

**MESUROL SC500 1X200L DRM WW**Version 2 / EU
1020000068711/7
Revision Date: 01.07.2009
Print Date: 08.02.2010**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name MESUROL SC500 1X200L DRM WW
Product code (UVP) 04212746
Usage Insecticide
Company Bayer CropScience AG
Alfred-Nobel-Straße 50
40789 Monheim am Rhein
Germany

Telefax +49(0)2173-38-7394
Responsible Department Material and Transport Safety Management
+49(0)2173-38-3409/3189 (during business hours only)
Email: INFO.EHS@bayercropscience.com

Emergency telephone number +49(0)2133-51-4233 (Sicherheitszentrale Dormagen, Bayer AG)

2. HAZARDS IDENTIFICATION**Risk advice to man and the environment**

|| Harmful by inhalation.
|| Toxic if swallowed.
|| Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Suspension concentrate (=flowable concentrate)(SC)
Methiocarb 500 g/l

Hazardous components

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Methiocarb	2032-65-7 217-991-2	T, N	R25, R50/53	43,90
Citric acid	77-92-9 201-069-1	Xi	R36	> 1,00 - < 20,00
Glycerine	56-81-5 200-289-5			> 1,00

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

4. FIRST AID MEASURES**General advice**

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).



MESUROL SC500 1X200L DRM WW

Version 2 / EU
102000006871

2/7
Revision Date: 01.07.2009
Print Date: 08.02.2010

Inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products. Give oxygen or artificial respiration if needed. Call a physician or poison control center immediately.

Skin contact

Wash off with soap and water. Take off contaminated clothing and shoes immediately. Call a physician or poison control center immediately.

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

Rinse mouth. 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.) Call a physician or poison control center immediately.

Notes to Physician

Symptoms

Temporary blurred vision due to contraction of the pupils (miosis) following contact with the eyes., bradycardia, low blood pressure, Salivation, bronchial hypersecretion, Vomiting, Diarrhoea, sweating, Muscular fasciculation, spasm, breathing difficulties, respiratory paralysis, Somnolence, Coma, respiratory failure, hypothermia, Convulsions, Nausea

Risks

This product contains a cholinesterase inhibitor carbamate.

Treatment

Monitor: respiratory, cardiac and central nervous system.

Monitor: blood picture.

Monitor: red blood cell and plasma cholinesterase.

ECG - monitoring (Electrocardiogram).

Give oxygen or artificial respiration if needed.

Keep respiratory tract clear.

In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

The following antidote is generally accepted: atropine.

Before antidote is administered, either clear symptoms of poisoning have to be present or the cholinesterase activity is inhibited to below 30% of normal.

In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens.

Contraindications: oximes (pralidoxime, obidoxime).

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray

Carbon dioxide (CO₂)

Foam

Sand

Specific hazards during fire fighting

In the event of fire the following may be released:


MESUROL SC500 1X200L DRM WW

Version 2 / EU
102000006871

3/7
Revision Date: 01.07.2009
Print Date: 08.02.2010

Hydrogen cyanide (hydrocyanic acid)
Carbon monoxide (CO)
Methyl isocyanate
Sulphur oxides
Nitrogen oxides (NO_x)

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

Contain the spread of the fire-fighting media.
Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES
Personal Precautions

Avoid contact with spilled product or contaminated surfaces.
Use personal protective equipment.

Environmental Precautions

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

Methods for cleaning up

Clean contaminated floors and objects thoroughly, observing environmental regulations.
Keep in suitable, closed containers for disposal.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Additional Advice

Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE
Handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Storage

Requirements for storage areas and containers

Store in original container.

Store in a place accessible by authorized persons only.

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

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Temperature tolerance min.
 -10 °C

Suitable materials

HDPE (high density polyethylene)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**MESUROL SC500 1X200L DRM WW**Version 2 / EU
1020000068714/7
Revision Date: 01.07.2009
Print Date: 08.02.2010**Components with workplace control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Methiocarb	2032-65-7	0,42 mg/m ³		OES BCS*

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

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 6 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. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

Hygiene measures

Avoid contact with skin, eyes and clothing.
Keep working clothes separately.
Wash hands immediately after work, if necessary take a shower.
Remove soiled clothing immediately and clean thoroughly before using again.
Garments that cannot be cleaned must be destroyed (burnt).

Protective measures

If product is handled while not enclosed, and if contact may occur:
Complete suit protecting against chemicals

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form liquid, suspension
Colour white
Odour weak, characteristic

Safety data

**MESUROL SC500 1X200L DRM WW**Version 2 / EU
1020000068715/7
Revision Date: 01.07.2009
Print Date: 08.02.2010

pH	4,0 - 5,2 at 100 % (20 °C)
Flash point	> 100 °C No flash point - Determination conducted up to the boiling point.
Ignition temperature	430 °C
Density	approx. 1,14 g/cm ³ at 20 °C
Water solubility	suspensive
Oxidizing properties	No oxidizing properties
Explosivity	Not explosive. 92/69/EEC, A.14 / OECD 113

10. STABILITY AND REACTIVITY

Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions.
---------------------	--

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat) 200 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 1,571 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol.
Acute Dermal Toxicity	LD50 (rat) > 2.000 mg/kg
Skin Irritation	No skin irritation. (rabbit)
Eye Irritation	No eye irritation. (rabbit)
Sensitization	Non-sensitizing. (mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to Fish	LC50 (Lepomis macrochirus (Bluegill sunfish)) 0,65 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient.
Toxicity to daphnia	EC50 (Water flea (Daphnia magna)) 0,0077 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient.

**MESUROL SC500 1X200L DRM WW**Version 2 / EU
1020000068716/7
Revision Date: 01.07.2009
Print Date: 08.02.2010

Toxicity to algae IC50 (Desmodesmus subspicatus) 2,2 mg/l
Growth rate; Exposure time: 72 h
The value mentioned relates to the active ingredient.

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.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

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

UN-Number	2992
Labels	6.1
Packaging group	II
Hazard no.	60
Description of the goods	CARBAMATE PESTICIDE, LIQUID, TOXIC (METHIOCARB SOLUTION)
Tunnel Code	D/E

This classification is in principle not valid for carriage by tank vessel on inland waterways.
Please refer to the manufacturer for further information.

IMDG

UN-Number	2992
Labels	6.1
Packaging group	II
EmS	F-A , S-A
Marine pollutant	Marine pollutant
Description of the goods	CARBAMATE PESTICIDE, LIQUID, TOXIC (METHIOCARB SOLUTION)

IATA

UN-Number	2992
Labels	6.1
Packaging group	II
Description of the goods	CARBAMATE PESTICIDE, LIQUID, TOXIC (METHIOCARB SOLUTION)

15. REGULATORY INFORMATION

Classification and labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.

Classification:

Hazard warning labelling compulsory

**MESUROL SC500 1X200L DRM WW**Version 2 / EU
1020000068717/7
Revision Date: 01.07.2009
Print Date: 08.02.2010

Hazardous components which must be listed on the label:

- Methiocarb

Symbol(s)

|||T
|||NToxic
Dangerous for the environment

R-phrases(s)

|||R20
|||R25
|||R50/53Harmful by inhalation.
Toxic if swallowed.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

|||S35
|||S37
|||S45
|||S57This material and its container must be disposed of in a safe way.
Wear suitable gloves.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Use appropriate container to avoid environmental contamination.

Exceptional labelling

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

Further information

WHO-classification: Ib (Highly hazardous)

16. OTHER INFORMATION**Further information**

Text of R-phrases mentioned in Section 3

R25 Toxic if swallowed.

R36 Irritating to eyes.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information given in this Data Sheet has been included in accordance with the guidelines established by Regulation (EC) 1907/2006. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

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