Bayer Advanced Lawn Power Force Kills Bugs Fast Ant Killer Ready-To-Spread Granules

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Bayer Advanced Lawn Power Force Kills Bugs Fast Ant Killer Ready-To-Spread Granules

Chemical Name: 

Synonym: 

MSDS Number: 2029

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

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS No.</th>
<th>Concentration % by Weight</th>
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<tbody>
<tr>
<td></td>
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<td>Minimum</td>
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<tr>
<td>Beta-cyfluthrin Technical</td>
<td>68359-37-5</td>
<td>0.0400</td>
</tr>
<tr>
<td>Ammonium Sulfate</td>
<td>7783-20-2</td>
<td>98.3000</td>
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SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview: Caution! Harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye injury. Avoid breathing dusts. Avoid contact with skin, eyes and clothing. Remove contaminated clothing and wash clothing before reuse.

Physical State: Granules

Appearance: Cream
Material Safety Data Sheet

Bayer Advanced Lawn Power Force Kills Bugs Fast Ant Killer Ready-To-Spread Granules

Routes of Exposure
Inhalation. Ingestion, eye and skin contact.

Immediate Effects

Eye
Causes moderate eye irritation. Avoid contact with eyes.

Skin
May cause slight irritation.

Ingestion
Harmful if swallowed. Do not take internally.

Inhalation
Harmful if inhaled. Do not breathe dust.

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
Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

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 told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Inhalation
Move person 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
Not applicable

Suitable Extinguishing Media
Water, Foam, Dry chemical

Fire Fighting Instructions
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

General and Disposal
Keep unnecessary people away, isolate hazard area and deny entry. Do not walk through spilled material.
Land Spill or Leaks
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 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
Material Safety Data Sheet

Bayer Advanced Lawn Power Force Kills Bugs Fast Ant Killer Ready-To-Spread Granules

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

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

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SECTION 10. STABILITY AND REACTIVITY

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

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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).

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 bag into application equipment. Do not reuse empty bag. Place bag in trash.

RCRA Classification
Not Regulated under this Statute
Material Safety Data Sheet

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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
Ammonium Sulfate 7783-20-2

Canadian Regulations
Canadian Registrat. No.
None
Canadian Domestic Substance List
None

Environmental
CERCLA
None
Material Safety Data Sheet

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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

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<th>Reactivity</th>
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MSDS REVISION INDICATOR: New MSDS.

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

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