



Material Safety Data Sheet

Bayer Advanced Indoor & Outdoor Home Pest Control

MSDS Version: 1.2

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name	Bayer Advanced Indoor & Outdoor Home Pest Control
Chemical Name	
Common Name	
MSDS Number	2003
Chemical Family	
Chemical Formulation	
EPA Registration No.	72155-27
Product Use	Insecticide, For Indoor and Outdoor Use: Kills a Wide Range of Crawling, Flying and Wood-Infesting Pests around basements, foundations and baseboards.

Bayer Environmental Science
95 Chestnut Ridge Road
Montvale, NJ 07645
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>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
Beta-cyfluthrin Technical	68359-37-5	0.0400	0.0600

SECTION 3. HAZARDS IDENTIFICATION

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

<u>Emergency Overview</u>	Caution! Harmful by inhalation and if swallowed. Causes eye irritation. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.
Physical State	Liquid, slightly viscous
Appearance	White Opaque
Routes of Exposure	Ingestion, Inhalation, Skin Absorption
Immediate Effects	
Eye	Causes eye irritation. Avoid contact with the eyes.

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Skin	May cause slight irritation.
Ingestion	Harmful if swallowed. Do not take internally.
Inhalation	Harmful if inhaled. Do not breathe vapours or spray mist.

SECTION 4. FIRST AID MEASURES

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 poison control center or doctor for treatment advice.
Skin	Get medical attention if irritation develops and persists.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. 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.
Inhalation	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 poison control center or doctor for further treatment advice.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point	> 93.3 °C / > 199.9 °F
Suitable Extinguishing Media	Water, Foam, Dry chemical
Fire Fighting Instructions	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Equipment or materials involved in pesticide fires may become contaminated. Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

General and Disposal	Keep unnecessary people away, isolate hazard area and deny entry. Avoid contact with spilled product or contaminated surfaces.
Land Spill or Leaks	Avoid breathing vapors and avoid skin contact. Use personal protective equipment. Dike contaminated area with absorbent granules, soil, sand, etc. Carefully sweep up absorbed spilled material. Place in covered container for reuse or disposal. Scrub contaminated area with soap and water. Rinse with water. Use dry absorbent material such as clay granules to absorb and collect wash solution for proper disposal. Contaminated soil may have to be removed and disposed. Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

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SECTION 7. HANDLING AND STORAGE

Handling Procedures	Do not apply as a space spray while food processing is underway. When using in animal quarters, do not apply directly to food, water or food supplements. Do not allow children and pets to enter the treated area until it has dried.
Storing Procedures	Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container and out of the reach of children, preferably in a locked storage area. Do not freeze.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection	There are no known hazards associated with this product when used according to the label directions. At the same time, the following guidelines should be used. 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, or using the toilet. Do not allow children and pets to enter the treated area until it has dried.
Exposure Limits	None known.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White Opaque
Physical State	Liquid, slightly viscous
pH	7.8 - 8.2 at 25 °C
Specific Gravity	0.999 at 20 °C
Viscosity	2.0 - 3.0 mPa.s 23 °C

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage 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

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be obtained by calling the Product Use Information number on page 1.

Acute Oral Toxicity Male Rat: LD50: 3,084 mg/kg

Female Rat: LD50: 1,733 mg/kg

Acute Dermal Toxicity Male/Female Rat: LD50: > 2,000 mg/kg

Acute Inhalation Toxicity Male/Female Rat: LC50: 4-hr exposure to dust: > 1.18 mg/l (actual)
Maximum attainable concentration.

Male/Female Rat: 1-hr exposure to dust (extrapolated from 4-hr LC50): > 4.72 mg/l (actual)

Skin Irritation Rabbit: slight irritation

Eye Irritation Rabbit: Mildly irritating.
Irritation is transient.

Sensitization Guinea pig: non-sensitizing

Subchronic Toxicity BETA-CYFLUTHRIN TECHNICAL

In a subchronic dietary study, dogs treated with beta-cyfluthrin, exhibited vomiting, diarrhea, decreased body weight gain and clinical neurological symptoms at the highest dose level (360 ppm).

In a subchronic dietary study in rats treated with beta-cyfluthrin, effects included reduced body weight gains and feed consumption, uncoordinated gait, and skin injuries of the neck and head from excessive preening due to the local irritant effect of the test material.

In a 4-week inhalation study in rats exposed to beta-cyfluthrin, effects observed included ungroomed fur, piloerection, hyper- and hypoactivity, reduced body weight gains, hematological changes and reduced organ weights (thymus, spleen).

Assessment Carcinogenicity

ACGIH

None

NTP

None

IARC

None

OSHA

None

Reproductive & Developmental Toxicity

BETA-CYFLUTHRIN TECHNICAL

DEVELOPMENTAL TOXICITY: In an oral developmental toxicity study in rats treated with beta-cyfluthrin, decreased fetal body weights and an increased incidence of skeletal findings were observed at the maternally toxic and lethal high dose level (40 mg/kg).

Neurotoxicity

BETA-CYFLUTHRIN TECHNICAL

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

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in either study.

Mutagenicity

BETA-CYFLUTHRIN TECHNICAL

Numerous in vitro and in vivo mutagenicity studies have been conducted on beta-cyfluthrin, all of which are negative.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Precautions

Do not apply directly to water. This product is extremely toxic to fish and aquatic invertebrates. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product only 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 any applicable state or local guidelines. Never place unused product down any indoor or outdoor drain.

Container Disposal

Do not re-use empty containers. Wrap container in several layers of newspaper and discard in trash.

RCRA Classification

Not Regulated under this Statute

SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:

Not regulated for transportation

FREIGHT CLASSIFICATION:

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

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

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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.

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US State right-to-know ingredients

None

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

International Regulations

EU Classification

None

European Inventory of Existing Commercial Substances (EINECS)

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SECTION 16. OTHER INFORMATION

NFPA	Health 1	Flammability 1	Reactivity 1	Others None
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MSDS REVISION INDICATOR: Section 1: Revise Product name

Approval Date: 07/27/2004

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