

**PROVADO ULTIMATE BUG KILLER AEROSOL**

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Version 1 / GB  
102000007188Revision Date: 10.08.2006  
Print Date: 10.08.2006**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	PROVADO ULTIMATE BUG KILLER AEROSOL
Product code (UVP)	05794358
Usage	household insecticide
Company	Bayer CropScience Limited 230 Cambridge Science Park Milton Road Cambridge Cambridgeshire CB4 0WB Great Britain
Telephone	+44(0)1223 226500
Telefax	+44(0)1223 426240
Emergency telephone number	0800-220876 (UK 24 hr) +44(0)1603-242424 (Overseas 24 hr)

**2. COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature**Aerosol dispenser (AE)  
Methiocarb 0,05 %, Imidacloprid 0,025 %**Hazardous components**

Chemical Name	CAS-No. / EINECS-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Methiocarb	2032-65-7 217-991-2	T, N	R25, R50/53	0.05
Imidacloprid	138261-41-3	Xn	R22, R52	0.025
Ethanol	64-17-5 200-578-6	F	R11	> 25.00 - < 50.00
Butane	106-97-8 203-448-7	F+	R12	> 50.00

**3. HAZARDS IDENTIFICATION****Risk advice to man and the environment**Pressurised container, heating will cause pressure rise with a risk of bursting.  
Extremely flammable.  
Irritating to eyes.**4. FIRST AID MEASURES****Inhalation**

Move the patient to fresh air and keep at rest.

**Skin contact**

Wash off immediately with soap and plenty of water. Get medical attention if irritation develops



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and persists.

**Eye contact**

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation develops and persists.

**Ingestion**

DO NOT induce vomiting unless directed to do so by a physician or poison control center. Rinse out mouth and give water in small sips to drink. Keep patient warm and at rest.

**Notes to Physician**

**Symptoms**

Local: Temporary blurred vision due to contraction of the pupils (miosis) following contact with the eyes. Systemic: salivation, flushing, dizziness, abdominal pain, discomfort in the chest, muscle twitching, convulsions, respiratory failure, nausea, headache, vomiting, diarrhoea, sweating, blurred vision, low blood pressure

**Treatment**

Initial treatment should be symptomatic and supportive.

In the event of a mouthful or more being ingested, the following measures should be considered:

Monitoring of respiratory, cardiac and central nervous system.

Monitoring of the blood picture.

Observe specific parameters: red blood cell and plasma cholinesterase.

ECG - monitoring (Electrocardiogram).

Endotracheal intubation and gastric lavage, followed by administration of charcoal.

Keep airway clear, administer artificial respiration if necessary.

Against convulsions: give diazepam. For adults 5-10 mg intravenously as necessary until fully sedated; for children 2.5 mg i.v.

Treatment for adults: for all cases a high dose of atropine (2 to 4 mg) repeated every 10 to 15 minutes as needed.

Contraindications: oximes (pralidoxime, oblidoxime), succinyl choline, aminophylline

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**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

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

**Extinguishing media which must not be used for safety reasons**

high volume water jet

**Specific hazards during fire fighting**

The product is extremely flammable.

Product is contained in a pressurised container which may explode on heating.

In case of fire the evolution of dangerous gases is possible.

**Special protective equipment for fire-fighters**

In the event of fire and/or explosion do not breathe fumes.

Wear self contained breathing apparatus for fire fighting if necessary.

**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.

Whenever possible, contain fire-fighting water by diking area with sand or earth.

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**6. ACCIDENTAL RELEASE MEASURES**



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**Personal Precautions**

- Keep people away from and upwind of spill/leak.
- Consider the need for evacuation.
- Avoid contact with spilled product or contaminated surfaces.
- Ensure adequate ventilation.
- When dealing with a spillage do not eat, drink or smoke.

**Environmental Precautions**

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

- The nature of this product, when contained in commercial packs, makes spillage unlikely. However, if significant amounts are spilled then the following advice is applicable.
- Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material).
- Transfer collected material to heavy duty plastic drums and keep safe for disposal.
- Clean floors and contaminated objects with plenty of water.

**Additional Advice**

- Information regarding safe handling, see section 7.
- Information regarding personal protective equipment, see section 8.
- Information regarding waste disposal, see section 13.
- Check also for any local site procedures.

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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.
- Do not spray on a naked flame or any other incandescent material.

**Storage**

Requirements for storage areas and containers

- Keep containers tightly closed in a cool, well-ventilated place.
- Store in original container and out of the reach of children, preferably in a locked storage area.
- Keep away from direct sunlight.
- Protect against frost.
- Keep away from heat.

Advice on common storage

- Keep away from food, drink and animal feedingstuffs.

Storage stability

Other data

Storage temperature should ideally lie between 0 and 30 °C, however, storage for two weeks at 54 °C has shown no adverse effects regarding product safety or stability.

Suitable materials

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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
Ethanol	64-17-5	1,920 mg/m <sup>3</sup> / 1,000 ppm (TWA)	2005	EH40 WEL
Butane	106-97-8	1,450 mg/m <sup>3</sup> / 600 ppm (TWA)	2005	EH40 WEL
Butane	106-97-8	1,810 mg/m <sup>3</sup> / 750 ppm (STEL)	2005	EH40 WEL

**Personal protective equipment**

In normal use conditions personal protective equipment is not deemed to be necessary. If there is a potential for excessive exposure the following applies.

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	When using, do not eat, drink or smoke. Clean hands and face at work intervals and after work.

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

Form aerosol

**Safety data**

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Density	ca. 0.64 g/cm <sup>3</sup> at 20 °C
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**10. STABILITY AND REACTIVITY**

Conditions to Avoid	Extremes of temperature and direct sunlight.
Materials to avoid	None.
Thermal decomposition	Fire or intense heat may cause violent rupture of packages.
Hazardous Reactions	No hazardous reactions when stored and handled according to prescribed instructions. Stable under recommended storage conditions.

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**11. TOXICOLOGICAL INFORMATION**

Acute Inhalation Toxicity	LC50 (rat) > 62 mg/l Exposure time: 4 h Highest attainable concentration. Determined in the form of a respirable aerosol. Test conducted with a similar formulation.
Skin Irritation	No skin irritation. (rabbit) Test conducted with a similar formulation.
Eye Irritation	Irritating to eyes. (rabbit) Test conducted with a similar formulation.
Sensitization	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test Test conducted with a similar formulation.

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

Toxicity to Fish	LC50 (Rainbow trout ( <i>Oncorhynchus mykiss</i> )) 0.65 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient methiocarb.
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 daphnia	EC50 (Water flea ( <i>Daphnia magna</i> )) 0.0077 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient methiocarb.

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Toxicity to daphnia	EC50 (Water flea (Daphnia magna)) 85 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient imidacloprid.
Toxicity to algae	IC50 (Desmodesmus subspicatus) 2.2 mg/l Growth rate Exposure time: 72 h The value mentioned relates to the active ingredient methiocarb.
Toxicity to algae	EC50 (Desmodesmus subspicatus) > 10 mg/l Growth rate Exposure time: 72 h The value mentioned relates to the active ingredient imidacloprid.

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

Dispose of unused product in its container at a household waste site (civic amenity site).  
Contact your local council (local authority) for details.

**Contaminated packaging**

Ensure aerosol container is empty before disposal.  
Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.  
Dispose of empty container in the dustbin.  
Follow advice on product label and/or leaflet.

**Waste key for the unused product**

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

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

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

**IMDG**

UN-No	<b>1950</b>
Class	2.1
Packaging group	
EmS	F-D , S-U
Description of the goods	AEROSOLS

**IATA**

UN-No	<b>1950</b>
Class	2.1
Packaging group	
Description of the goods	AEROSOLS, FLAMMABLE

**UK 'Carriage' Regulations**

UN-No	<b>1950</b>
Labels	2.1
Packaging group	

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Hazard no.	
Emergency action code	2YE
Description of the goods	UN 1950 AEROSOLS

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**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:

Labelling according to EC Directives

Hazardous components which must be listed on the label:

- Methiocarb
- Imidacloprid

Symbol(s)

F+	Extremely flammable
Xi	Irritant

R-phrases(s)

R12	Extremely flammable.
R36	Irritating to eyes.

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.
S51	Use only in well-ventilated areas.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.

Further information

WHO-classification: III (Slightly hazardous)

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**16. OTHER INFORMATION****Further information**

Text of R phrases mentioned in Section 2:

R11	Highly flammable.
R12	Extremely flammable.
R22	Harmful if swallowed.
R25	Toxic if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.

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.

Bayer Garden

SAFETY DATA SHEET according to EC Directive 2001/58/EC



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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.