

**FIPRONIL EC 25 G****U-WW**

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Version 1 / EU
102000001794

Revision Date: 13.08.2009

Print Date: 19.08.2010

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

Trade name	FIPRONIL EC 25 G	U-WW
Product code (UVP)	05924596	
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**

Irritating to skin.

Limited evidence of a carcinogenic effect.

Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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

Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking.

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

Emulsifiable concentrate (EC)

Fipronil 25 g/l

Hazardous components

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Fipronil	120068-37-3 4246105	T, N	R23/24/25, R48/25, R50/53	2,93
Odourless kerosine	64742-47-8 265-149-8	Xn	R65, R66	> 25,00
Tributyl phosphate	126-73-8 204-800-2	Xn	R22, R38, R40	> 1,00 - < 25,00
Nonylphenol ethoxylate	68412-54-4 5002091	Xi, N	R36/38, R51/53	> 0,10 - < 2,50
Polyoxyethylene-nonylphenyl-ether-phosphate	68412-53-3	Xi, N	R38, R41, R51/53	> 2,50 - < 25,00
Branched calcium dodecyl	68953-96-8	Xi, N	R38, R41,	> 0,10 - < 2,50

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benzene sulfonate	273-234-6		R51/53	
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For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES**General advice**

Move out of dangerous area. When symptoms develop and persist, seek medical advice.

Inhalation

When inhaled remove to fresh air and seek medical aid.

Skin contact

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Ingestion

If swallowed, seek medical advice immediately and show this container or label.

Notes to Physician**Symptoms**

The following symptoms may occur:., anxiety, Tremors, restlessness, Convulsions

Treatment

Carefully monitor the respiratory functions.

There is no specific antidote.

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

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.

Symptoms of poisoning may only appear several hours later.

Keep under medical supervision for at least 48 hours.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Water spray

Foam

Carbon dioxide (CO₂)

Dry powder

Specific hazards during fire fighting

In the event of fire the following may be released:

Carbon monoxide (CO)

Hydrogen chloride (HCl)

Nitrogen oxides (NO_x)

Hydrogen fluoride (HF)

Sulphur oxides

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit.

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- Contain the spread of the fire-fighting media.
- Cool closed containers/ tanks exposed to fire with water spray.
- 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

- Recover the product by pumping, suction or absorption using a dry and inert absorbent clay.
- Collect and transfer the product into a properly labelled and tightly closed container.
- When picked up, treat product as prescribed in Ch. 13. "Disposal considerations".

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

- No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.
- Use only in area provided with appropriate exhaust ventilation.

Storage

Requirements for storage areas and containers

- 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.	max.
	0 °C	40 °C

Suitable materials

- Coextruded containers with an internal barrier layer made of ethylene vinyl alcohol copolymer (EVOH)
- Coextruded containers with an internal barrier layer made of polyamide (PA)

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

Components	CAS-No.	Control parameters	Update	Basis
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Fipronil	120068-37-3	0,035 mg/m ³		OES BCS*
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*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	Wear respirator with an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent. 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	Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Smoking, eating and drinking should be prohibited in the application area.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid
Colour	colourless to yellowish

Safety data

pH	3,1 - 3,3 at 1 % (23 °C)
Flash point	>= 80 °C
Density	approx. 0,86 g/cm ³ at 20 °C
Water solubility	dispersible

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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) > 2.000 mg/kg
Acute Inhalation Toxicity	LC50 (rat) > 5,03 mg/l Exposure time: 4 h
Acute Dermal Toxicity	LD50 (rat) > 2.000 mg/kg
Skin Irritation	Irritating to skin. (rabbit)
Eye Irritation	No eye irritation. (rabbit)
Sensitization	Non-sensitizing. OECD Test Guideline 406, Buehler test

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to Fish	LC50 (Rainbow trout (<i>Oncorhynchus mykiss</i>)) 4,5 mg/l Exposure time: 96 h
Toxicity to daphnia	EC50 (Water flea (<i>Daphnia magna</i>)) 0,09 mg/l Exposure time: 48 h
Toxicity to algae	EC50 (<i>Scenedesmus subspicatus</i>) 0,074 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient fipronil.

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.

Contaminated packaging

Empty remaining contents.
Rinsed packaging may be acceptable for landfill, otherwise incineration will be required in accordance with local regulations.
Not completely emptied packagings should be disposed of as hazardous waste.

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020108 agrochemical waste containing dangerous substances

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

UN-Number	3082
Labels	9
Packaging group	III
Hazard no.	90
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FIPRONIL SOLUTION)
Tunnel Code	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	3082
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	Marine pollutant
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FIPRONIL SOLUTION)

IATA

UN-Number	3082
Labels	9
Packaging group	III
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FIPRONIL 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

Hazardous components which must be listed on the label:

- Fipronil
- Tributyl phosphate

Symbol(s)

Xn	Harmful
N	Dangerous for the environment

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R-phrases(s)

R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

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.
S36/37	Wear suitable protective clothing and gloves.
S39	Wear eye/face protection.
S57	Use appropriate container to avoid environmental contamination.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

R22	Harmful if swallowed.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R40	Limited evidence of a carcinogenic effect.
R41	Risk of serious damage to eyes.
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

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.