

**PREVICUR® ENERGY SL 840****Ukraine**

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Version 2 / EU
102000004473Revision Date: 22.12.2008
Print Date: 07.04.2009**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	PREVICUR® ENERGY SL 840
Product code (UVP)	06396712
Usage	Fungicide
Company	Bayer CropScience AG Alfred-Nobel-Straße 50 40789 Monheim am Rhein Germany
Telephone	+49(0)2173-38-3373
Telefax	+49(0)2173-38-7394
Responsible Department	Material and Transport Safety Management +49(0)2173-38-3409/4566 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**

May cause sensitization by skin contact.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**Soluble concentrate (SL)
Propamocarb/Fosetyl 530:310 g/l**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Propamocarb	24579-73-5	Xi	R43	47,28
Fosetyl	15845-66-6	Xi	R41	27,65

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

4. FIRST AID MEASURES**General advice**

Remove contaminated clothing immediately and dispose of safely.

Inhalation

Move to fresh air. If symptoms persist, call a physician.



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Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion

When swallowed accidentally, do not induce vomiting, get medical help. Rinse out mouth and give water in small sips to drink. Ingest activated charcoal.

Notes to Physician

Symptoms

The following symptoms may occur: lethargy, ataxia, spasm, Local: sensitising effects

Risks

This product, although being a carbamate, is NOT a cholinesterase inhibitor.

Treatment

Treat symptomatically.

There is no specific antidote.

Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Specific hazards during fire fighting

In the event of fire the following may be released:
Carbon monoxide (CO)
Nitrogen oxides (NO_x)
Oxides of phosphorus
Hydrogen chloride (HCl)

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Further information

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Use personal protective equipment.

Environmental Precautions

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

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.

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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 protection against fire and explosion
 No special precautions required.

Storage

Requirements for storage areas and containers
 Store in original container.
 Keep away from direct sunlight.
 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 0 °C to 40 °C

Suitable materials

HDPE (high density polyethylene)

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

Components	CAS-No.	Control parameters	Update	Basis
Propamocarb	24579-73-5	1,1 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).

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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	Keep away from food, drink and animal feedingstuffs. Remove soiled clothing immediately and clean thoroughly before using again. Avoid contact with skin, eyes and clothing. Wash hands immediately after work, if necessary take a shower.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid
Colour	colourless to yellowish
Odour	odourless

Safety data

pH	6 - 7,5 at 100 % (20 °C)
Boiling point/boiling range	from 100 °C
Flash point	> 120 °C at 1.013 hPa
Ignition temperature	300 °C
Density	approx. 1,12 g/cm ³ at 20 °C
Water solubility	completely miscible
Viscosity, kinematic	36,9 mm ² /s at 40 °C
Surface tension	59 mN/m at 20 °C Determined as a 1% solution in distilled water.
Explosivity	Not explosive. 92/69/EEC, A.14 / OECD 113

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

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Acute Oral Toxicity	LD50 (rat) > 2.000 mg/kg
Acute Dermal Toxicity	LD50 (rat) > 2.000 mg/kg
Skin Irritation	No skin irritation. (rabbit)
Eye Irritation	Slight irritant effect - does not require labelling. (rabbit)
Sensitization	sensitizing (mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to Fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) > 98 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) > 97 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (<i>Pseudokirchneriella subcapitata</i>) > 97 mg/l Exposure time: 72 h

13. DISPOSAL CONSIDERATIONS**Product**

Do not dispose of waste into sewer.
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.

Contaminated packaging

Triple rinse containers.
Do not use containers for other products.
The empty containers must be taken, where possible, to a waste collection system licensed for waste management of packaging materials in agriculture.
Not completely emptied packagings should be disposed of as hazardous waste.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION

According to national and international transport regulations not classified as dangerous goods.

15. REGULATORY INFORMATION

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

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Classification:

Hazard warning labelling compulsory

Hazardous components which must be listed on the label:

- Propamocarb
- Fosetyl

Symbol(s)

Xi Irritant

R-phrases

R43 May cause sensitization by skin contact.

S-phrases

S24 Avoid contact with skin.
S37 Wear suitable gloves.

Exceptional labelling

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

Further information

WHO-classification: III (Slightly hazardous)

16. OTHER INFORMATION**Further information**

Text of R-phrases mentioned in Section 3

R41 Risk of serious damage to eyes.
R43 May cause sensitization by skin contact.

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.
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