

**BAYER CRAWLING INSECT KILLER**Version 2 / GB
1020000129761/8
Revision Date: 31.03.2009
Print Date: 30.04.2009**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. / EC-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. In case of skin irritation, application of oils or lotions containing vitamin E may be considered. 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

Risks

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

Treatment

|| Treat symptomatically.

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

Specific hazards during fire fighting

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

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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

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



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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.

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

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
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Butane	106-97-8	1,450 mg/m ³ / 600 ppm (TWA)	2007	EH40 WEL
Butane	106-97-8	1,810 mg/m ³ / 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.

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/cm³ 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.

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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.
Eye Irritation	Mild eye irritation. The value mentioned relates to the active ingredient cyphenothrin.
Eye Irritation	No eye irritation. The value mentioned relates to the active ingredient imiprothrin.

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.

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Toxicity to daphnia EC50 (Water flea (*Daphnia magna*)) 0.051 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient imiprothrin.

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

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

IATA

UN-Number **1950**
Labels 2.1
Packaging group
Description of the goods AEROSOLS, FLAMMABLE

UK 'Carriage' Regulations

UN-Number **1950**
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.



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Classification:

Hazard warning labelling compulsory

Hazardous components which must be listed on the label:

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

Symbol(s)

F+ Extremely flammable
N Dangerous for the environment

R-phrase(s)

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

S-phrase(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.

|| CLASSIFICATION ACCORDING TO SPECIFIC UK REGULATIONS:

|| The labelling information below is that which has been approved under 'The Control of Pesticides Regulations 1986' and/or 'Part III of the Food and Environment Protection Act 1985' and/or 'Plant Protection Product Regulations 1999' and any subsequent amendments and may differ from that indicated by any toxicological and/or other testing otherwise indicated in this 'Safety Data Sheet'.

Symbol(s)

||| F+ Extremely flammable
||| Xi Irritant

R-phrase(s)

||| R12 Extremely flammable.
||| R43 May cause sensitization by skin contact.

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)

16. OTHER INFORMATION

Further information

Text of R-phrases mentioned in Section 3

R12 Extremely flammable.
R20 Harmful by inhalation.



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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.