



**Material Safety Data Sheet**

**BAYER ADVANCED BERMUDAGRASS CONTROL FOR LAWNS READY-TO-SPRAY**

MSDS Number: 102000016440  
 MSDS Version 1.0  
 Revision Date: 10/13/2006

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

**Product Name** BAYER ADVANCED BERMUDAGRASS CONTROL FOR LAWNS READY-TO-SPRAY  
**MSDS Number** 102000016440  
**EPA Registration No.** 72155-74

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>
Fenoxaprop-P-ethyl	71283-80-2	0.41
Isotridecanol, ethoxylated	9043-30-5	1.00

**SECTION 3. HAZARDS IDENTIFICATION**

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

**Emergency Overview** Caution! Harmful if swallowed. Moderate eye irritation. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist.

Toxic to fish. Toxic to aquatic invertebrates.

**Physical State** clear to slightly turbid

**Appearance** off-white

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

**Immediate Effects**

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

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



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**Ingestion** Harmful if swallowed. 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 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.
- 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 physician or poison control center immediately.
- 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** > 100 °C / 212 °F
- Suitable Extinguishing Media** foam, carbon dioxide (CO2), dry chemical, water spray
- Fire Fighting Instructions**

Keep out of smoke. Fight fire from upwind position. Cool containers / tanks 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.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.



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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal Precautions**      Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
  
- Methods for Cleaning Up**      Take up with absorbent material (e.g. sand, diatomaceous earth or a proprietary absorbent material). Pick up and fill the product into a tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.
  
- Additional Advice**              Use personal protective equipment. Do not allow product to enter streams, sewers or other waterways. Do not allow product to contact vegetation.

**SECTION 7. HANDLING AND STORAGE**

- Handling Procedures**          Keep away from food, drink and animal feeding stuffs.
  
- Storing Procedures**            Do not freeze. 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. 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.
  
- Eye/Face Protection**          protective eyewear
  
- Body Protection**                Wear long-sleeved shirt and long pants and shoes plus socks.

**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.	



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OSHA Z1A	TWA	10 mg/m3
Form of Exposure	Total dust.	
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.	

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	off-white
<b>Physical State</b>	clear to slightly turbid
<b>pH</b>	7 - 7.5 (100 %) at 20 °C
<b>Density</b>	ca. 1.01 g/cm <sup>3</sup> at 20 °C

**SECTION 10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable under normal conditions.
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**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity data for this product have been bridged from a similar formulation containing a higher percentage of the active ingredient, Fenoxaprop-P-ethyl. The non-acute information pertains to technical-grade Fenoxaprop-P-ethyl.

<b>Acute Oral Toxicity</b>	male/female rat: LD50: > 5,000 mg/kg
<b>Acute Dermal Toxicity</b>	male/female rat: LD50: > 4,000 mg/kg
<b>Acute Inhalation Toxicity</b>	male/female rat: LC50: > 10.7 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.
	male/female rat: LC50: > 20 mg/l Exposure time: 1 h Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50.
<b>Skin Irritation</b>	rabbit: Slight irritation.
<b>Eye Irritation</b>	rabbit: Moderate eye irritation.
<b>Sensitization</b>	guinea pig: Non-sensitizing.



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**Chronic Toxicity** Fenoxaprop-P-ethyl caused liver and/or adrenal effects in long-term dietary studies in rats, mice and dogs.

**Assessment Carcinogenicity**

Fenoxaprop-P-ethyl caused liver and adrenal gland tumors at the highest dose tested in an oncogenicity study in mice. However, there was no evidence of carcinogenicity in a combined chronic/carcinogenicity study in rats treated with Fenoxaprop-P-ethyl.

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Reproductive &  
Developmental Toxicity**

**REPRODUCTION:** In a two-generation reproduction study in rats, Fenoxaprop-P-ethyl did not cause any effects on reproductive parameters. Pup body weights were decreased at maternally toxic doses.

**DEVELOPMENTAL TOXICITY:** Fenoxaprop-P-ethyl is not a primary developmental toxicant in rats and rabbits. Developmental effects were observed in both species but were considered secondary to maternal toxicity.

**Mutagenicity**

Fenoxaprop-P-ethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo mutagenicity studies

**SECTION 12. ECOLOGICAL INFORMATION**

**Environmental  
Precautions**

Do not apply directly to water. Do not apply when weather conditions favor runoff or drift. Drift or run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Drift or runoff may adversely affect non-target plants. 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.



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**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. Place empty container in trash.

**SECTION 14. TRANSPORT INFORMATION**

**TRANSPORTATION CLASSIFICATION:**  
Not regulated for all mode of transportation

**FREIGHT CLASSIFICATION:**  
Insecticides or Fungicides, N.O.I.: other than poison

**SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 72155-74

**US Federal Regulations**

**TSCA list**

Isotridecanol, ethoxylated 9043-30-5

**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**

Isotridecanol, ethoxylated 9043-30-5

**Environmental**



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**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations**

**European Inventory of Existing Commercial Substances (EINECS)**

Fenoxaprop-P-ethyl

71283-80-2

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**SECTION 16. OTHER INFORMATION**

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NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 0      Reactivity - 0      Others - none

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

Reason to Revise: New Material Safety Data Sheet.

Revision Date: 10/13/2006

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