



Material Safety Data Sheet

**BAYER ADVANCED DUAL ACTION ROACH KILLER
POWER PEN READY-TO-USE**

MSDS Number: 102000007347
MSDS Version 2.0
Revision Date: 04/13/2006

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name BAYER ADVANCED DUAL ACTION ROACH KILLER POWER PEN READY-TO-USE
MSDS Number 102000007347
EPA Registration No. 72155-70
Product Use Insecticidal bait for the control of cockroaches, including German, American, Smokey Brown, Oriental and other cockroach species.

Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)
For Product Information call: 1-800-331-2867

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Imidacloprid	138261-41-3	2.15

SECTION 3. HAZARDS IDENTIFICATION

NOTE: Please refer to Section 11 for detailed toxicological information.

Emergency Overview Caution! Moderate eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

Physical State gel
Odor slight, specific odour
Appearance white to beige
Routes of Exposure Ingestion, Eye contact, Skin contact
Immediate Effects
Eye Moderate eye irritation. Do not get in eyes.
Skin May cause slight irritation. Avoid contact with skin and clothing.



Material Safety Data Sheet

**BAYER ADVANCED DUAL ACTION ROACH KILLER
POWER PEN READY-TO-USE**

MSDS Number: 102000007347
MSDS Version 2.0

Ingestion Do not take internally.

Chronic or Delayed Long-Term This product or its components may have target organ effects.

SECTION 4. FIRST AID MEASURES

General When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.

Skin Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse out mouth and give water in small gulps to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Notes to Physician Treatment There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point > 93 °C / > 199 °F

Fire and Explosion Hazards In the event of fire the following can be released: carbon monoxide (CO)

Suitable Extinguishing Media water spray, carbon dioxide (CO2), foam, sand

Fire Fighting Instructions Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

Keep out of smoke. Fight fire from upwind position. Equipment or materials involved in pesticide fires may become contaminated.

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



Material Safety Data Sheet

**BAYER ADVANCED DUAL ACTION ROACH KILLER
POWER PEN READY-TO-USE**

MSDS Number: 102000007347
MSDS Version 2.0

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions** Avoid contact with spilled product or contaminated surfaces. Wear personal protective equipment. Unprotected persons must be kept away.
- Methods for Cleaning Up** Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.
- Additional Advice** Information regarding personal protective equipment, see section 8. Information regarding waste disposal, see section 13.

SECTION 7. HANDLING AND STORAGE

- Handling Procedures** Use only in area provided with appropriate exhaust ventilation.

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

Keep away from food, drink and animal feeding stuffs. Keep exposed gel away from open food and food contact surfaces.
- Storing Procedures** Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only.
- Work/Hygienic Procedures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.

Take off contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing. Launder clothing separately after use.
- Min/Max Storage Temperatures** 30 day average temperature is not to exceed 38°C (100°F)

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- General Protection** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

Train employees in safe use of the product. Follow all label instructions.



Material Safety Data Sheet

MSDS Number: 102000007347
MSDS Version 2.0

**BAYER ADVANCED DUAL ACTION ROACH KILLER
POWER PEN READY-TO-USE**

Engineering Controls	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
Eye/Face Protection	safety glasses
Hand Protection	Chemical resistant nitrile rubber gloves
Body Protection	Wear long-sleeved shirt and long pants and shoes plus socks.
Respiratory Protection	No personal respiratory protective equipment normally required.

Exposure Limits

Glycerine	56-81-5	ACGIH	TWA		10 mg/m3
			Form of Exposure	Mist.	
		OSHA Z1	PEL		5 mg/m3
			Form of Exposure	Respirable fraction.	
		OSHA Z1	PEL		15 mg/m3
			Form of Exposure	Total dust.	
		OSHA Z1A	TWA		5 mg/m3
			Form of Exposure	Respirable fraction.	
		OSHA Z1A	TWA		10 mg/m3
			Form of Exposure	Total dust.	
Sodium hydroxide	1310-73-2	US CA OEL	TWA PEL		5 mg/m3
			Form of Exposure	Respirable fraction.	
		US CA OEL	TWA PEL		10 mg/m3
			Form of Exposure	Total dust.	
		ACGIH	Ceiling		2 mg/m3
		NIOSH	Ceil_Time		2 mg/m3
OSHA Z1	PEL		2 mg/m3		
OSHA Z1A	Ceiling		2 mg/m3		
US CA OEL	Ceiling		2 mg/m3		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white to beige
Physical State	gel
Odor	slight, specific odour
pH	4.5 (5 %)
Specific Gravity	1.2 at 20 °C
Density	ca. 1.2 g/cm ³ at 20 °C
Water Solubility	miscible



Material Safety Data Sheet

MSDS Number: 102000007347
MSDS Version 2.0

**BAYER ADVANCED DUAL ACTION ROACH KILLER
POWER PEN READY-TO-USE**

Viscosity 126,000 mPa.s at 20 °C
Other Information Not readily flammable.

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable
Hazardous Reactions No hazardous reactions when stored and handled according to prescribed instructions.

SECTION 11. TOXICOLOGICAL INFORMATION

Only acute toxicity studies have been conducted on this product as formulated. The non-acute information pertains to the active ingredient, imidacloprid.

Acute Oral Toxicity male/female rat: LD50: > 5,000 mg/kg
Acute Dermal Toxicity male/female rat: LD50: > 5,000 mg/kg
Acute Inhalation Toxicity Not Applicable. No possibility of drift or off-placement desposition of the product from crack and crevice use since the formulation is a thick, syrup-based paste and the active ingredient is non-volatile (vapor pressure = 1.5E10(-9) mm @ 20°C).
Skin Irritation rabbit: Mild skin irritation.
Eye Irritation rabbit: Minimally irritating.
Sensitization guinea pig: Non-sensitizing.
Chronic Toxicity In chronic dietary studies in rats and dogs exposed to imidacloprid, the target organs were the thyroids and/or liver.

Assessment Carcinogenicity

In oncogenicity studies in rats and mice, imidacloprid was not considered carcinogenic in either species.

- ACGIH**
None.
- NTP**
None.
- IARC**
None.
- OSHA**
None.

Reproductive & REPRODUCTION: In a two-generation reproduction study in rats, imidacloprid



Material Safety Data Sheet

MSDS Number: 102000007347
MSDS Version 2.0

**BAYER ADVANCED DUAL ACTION ROACH KILLER
POWER PEN READY-TO-USE**

Developmental Toxicity was not a primary reproductive toxicant. Offspring exhibited reduced body weights at the high dose and in conjunction with maternal toxicity.

DEVELOPMENTAL TOXICITY: In developmental toxicity studies in rats and rabbits, there was no evidence of an embryotoxic or teratogenic potential for imidacloprid. In both species, developmental effects were observed only at high doses and in conjunction with maternal toxicity.

Neurotoxicity In acute and subchronic neurotoxicity screening studies in rats, imidacloprid produced slight neurobehavioral effects in each study at the highest dose tested. There were no correlating morphological changes observed in the neural tissues.

In a one-generation developmental neurotoxicity screening study in rats, offspring exposed to imidacloprid showed decreased body weights and motor activities. These effects occurred at the highest dose tested and in conjunction with maternal toxicity. There were no correlating morphological changes observed in the neural tissues.

Mutagenicity The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity to Fish Rainbow trout (*Oncorhynchus mykiss*)
LC50: 211 mg/l
Exposure time: 96 h
The value mentioned relates to the active ingredient imidacloprid.

Toxicity to Aquatic Plants *Desmodium subspicatus*
Growth rate
EC50: > 10 mg/l
Exposure time: 72 h
The value mentioned relates to the active ingredient imidacloprid.

Acute Toxicity to Aquatic Invertebrates Water flea (*Daphnia magna*)
EC50: 85 mg/l
Exposure time: 48 h
The value mentioned relates to the active ingredient imidacloprid.

Environmental Precautions Do not discharge into the drains/surface water/groundwater.



Material Safety Data Sheet

**BAYER ADVANCED DUAL ACTION ROACH KILLER
POWER PEN READY-TO-USE**

MSDS Number: 102000007347
MSDS Version 2.0

SECTION 13. DISPOSAL CONSIDERATIONS

- General Disposal Guidance** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Refer to the product label for other disposal instructions.
- Container Disposal** Do not re-use empty containers. Wrap container in several layers of newspaper and discard in trash.

SECTION 14. TRANSPORT INFORMATION

- DOT CLASSIFICATION:**
Not regulated for Domestic Surface Transportation
- FREIGHT CLASSIFICATION:**
Insecticides or Fungicides, N.O.I., other than poison

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 72155-70

US Federal Regulations

TSCA list

None.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

US States Regulatory Reporting

CA Prop65

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

None.

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental



Material Safety Data Sheet

**BAYER ADVANCED DUAL ACTION ROACH KILLER
POWER PEN READY-TO-USE**

MSDS Number: 102000007347
MSDS Version 2.0

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Reactivity - 1 Others - none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Re-numbered due to system update; Section Updated as needed.

Revision Date: 04/13/2006

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.