

**CYB+IMD OD 45+100 G****U-CI**

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Version 1 / D
102000011697Revision Date: 15.03.2005
Print Date: 18.03.2005

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information

Trade name	CYB+IMD OD 45+100 G	U-CI
Product code (UVP)	06365574	
Usage	insecticide	
Company	Bayer CropScience AG Alfred-Nobel-Straße 50 40789 Monheim Germany	
Telephone	+49(0)69-305-5748	
Telefax	+49(0)69-305-80950	
Responsible Department	Material and Transport Safety Management +49(0)69-305-82369/12588	

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

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Oil dispersion (OD)
Beta-Cyfluthrin 45 g/l + Imidacloprid 100 g/l

Hazardous components

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
beta-Cyfluthrin	68359-37-5 269-855-7	T+, N	R26/28, R50/53	4,60
Imidacloprid	138261-41-3	Xn	R22, R52	10,20
Cyclohexanone	108-94-1 203-631-1	Xn	R10, R20	7,50
2-Ethylhexanol propylene ethyleneglycol ether	64366-70-7	Xn	R20, R52/53	19,80
Alkylaryl sulfonate		Xi	R38, R41	> 3,00 - < 6,00
2-Ethylhexanole	104-76-7 203-234-3	Xi	R36/38	> 3,00 - < 6,00
Ethoxylated alcohol		Xn	R22, R38, R41	> 1,00 - <= 3,00

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment

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

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4. FIRST AID MEASURES

General advice

Move out of dangerous area. If the patient is likely to become unconscious, place and transport in stable sideways position. Remove soiled or soaked clothing immediately. Also heed the risks to your own person.

Inhalation

Remove to fresh air. Keep patient warm and at rest. Call a physician immediately.

Skin contact

Wash off immediately with soap and plenty of water. After skin contact: Apply Vitamin E cream or simple toilet milks.

Eye contact

In case of contact with eyes rinse thoroughly with water. Call a physician immediately.

Ingestion

Do not induce vomiting. Wash out mouth with water. Call a physician immediately.

Notes to Physician**Symptoms**

Local: After skin contact: paresthesia (local)., Usually transient with resolution within 24 hours.,
Systemic: excitement, gastrointestinal discomfort, tremor, Dizziness, headache, listlessness, nausea and vomiting, epigastric pain, muscular fasciculation of limbs, unconsciousness, convulsions and coma (very high doses).

Risks

This product/preparation contains a pyrethroid.
Must NOT be confused with organophosphorus compounds!

Treatment

Systemic treatment:
Endotracheal intubation should be done and gastric lavage performed, followed by administration of charcoal.
Monitoring of respiratory, cardiac and central nervous system.
ECG - monitoring (Electrocardiogram).
Early dialysis (h(a)emoperfusion)
Check for pulmonary oedema in event of inhalation.
Against convulsions: Give diazepam: for adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v.
There is no specific antidote.
Contraindication: atropine.
Contraindication: derivatives of adrenaline.

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 can be released:
hydrogen chloride (HCl)
hydrogen cyanide (hydrocyanic acid)
hydrogen fluoride

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nitrous gases (NO_x)**Special protective equipment for fire-fighters**In the event of fire and/or explosion do not breathe fumes.
Use 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.
Wear personal protective equipment. Unprotected persons must be kept away.**Environmental Precautions**

Do not discharge into the drains/surface water/groundwater.

Methods for Cleaning UpTake up with absorbent material (e.g. sand, earth or a proprietary absorbent material).
Clean contaminated floors and objects thoroughly, observing environmental regulations.
Pack spilled material in suitable containers for recovery or disposal.**Additional Advice**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.
Keep container tightly closed in a dry and well-ventilated place.
Store in a place accessible by authorized persons only.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

German storage class 10 Combustible liquids neither in Storage Class 3A nor 3B

Storage stability

Other data The storage temperature should not exceed 50 °C.

Suitable materials

Only use containers that are approved specifically for the substance/product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Personal protective equipment**

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Respiratory Protection	If product is handled while not enclosed, and if skin contact may occur: Full mask Multi-range filter ABEK/P2
Hand Protection	solvent-resistant gloves
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 or soaked clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	dispersion
Colour	white
Odour	characteristic

Safety data

pH	5 - 8 at 1 %
Flash Point	72 °C
Density	ca. 0,98 g/cm ³ at 20 °C
Water Solubility	miscible

10. STABILITY AND REACTIVITY

Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions.
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11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD50 (rat) 500 mg/kg
Acute Inhalation Toxicity	LC50 (rat) 1,977 mg/l Exposure time: 4 h (as aerosol)
Acute Dermal Toxicity	LD50 (rat) > 4.000 mg/kg
Skin Irritation	non-irritant (rabbit)
Eye Irritation	Risk of serious damage to eyes. (rabbit)

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Sensitization	Non-sensitizing (guinea pig) OECD 406, Buehler test
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12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to Fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 211 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient imidacloprid.
Toxicity to Fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 0,000068 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient beta-cyfluthrin.
Toxicity to daphnia	EC0 (Water flea (<i>Daphnia magna</i>)) 85 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient imidacloprid.
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 0,00029 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient beta-cyfluthrin.
Toxicity to algae	IC50 (<i>Pseudokirchneriella subcapitata</i>) > 100 mg/l Growth rate Exposure time: 72 h The value mentioned relates to the active ingredient imidacloprid.
Toxicity to algae	IC50 (<i>Desmodesmus subspicatus</i>) > 0,010 mg/l Growth rate Exposure time: 72 h The value mentioned relates to the active ingredient beta-cyfluthrin. No acute toxicity was observed at its limit of water solubility.

13. DISPOSAL CONSIDERATIONS**Product**

Dispose of by incineration in an authorised special waste incineration plant. Comply with local legislation.

For larger quantities contact manufacturer.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

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

UN-No	3352
Labels	6.1
Packaging group	III
Hazard no.	60
Description of the goods	UN 3352 PYRETHROID PESTICIDE, LIQUID, TOXIC (BETA-CYFLUTHRIN)

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UN-No	3352
Class	6.1
Packaging group	III
EmS	F-A , S-A
Description of the goods	PYRETHROID PESTICIDE, LIQUID, TOXIC (BETA-CYFLUTHRIN)

IATA

UN-No	3352
Class	6.1
Packaging group	III
Description of the goods	PYRETHROID PESTICIDE, LIQUID, TOXIC (BETA-CYFLUTHRIN)

15. REGULATORY INFORMATION

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

Classification:

Labelling according to EEC Directive

Hazardous components which must be listed on the label:

- beta-Cyfluthrin
- Imidacloprid

Symbol(s)

Xn	Harmful
N	Dangerous for the environment

R-phrases(s)

R20/22	Harmful by inhalation and if swallowed.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

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.
S39	Wear eye/face protection.
S57	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: II (Moderately hazardous)

National legislation

Risk classification according to BetrSichV (Germany)	Not subject to the regulations on combustible liquids.
Water contamination class (Germany)	WGK 2 water endangering

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LegislationSubjected to the "Disasters and Major Accidents Act "
Annex I, list of dangerous substances, No. 9b

Other regulations

BG Leaflet M004 "Irritant substances / Corrosive substances"

BG Leaflet M050 "Handling of Hazardous Substances"

BG Leaflet M053 "General Protective Measures for the handling of hazardous substances"

16. OTHER INFORMATION**Further information**

Text of R phrases mentioned in Section 2:

R10	Flammable.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R26/28	Very toxic by inhalation and if swallowed.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

For further information on active ingredients see also: Wirkstoffe in Pflanzenschutz- und Schädlingsbekämpfungsmitteln: physikalisch-chemische und toxikologische Daten IVA, Industrieverb. Agrar e.V. - 3., neubearb. Aufl. - München; Wien; Zürich; BLV Verl.-Ges.mbH, 2000 ISBN 3-405-15809-5

The advice on classification in section 15 of this Safety Data Sheet is based on European Directive on Preparations (1999/45/EC and its subsequent adaptations). The legislation on pesticide preparations should be applied by EU Member States not later than 30 July 2004.

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.

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.

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