



## Bayer Advanced Lawn Power Force Kills Bugs Fast Multi-Insect Killer Ready-To-Spread Granules

MSDS Version 1.0

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name** Bayer Advanced Lawn Power Force Kills Bugs Fast Multi-Insect Killer Ready-To-Spread Granules

**Chemical Name**

**Synonym**

**MSDS Number** 2002

**Chemical Family**

**Chemical Formulation**

**EPA Registration No.**

**Canadian Registrat. No.**

Bayer Environmental Science  
95 Chestnut Ridge Road  
Montvale, NJ 07645  
USA

For Product Use Information: (800)331-2867 Monday through Friday(CRLF) 8:00AM-4:30PM(CRLF) For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day(CRLF) For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

**Product Use Description** Insecticide, for use on: Lawns and Around Homes

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>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
Ammonium Sulfate	7783-20-2	98.3000	98.7000

### SECTION 3. HAZARDS IDENTIFICATION

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

**Emergency Overview** Caution! Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

**Physical State** Granules

**Appearance** Cream

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<b>Routes of Exposure</b>	Ingestion, inhalation and skin contact.
<b>Immediate Effects</b>	
<b>Eye</b>	Causes moderate eye irritation. Avoid contact with eyes.
<b>Skin</b>	May cause slight irritation.
<b>Ingestion</b>	Harmful if swallowed. Do not take internally.
<b>Inhalation</b>	Avoid breathing dust.

### SECTION 4. FIRST AID MEASURES

<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 poison control center or doctor for treatment advice.
<b>Skin</b>	Seek medical attention if irritation develops or persists.
<b>Ingestion</b>	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 told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>Inhalation</b>	Move person to fresh air. Seek medical attention if breathing difficulties occur.

### SECTION 5. FIRE FIGHTING MEASURES

<b>Flash Point</b>	Not applicable
<b>Suitable Extinguishing Media</b>	Water, Foam, Dry chemical
<b>Fire Fighting Instructions</b>	Keep out of smoke. Cool exposed containers with water spray. Fight fire from upwind position. Use self-contained breathing equipment. Contain runoff to prevent entry into sewers or waterways. Equipment or materials involved in pesticide fires may become contaminated.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>General and Disposal</b>	Keep unnecessary people away, isolate hazard area and deny entry. Do not walk through spilled material.
<b>Land Spill or Leaks</b>	Avoid generating dust (a fine water spray mist, plastic film cover, or floor sweeping compound may be used if necessary). Avoid breathing dusts and skin contact. Use recommended protective equipment while carefully sweeping up

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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.

### SECTION 7. HANDLING AND STORAGE

**Handling Procedures** Food utensils such as teaspoons or measuring cups must not be used for food purposes after use in measuring pesticides.

**Storing Procedures** Store in a cool, dry area. Store in original container and out of the reach of children, preferably in a locked storage area.

### 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 breathing dust.

Avoid contact with skin and eyes.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Do not allow children or pets on treated area until it has been watered and allowed to dry.

#### Exposure Limits

None known.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Cream

**Physical State** Granules

**pH** 7.0 - 7.5 at 25 °C  
(as aqueous suspension)

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**Bulk Density** 45 - 65 lbs/cubic feet

### SECTION 10. STABILITY AND REACTIVITY

**Chemical Stability** This material is stable under normal handling and storage conditions described in Section 7.

### SECTION 11. TOXICOLOGICAL INFORMATION

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

Female Rat: LD50: 1,733 mg/kg

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

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

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

**Skin Irritation** Rabbit: Slight dermal irritant.

**Eye Irritation** Rabbit: Mild irritation to the iris and conjunctiva was observed with all irritation resolving with 7 days.

**Sensitization** Guinea pig: Not a dermal sensitizer.

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.

**Sub-Chronic 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).

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### 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 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

This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of equipment wastewaters. 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

Completely empty container into application equipment. Do not re-use empty containers. Wrap container and put in trash collection.

### RCRA Classification

Not Regulated under this Statute

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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

### SECTION 15. REGULATORY INFORMATION

#### US Federal Regulations

EPA Registration No.

TSCA list

None

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

SARA Title III - section 313 - toxic chemical release reporting

Beta-cyfluthrin Technical

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 Technical

68359-37-5

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required  
NJ, PA, RI

Ammonium Sulfate

7783-20-2

#### Canadian Regulations

Canadian Registrat. No.

Canadian Domestic Substance List

None

#### Environmental

CERCLA

None

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### 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)

None

## SECTION 16. OTHER INFORMATION

	Health	Flammability	Reactivity	Others
NFPA	1	0	1	

MSDS REVISION INDICATOR: New MSDS.

Print Date: 10/02/2003

Supersedes MSDS, which is older than: 10/02/2003

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