / GB
102000001997

3/8

Revision Date: 10.03.2008

Print Date: 11.07.2008

Dangerous gases are evolved in the event of a fire.

Special protective equipment for fire-fighters

In the event of fire and/or explosion do not breathe fumes.

In the event of fire, wear self-contained breathing apparatus.

Further information

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.

Whenever possible, contain fire-fighting water by diking area with sand or earth.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Keep people away from and upwind of spill/leak.

Avoid contact with spilled product or contaminated surfaces.

When dealing with a spillage do not eat, drink or smoke.

Environmental Precautions

Do not allow to get into surface water, drains and ground water.

If spillage enters drains leading to sewage works inform local water company immediately.

If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

Methods for Cleaning Up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Keep in suitable, closed containers for disposal.

Clean floors and contaminated objects with plenty of water.

Additional Advice

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

Check also for any local site procedures.

7. HANDLING AND STORAGE

Handling

Advice on safe handling

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.

Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

No special precautions required.

Storage

Requirements for storage areas and containers

Store in a place accessible by authorized persons only.

Keep away from direct sunlight.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Protect from freezing.

Storage stability

Other data

Storage temperature should ideally lie between 0 and 40 °C, however, storage for two weeks at 54 °C has shown no adverse



SUPERTOXY

Version 2 / GB
102000001997

4/8

Revision Date: 10.03.2008

Print Date: 11.07.2008

effects regarding product safety or stability.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory Protection	No personal respiratory protective equipment normally required. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.
Hand Protection	Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.
Eye protection	Wear goggles conforming to EN166 (Field of Use 5 or equivalent).
Skin and body protection	Wear standard coverall and type 3 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.
Hygiene measures	When using, do not eat, drink or smoke. Remove soiled clothing immediately and clean thoroughly before using again. Wash hands immediately after work, if necessary take a shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Colour	orange to brown
Odour	characteristic

Safety data

pH	8.0 - 9.0 Determined in the undiluted form.
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Density	approx. 1.077 g/cm ³ at 20 °C
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Water solubility	miscible
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**SUPERTOX**Version 2 / GB
10200001997

5/8

Revision Date: 10.03.2008

Print Date: 11.07.2008

10. STABILITY AND REACTIVITY

Conditions to Avoid	Extremes of temperature and direct sunlight.
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat) > 200 - < 2,000 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 20 mg/l Exposure time: 4 h
Acute Dermal Toxicity	LD50 (rat) > 2,000 mg/kg
Skin Irritation	No skin irritation. (rabbit)
Eye Irritation	Severe eye irritation. (rabbit)
Sensitization	sensitizing (guinea pig)

Further information

The above values are calculated as prescribed by the "Conventional Method" according to 1999/45/EC.

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to Fish	LC50 (Lepomis macrochirus (Bluegill sunfish)) > 100 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient mecoprop.
Toxicity to Fish	LC50 (Rainbow trout (Oncorhynchus mykiss)) > 100 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient 2,4-D.
Toxicity to daphnia	EC50 (Daphnia) > 100 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient mecoprop.
Toxicity to algae	EC50 (Pseudokirchneriella subcapitata) > 270 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient mecoprop.
Toxicity to algae	EC50 (Selenastrum capricornutum) 33.2 mg/l Exposure time: 120 h The value mentioned relates to the active ingredient 2,4-D.

**SUPERTOX**Version 2 / GB
102000001997

6/8

Revision Date: 10.03.2008

Print Date: 11.07.2008

Toxicity to algae	EC50 (Lemna minor) 60 mg/l Exposure time: 336 h The value mentioned relates to the active ingredient mecoprop.
Toxicity to algae	EC50 (Lemna gibba (duckweed)) 0.58 mg/l Exposure time: 336 h The value mentioned relates to the active ingredient 2,4-D.

13. DISPOSAL CONSIDERATIONS**Product**

In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

Contaminated packaging

Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using an integrated pressure rinsing device, or, by manually rinsing three times.

Add washings to sprayer at time of filling.

Dispose of empty and cleaned packaging safely.

Large containers (> 25 l or > 25 kg) should not be rinsed or re-used for any other purpose.

Return large containers to supplier.

Follow advice on product label and/or leaflet.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION**ADR/RID/ADNR**

UN-Number	3082
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MECOPROP-P-DIETHANOLAMINE SOLUTION)

IMDG

UN-Number	3082
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MECOPROP-P-DIETHANOLAMINE SOLUTION)

IATA

UN-Number	3082
Labels	9
Packaging group	III



SUPERTOX

Version 2 / GB
102000001997

7/8

Revision Date: 10.03.2008

Print Date: 11.07.2008

Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MECOPROP-P-DIETHANOLAMINE SOLUTION)
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UK 'Carriage' Regulations

UN-Number	3082
Labels	9
Packaging group	III
Hazard no.	90
Emergency action code	3Z
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MECOPROP-P-DIETHANOLAMINE SOLUTION)

15. REGULATORY INFORMATION

This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.

Classification:

Hazard warning labelling compulsory

Hazardous components which must be listed on the label:

- Mecoprop
- 2,4-D

Symbol(s)

Xn	Harmful
N	Dangerous for the environment

R-phrases(s)

R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S24	Avoid contact with skin.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35	This material and its container must be disposed of in a safe way.
S37/39	Wear suitable gloves and eye/face protection.
S57	Use appropriate container to avoid environmental contamination.

CLASSIFICATION ACCORDING TO SPECIFIC UK REGULATIONS:

The labelling information below is that which has been approved under 'The Control of Pesticides Regulations 1986' and/or 'Part III of the Food and Environment Protection Act 1985' and/or 'Plant Protection Product Regulations 1999' and any subsequent amendments and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this 'Safety Data Sheet'.

Symbol(s)

Xn	Harmful
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SUPERTOX

Version 2 / GB
10200001997

8/8
Revision Date: 10.03.2008
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R-phrase(s)	
R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)	
S24	Avoid contact with skin.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S35	This material and its container must be disposed of in a safe way.
S37/39	Wear suitable gloves and eye/face protection.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.

Further information

WHO-classification: II (Moderately hazardous)

16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 3:

R22	Harmful if swallowed.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.