



## Material Safety Data Sheet

### BAYER ADVANCED HOME PEST CONTROL INDOOR & OUTDOOR INSECT KILLER READY-TO-USE

MSDS Number: 102000012003  
MSDS Version 2.0  
Revision Date: 01/23/2009

#### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name** BAYER ADVANCED HOME PEST CONTROL INDOOR & OUTDOOR INSECT KILLER READY-TO-USE  
**MSDS Number** 102000012003  
**EPA Registration No.** 72155-27

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>
beta-Cyfluthrin	68359-37-5	0.05

#### SECTION 3. HAZARDS IDENTIFICATION

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

**Emergency Overview** Caution! Harmful by inhalation and if swallowed. Causes eye irritation. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapour or mist. Wash thoroughly with soap and water after handling.

**Physical State** liquid

**Appearance** almost white

**Routes of Exposure** Ingestion, Inhalation, Eye contact, Skin contact

**Immediate Effects**

**Eye** Causes eye irritation. Avoid contact with eyes.

**Skin** May cause slight irritation. Avoid contact with skin and clothing.

**Ingestion** Harmful if swallowed. Do not take internally.

**Inhalation** Harmful if inhaled. Avoid inhalation of vapour or mist.



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**Potential Environmental Effect**      Highly toxic to aquatic invertebrates. Highly toxic to fish.

**SECTION 4. FIRST AID MEASURES**

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</b>	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.
<b>Skin</b>	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.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips 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.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Notes to Physician Treatment</b>	Treat symptomatically. There is no specific antidote.

**SECTION 5. FIRE FIGHTING MEASURES**

<b>Flash point</b>	> 93.3 °C / > 199.9 °F
<b>Suitable Extinguishing Media</b>	Water, Foam, Dry chemical
<b>Fire Fighting Instructions</b>	Keep out of smoke. Fight fire from upwind position. Cool closed containers/tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.  Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**



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- Personal Precautions**      Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
- Methods for cleaning up**      Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.
- Additional Advice**              Do not allow product to contact vegetation. Do not allow to enter soil, waterways or waste water canal. Use personal protective equipment.

**SECTION 7. HANDLING AND STORAGE**

- Storing Procedures**              Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.  
  
Protect from freezing.
- Work/Hygienic Procedures**              Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly with soap and water after handling.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- General Protection**              There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed.  
  
Avoid inhalation of vapour or mist.  
  
Avoid contact with skin and eyes.  
  
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
  
Do not allow children or pets to enter the treated area until it has dried.

**Exposure Limits**

beta-Cyfluthrin	68359-37-5	TX ESL	ST ESL	50 ug/m3
		TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3
		TX ESL	AN ESL	5 ug/m3
		OES BCS*		0.01 mg/m3

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"



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#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	almost white
<b>Physical State</b>	liquid
<b>pH</b>	7.8 - 8.2 at 25 °C
<b>Density</b>	approx. 1.00 g/cm <sup>3</sup> at 20 °C
<b>Viscosity</b>	2.0 - 3.0 mPa.s at 23 °C

#### SECTION 10. STABILITY AND REACTIVITY

<b>Hazardous Reactions</b>	Stable under normal conditions.
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#### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity studies for this product have been bridged from another product containing 20% of the active ingredient, Cyfluthrin. The non-acute information pertains to the active ingredients Beta-cyfluthrin technical, an enriched isomer of Cyfluthrin, and Cyfluthrin technical. Toxicology information on Cyfluthrin technical can be obtained by calling the Product Use Information number on page 1.

<b>Acute Oral Toxicity</b>	male rat: LD50: 3,084 mg/kg female rat: LD50: 1,733 mg/kg
<b>Acute Dermal Toxicity</b>	male/female combined rat: LD50: > 2,000 mg/kg
<b>Acute Inhalation Toxicity</b>	male/female combined rat: LC50: > 1.18 mg/l Exposure time: 4 h Determined in the form of dust. Highest attainable concentration. (actual)  male/female combined rat: LC50: > 4.72 mg/l Exposure time: 1 h Determined in the form of dust. Extrapolated from the 4 hr LC50. (actual)
<b>Skin Irritation</b>	rabbit: Slight irritation.
<b>Eye Irritation</b>	rabbit: Mild eye irritation.



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**Sensitization** guinea pig: Non-sensitizing.

**Assessment Carcinogenicity**

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

**Reproductive & Developmental Toxicity** DEVELOPMENTAL TOXICITY: Beta-cyfluthrin was not a primary developmental toxicant in rats. Developmental effects were observed but were considered secondary to maternal toxicity.

**Neurotoxicity** Beta-cyfluthrin produced slight transient neurobehavioral effects in acute, subchronic and developmental neurotoxicity screening studies in rats. These effects occurred at the highest dose tested and without correlating morphological changes in the neural tissues.

**Mutagenicity** Beta-cyfluthrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**SECTION 12. ECOLOGICAL INFORMATION**

**Environmental Precautions** Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance** It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Never place unused product down any indoor or outdoor drain.

**Container Disposal** Do not re-use empty containers. Wrap and discard in trash. Follow advice on product label and/or leaflet.



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#### SECTION 14. TRANSPORT INFORMATION

##### TRANSPORTATION CLASSIFICATION:

Not regulated for transportation

##### FREIGHT CLASSIFICATION:

Insecticides or Fungicides, N.O.I.; other than poison

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#### SECTION 15. REGULATORY INFORMATION

**EPA Registration No.** 72155-27

##### 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

beta-Cyfluthrin 68359-37-5 1.0%

##### 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

beta-Cyfluthrin 68359-37-5 NJ

##### Canadian Regulations

###### Canadian Domestic Substance List

None.

##### Environmental

###### CERCLA

None.

###### Clean Water Section 307 Priority Pollutants

None.

###### Safe Drinking Water Act Maximum Contaminant Levels

None.



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**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: Updated due to new system and numbering scheme. Updated for general editorial purposes.

Revision Date: 01/23/2009

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