

**BAYER CRAWLING INSECT KILLER**Version 1 / GB  
1020000129761/8  
Revision Date: 01.07.2008  
Print Date: 09.01.2009**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name BAYER CRAWLING INSECT KILLER  
Product code (UVP) 05700654  
Usage Insecticide  
Company Bayer Environmental Science  
230 Cambridge Science Park  
Milton Road  
Cambridge  
Cambridgeshire CB4 0WB  
Great Britain

Telephone +44(0)1223 226500  
Telefax +44(0)1223 426240  
Responsible Department Email: ukinfo@bayercropscience.com

Emergency telephone number 0800-220876 (UK 24 hr)  
+44(0)1603-242424 (Overseas 24 hr)

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

Pressurised container, heating will cause pressure rise with a risk of bursting.  
Extremely flammable.  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

Aerosol dispenser (AE)  
Imiprothrin 0,1%, Cyphenothrin 0,3 %

**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrases(s)	Concentration [%]
Imiprothrin	72963-72-5	Xn, N	R20, R50/53	0.10
Cyphenothrin	39515-40-7 254-484-5	Xn, N	R22, R50/53	0.20
Benzene, C10-13-alkyl derivatives	67774-74-7 267-051-0	N	R50	> 2.50 - < 25.00
Distillates (petroleum), hydrotreated light	64742-47-8 265-149-8	Xn	R65	> 10.00
Butane	106-97-8 203-448-7	F+	R12	> 1.00

For the full text of the R-phrases 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 immediately with soap and plenty of water. After skin contact: Apply Vitamin E cream or a simple body milk. Get medical attention if irritation develops and persists.

#### 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. Get medical attention if irritation develops and persists.

#### Notes to Physician

#### Symptoms

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

#### Symptoms

Systemic: discomfort in the chest, tachycardia, hypotension, nausea, Abdominal pain, Diarrhoea, Vomiting, dizziness, blurred vision, headache, anorexia, somnolence, Coma, Convulsions, Tremors, prostration

#### Risks

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

#### Treatment

Local treatment:  
After eye contact: Instillation of local anaesthetic drops e.g. 1% Amethocaine Hydrochloride eye drops. Give Analgesics as necessary.

#### Treatment

Systemic treatment:  
Initial treatment: symptomatic.  
Monitoring of respiratory and cardiac functions.  
In case of ingestion perform gastric lavage, then administer charcoal (carbo medicalis) and sodium sulfate.  
Anti-convulsive therapy: Diazepam i.v. is the remedy of choice; barbiturates, e.g. phenobarbital and calcium gluconate, may also be used.  
In case of shortness of breath, give oxygen.  
Contraindication: derivatives of adrenaline.  
Contraindication: atropine.  
Spontaneous recovery.  
There is no specific antidote.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Extinguishing media which should not be used for safety reasons

High volume water jet



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### Specific hazards during fire fighting

In the event of fire the following can be released:  
Carbon monoxide (CO)

### Specific hazards during fire fighting

Heating can lead to increased pressure with risk of explosion.

### 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

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat.  
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.  
If spillage enters drains leading to sewage works inform local water company immediately.  
If spillage enters rivers or watercourses, inform the Environment Agency (emergency telephone number 0800 807060).

### Methods for Cleaning Up

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

### Additional Advice

Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

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## 7. HANDLING AND STORAGE

### Handling

Advice on safe handling

No specific precautions required when handling unopened packs/containers; follow relevant manual handling advice.  
Ensure adequate ventilation.

Advice on protection against fire and explosion

The product is extremely flammable.  
Vapours may form explosive mixture with air.  
Fire or intense heat may cause violent rupture of packages.  
Keep away from heat and sources of ignition.

### Storage

Requirements for storage areas and containers

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Store in original container and out of the reach of children, preferably in a locked storage area.

Keep away from direct sunlight.

Protect from freezing.

Keep containers tightly closed in a dry, cool and well-ventilated place.

**Advice on common storage**

Keep away from food, drink and animal feedingstuffs.

**Storage stability**

Storage temperature < 50 °C

**Suitable materials**

Tinplate with interior lacquer

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Refer to COSHH assessment (Control of Substances Hazardous to Health (Amendment) Regulations 2004). Engineering controls should be used in preference to personal protective equipment wherever practicable. Refer also to COSHH Essentials.

**Components with workplace control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Butane	106-97-8	1,450 mg/m <sup>3</sup> / 600 ppm (TWA)	2007	EH40 WEL
Butane	106-97-8	1,810 mg/m <sup>3</sup> / 750 ppm (STEL)	2007	EH40 WEL

**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).
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.

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## Hygiene measures

- Avoid contact with skin, eyes and clothing.
- Keep working clothes separately.
- Wash hands before breaks and immediately after handling the product.
- Remove soiled clothing immediately and clean thoroughly before using again.
- Garments that cannot be cleaned must be destroyed (burnt).

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

Form aerosol

**Safety data**Density approx. 0.71 g/cm<sup>3</sup> at 20 °C**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**

Acute Oral Toxicity	LD50 (rat) 318 mg/kg The value mentioned relates to the active ingredient cyphenothrin.
Acute Oral Toxicity	LD50 (rat) 2,400 mg/kg The value mentioned relates to the active ingredient imiprothrin.
Acute Inhalation Toxicity	LC50 (rat) > 1.85 mg/l Exposure time: 3 h The value mentioned relates to the active ingredient cyphenothrin.
Acute Inhalation Toxicity	LC50 (rat) 2.81 - 3.62 mg/l Exposure time: 4 h The value mentioned relates to the active ingredient imiprothrin.
Acute Dermal Toxicity	LD50 (rat) > 5,000 mg/kg The value mentioned relates to the active ingredient cyphenothrin.
Acute Dermal Toxicity	LD50 (rat) > 2,000 mg/kg The value mentioned relates to the active ingredient imiprothrin.
Skin Irritation	No skin irritation. The value mentioned relates to the active ingredient cyphenothrin.
Skin Irritation	No skin irritation. The value mentioned relates to the active ingredient imiprothrin.

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Eye Irritation	Mild eye irritation. The value mentioned relates to the active ingredient cyphenothrin.
Eye Irritation	Mild eye irritation. The value mentioned relates to the active ingredient imiprothrin.

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

Toxicity to Fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 0.34 µg/l Exposure time: 96 h The value mentioned relates to the active ingredient cyphenothrin.
Toxicity to Fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 0.038 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient imiprothrin.
Toxicity to daphnia	LC50 (Water flea ( <i>Daphnia magna</i> )) 0.43 µg/l Exposure time: 96 h The value mentioned relates to the active ingredient cyphenothrin.
Toxicity to daphnia	EC50 (Water flea ( <i>Daphnia magna</i> )) 0.051 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient imiprothrin.

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

Disposal of the liquid product when not contained in the aerosol container by incineration in an appropriately licensed commercial incinerator.  
Advice may be obtained from the local waste regulation authority (part of the Environment Agency in the UK).

**Contaminated packaging**

Ensure aerosol container is empty before disposal.  
Dispose of empty and cleaned packaging safely.

**Waste key for the unused product**

160504 gases in pressure containers (including halons) containing dangerous substances

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

UN-Number	1950
Labels	2.1
Packaging group	
Hazard no.	
Description of the goods	AEROSOLS

**IMDG**

UN-Number	1950
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Labels	2.1
Packaging group	
EmS	F-D , S-U
Marine pollutant	Marine pollutant
Description of the goods	AEROSOLS

**IATA**

UN-Number	<b>1950</b>
Labels	2.1
Packaging group	
Description of the goods	AEROSOLS, FLAMMABLE

**UK 'Carriage' Regulations**

UN-Number	<b>1950</b>
Labels	2.1
Packaging group	
Hazard no.	
Description of the goods	AEROSOLS

**15. REGULATORY INFORMATION**

**This product has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002: CHIP 3 and any subsequent amendments.**

Classification:

Hazard warning labelling compulsory

Hazardous components which must be listed on the label:

- Imiprothrin
- Cyphenothrin
- Benzene, C10-13-alkyl derivatives

Symbol(s)

F+	Extremely flammable
N	Dangerous for the environment

R-phrases(s)

R12	Extremely flammable.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S 2	Keep out of the reach of children.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe spray.
S35	This material and its container must be disposed of in a safe way.
S51	Use only in well-ventilated areas.
S57	Use appropriate container to avoid environmental contamination.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.  
Do not spray on a naked flame or any other incandescent material.  
Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50 °C.  
Do not pierce or burn, even after use.

Further information

WHO-classification: III (Slightly hazardous)



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### 16. OTHER INFORMATION

#### Further information

Text of R-phrases mentioned in Section 3

R12	Extremely flammable.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R50	Very toxic to aquatic organisms.
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.

The above information is intended to give general health and safety guidance on the storage and transport of the product.

It is not intended to apply to the use of the product for which purposes the product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with.

The requirements or recommendations of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given.

The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate.

No liability will be accepted for any injury, loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.

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