

**MOCAP 10G 17001 1X15KG IE**Version 1 / IRL  
102000019751/7  
Revision Date: 12.05.2004  
Print Date: 12.05.2004**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING****Product information**

Trade name MOCAP 10G 17001 1X15KG IE  
Product code (UVP) 05927978  
Product code AE F034142 00 FG10 A1  
Product code (EXP) 05806A  
Specification 17001  
Usage insecticide  
Company Bayer CropScience  
Bayer Ltd  
Chapel Lane, Swords  
CO Dublin  
Ireland

Telephone +353-1-8132222  
Telefax +353-1-8132288  
Emergency telephone number 1800-409-399

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

Granule (GR)  
Ethoprophos 10% GR

**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Ethoprophos	13194-48-4 236-152-1	T+	R25, R27	10.00
1,2 Propanediol	57-55-6 200-338-0			> 1.00 - < 5.00

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

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

**4. FIRST AID MEASURES****General advice**

This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).



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### Inhalation

No special precautions required.

### Skin contact

Take off all contaminated clothing immediately. Wash off with soap and water. If symptoms persist, call a physician.

### Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### Ingestion

Wash out mouth with water. 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). Keep body calm, protect against loss of heat. Call in a physician immediately and show him the Safety Data Sheet.

### Notes to physician

#### Symptoms

symptoms of cholinesterase inhibition (gastrointestinal disturbances, dyspnoea, narrowing of the respiratory passages, bradycardia, miosis, clonic spasms).

#### Risks

This product is a cholinesterase inhibiting organophosphorous pesticide.  
Dangerous amounts can be absorbed through the skin.

#### Treatment

Monitoring of respiratory, cardiac and central nervous system.  
Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.  
Artificial respiration and/or oxygen may be necessary.  
Elimination by dialysis (forced alkaline diuresis).  
Observe specific parameters: red blood cell and plasma cholinesterase.  
Against convulsions: Give diazepam: for adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v.  
Treatment: a high dose of atropine (1 to 4 mg for adults) repeated as needed.  
In association, if possible, with Contrathion (Pralidoxime) (1g intravenously for adults) repeated after 10 to 12 h.

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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

foam  
dry powder  
carbon dioxide (CO<sub>2</sub>)

### Specific hazards during fire fighting

The product itself does not burn.  
In the event of fire the following can be released:  
carbon monoxide (CO)  
nitrogen oxides (NO<sub>x</sub>)  
phosphorus oxides (eg phosphorus pentoxide)  
Sulphur oxides  
carbon dioxide (CO<sub>2</sub>)

### Special protective equipment for fire-fighters

Use breathing apparatus.

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Contain the spread of the fire-fighting media.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Use personal protective equipment.

**Environmental precautions**

Keep people and animals away.

Do not allow spilt product to enter soil or waterways

If the product contaminates rivers and lakes or drains inform respective authorities.

Local authorities should be advised if significant spillages cannot be contained.

**Methods for cleaning up**

Sweep up or vacuum up spillage and collect in suitable container for disposal.

Pick up and fill the product into a tightly closed container.

When picked up, treat material as prescribed under heading "Disposal".

**Additional advice**

Information regarding waste disposal, see section 13.

**7. HANDLING AND STORAGE****Handling**

Advice on safe handling

Smoking, eating and drinking should be prohibited in the application area.

Do not breathe dust.

**Storage**

Requirements for storage areas and containers

Keep out of the reach of children.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Suitable materials

Rigid material with protection against moisture

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Control parameters	Update	Basis
1,2 Propanediol	57-55-6	470 mg/m <sup>3</sup> (TWA)	1999	ELV (IE)
		10 mg/m <sup>3</sup> (TWA)	1999	ELV (IE)
		470 mg/m <sup>3</sup> (TWA)	2001	ELV (IE)
		10 mg/m <sup>3</sup> (TWA)	2001	ELV (IE)

**Engineering measures**

Provide appropriate exhaust ventilation at places where dust is formed.

**Personal protective equipment**

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Respiratory protection	Particle filter half mask, filter FFP2 (Standard EN149)
Hand protection	Wear as appropriate: Plastic-coated gloves
Eye protection	safety glasses with side-shields
Skin and body protection	Light protective clothing, thick material
Hygiene measures	Wash hands immediately after work, if necessary take a shower
Protective measures	Cholinesterase activity of the worker should be supervised.

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**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	pellets
Colour	beige
Odour	unpleasant

**Safety data**

pH	7.0 at ( 24 - 25 °C)
Density	0.77 g/l
Partition coefficient (n-octanol/water)	POW: 2.9 The value mentioned relates to the active ingredient ethoprophos.
Explosivity	The product is not explosive.

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**10. STABILITY AND REACTIVITY**

Hazardous reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under normal conditions.
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**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	LD50 (rat) 329 mg/kg
Acute inhalation toxicity	LC50 (rat) 0.360 mg/l Exposure time: 4 h Tested in the form of respirable fine dust.
Acute dermal toxicity	LD50 (rabbit) 133 mg/kg
Skin irritation	No skin irritation (rabbit)

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Eye irritation	slight irritant effect - does not require labelling (rabbit)
Sensitization	sensitizing The value mentioned relates to the active ingredient ethoprophos.

**12. ECOLOGICAL INFORMATION****Ecotoxicity effects**

Toxicity to fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 1.71 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient.
Toxicity to daphnia	EC50 (Water flea ( <i>Daphnia magna</i> )) 0.20 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient.
Toxicity to algae	IC50 ( <i>Scenedesmus subspicatus</i> ) 2.4 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient.

**13. DISPOSAL CONSIDERATIONS****Product**

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

**Contaminated packaging**

Packaging that cannot be cleaned should be disposed of as product waste.  
Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations.

**Waste key for the unused product**

020108 agrochemical waste containing dangerous substances

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

UN-No	<b>2783</b>
Labels	6.1
Packaging group	II
Hazard no.	60
Description of the goods	UN 2783 ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (ETHOPROPHOS)

**IMDG**

UN-No	<b>2783</b>
Class	6.1
Packaging group	II
Marine pollutant	Marine pollutant
Description of the goods	ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC

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(ETHOPROPHOS 10% )

**IATA**

UN-No	<b>2783</b>
Class	6.1
Packaging group	II
Description of the goods	ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (ETHOPROPHOS )

**15. REGULATORY INFORMATION**

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

Hazardous components which must be listed on the label:

- Ethoprophos

## Symbol(s)

T	Toxic
N	Dangerous for the environment

## R-phrase(s)

R22	Harmful if swallowed.
R24	Toxic in contact with skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## S-phrase(s)

S35	This material and its container must be disposed of in a safe way.
S36/37	Wear suitable protective clothing and gloves.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S57	Use appropriate containment to avoid environmental contamination.

## Exceptional labelling of special preparations

Restricted to professional users.  
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 2:

R25	Toxic if swallowed.
R27	Very toxic in contact with skin.

The information given in this Data Sheet has been included in accordance with the guidelines established by EC Directive 1991/155/EC as amended. 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.

Bayer CropScience



SAFETY DATA SHEET according to EC Directive 2001/58/EC

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