

**CYFLUTHRIN EC 50A G****U-WW**

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Version 2 / EU  
102000006076

Revision Date: 26.07.2010

Print Date: 07.02.2012

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

Trade name	CYFLUTHRIN EC 50A G	U-WW
Product code (UVP)	00298468	
Usage	Insecticide	
Company	Bayer CropScience AG Alfred-Nobel-Straße 50 40789 Monheim am Rhein Germany	
Telefax	+49(0)2173-38-7394	
Responsible Department	Product Safety and Specification Mgmt +49(0)2173-38-3409/3189 (during business hours only) Email: MSDS@bayercropscience.com	
Emergency telephone number	+1 (760) 476-3964 (Company 3E for Bayer CropScience)	

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

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

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

Emulsifiable concentrate (EC)  
Cyfluthrin 50 g/l

**Hazardous components**

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Cyfluthrin	68359-37-5 269-855-7	T+, N	R23, R28, R50/53	5,70
Xylene	1330-20-7 215-535-7	Xn	R10, R20/21, R38	84,00
Nonylphenol ethoxylate 8 EO	37205-87-1	Xn	R22, R41, R53	< 5,00
Butan-1-ol	71-36-3 200-751-6	Xn	R10, R22, R37/38, R41, R67	< 5,00
Dodecyl benzene sulphonate, calcium salt	26264-06-2 247-557-8	Xi	R38, R41	< 5,00

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



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**4. FIRST AID MEASURES**

**General advice**

Move out of dangerous area. Place and transport victim in stable position (lying sideways).  
Remove contaminated clothing immediately and dispose of safely.

**Inhalation**

Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.

**Skin contact**

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. 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. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Call a physician or poison control center immediately.

**Ingestion**

Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

**Notes to physician**

**Symptoms**

Local:, Skin and eye paraesthesia which may be severe, Usually transient with resolution within 24 hours., Skin, eye and mucous membrane irritation, Cough, Sneezing

**Symptoms**

Systemic:, discomfort in the chest, Tachycardia, Hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Dizziness, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, pulmonary oedema, Palpitation, Muscular fasciculation, Apathy

**Risks**

This product contains a pyrethroid.  
Pyrethroid poisoning should not be confused with carbamate or organophosphate poisoning.

**Treatment**

Local treatment:  
Initial treatment: symptomatic.



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**Treatment**

Systemic treatment:  
Initial treatment: symptomatic.  
Monitor: respiratory and cardiac functions.  
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.  
Keep respiratory tract clear.  
Oxygen or artificial respiration if needed.  
In case of convulsions, a benzodiazepine (e.g. diazepam) should be given according to standard regimens.  
If not effective, phenobarbital may be used.  
Contraindication: atropine.  
Contraindication: derivatives of adrenaline.  
There is no specific antidote.  
Recovery is spontaneous and without sequelae.

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**5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**

Water spray  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Sand

**Specific hazards during fire fighting**

In the event of fire the following may be released:  
Hydrogen chloride (HCl)  
Hydrogen cyanide (hydrocyanic acid)  
Hydrogen fluoride  
Carbon monoxide (CO)  
nitrogen oxides (NO<sub>x</sub>)

**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.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Avoid contact with spilled product or contaminated surfaces.  
Use personal protective equipment.  
Remove all sources of ignition.

**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, sawdust).  
Clean contaminated floors and objects thoroughly, observing environmental regulations.  
Keep in suitable, closed containers for disposal.

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**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.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Take measures to prevent the build up of electrostatic charge.

**Storage**

Requirements for storage areas and containers

Store in original container.

Keep containers tightly closed in a dry, cool 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.

Temperature tolerance	min.	max.
	0 °C	40 °C

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

Components	CAS-No.	Control parameters	Update	Basis
Cyfluthrin	68359-37-5	0,01 mg/m <sup>3</sup> (TWA)		OES BCS*
Xylene	1330-20-7	221 mg/m <sup>3</sup> / 50 ppm (TWA)	02 2006	EU ELV
Xylene	1330-20-7	442 mg/m <sup>3</sup> / 100 ppm (STEL)	02 2006	EU ELV
Xylene	1330-20-7	100 ppm (TWA)		OES BCS*
Xylene (Vapor.)	1330-20-7	50 mg/m <sup>3</sup>	12 2004	
Xylene (Vapor.)	1330-20-7	150 mg/m <sup>3</sup>	12 2004	
Butan-1-ol	71-36-3	100 ppm (TWA)		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	If product is handled while not enclosed, and if contact may occur:
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	Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent.
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.
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).

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

Form	liquid, clear
Colour	yellow to brown
Odour	aromatic

**Safety data**

Flash point	24 °C
Ignition temperature	> 500 °C
Vapour pressure	15 hPa at 20 °C
Vapour pressure	69 hPa at 50 °C
Vapour pressure	87 hPa at 55 °C
Density	ca. 0,90 g/cm <sup>3</sup> at 20 °C
Water solubility	emulsifiable
Viscosity, kinematic	ca. 1,3 mm <sup>2</sup> /s at 20 °C
Impact Sensitivity	not impact-sensitive

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**10. STABILITY AND REACTIVITY**

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

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity	LD50 (rat) 1.213 mg/kg
Acute inhalation toxicity	LC50 (rat) > 0,702 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol. Highest attainable concentration.
Acute dermal toxicity	LD50 (rat) > 5.000 mg/kg
Skin irritation	Irritating to skin. (rabbit)
Eye irritation	Severe eye irritation. (rabbit)

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

Toxicity to fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 0,00047 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient cyfluthrin.
Toxicity to aquatic invertebrates	EC50 (Water flea ( <i>Daphnia magna</i> )) 0,00016 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient cyfluthrin.
Toxicity to aquatic plants	IC50 ( <i>Desmodium subspicatus</i> ) > 10 mg/l Growth rate; Exposure time: 72 h The value mentioned relates to the active ingredient cyfluthrin.

**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	1993
Labels	3
Packaging group	III

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Hazard no.	30
Description of the goods	FLAMMABLE LIQUID, N.O.S. (XYLENE, CYFLUTHRIN SOLUTION)
Tunnel Code	D/E
Special Provision	640E

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	<b>1993</b>
Labels	3
Packaging group	III
EmS	F-E , S-E
Marine pollutant	Marine Pollutant
Description of the goods	FLAMMABLE LIQUID, N.O.S. (XYLENE, CYFLUTHRIN SOLUTION)

**IATA**

UN-Number	<b>1993</b>
Labels	3
Packaging group	III
Description of the goods	FLAMMABLE LIQUID, N.O.S. (XYLENE, CYFLUTHRIN SOLUTION)

**15. REGULATORY INFORMATION****Labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.**

## Classification:

Classified as hazardous for supply/use.

## Hazardous components which must be listed on the label:

- Cyfluthrin
- Xylene

## Symbol(s)

Xn	Harmful
N	Dangerous for the environment

## R-phrases(s)

R10	Flammable.
R20/22	Harmful by inhalation and if swallowed.
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.

## 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.

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## 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

R10	Flammable.
R20/21	Harmful by inhalation and in contact with skin.
R22	Harmful if swallowed.
R23	Toxic by inhalation.
R28	Very toxic if swallowed.
R37/38	Irritating to respiratory system 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.
R53	May cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

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.