



Material Safety Data Sheet

BAYER ADVANCED CRABGRASS KILLER FOR LAWNS  
READY-TO-SPRAY

MSDS Number: 102000014567

MSDS Version 1.1

Revision Date: 05/17/2010

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name BAYER ADVANCED CRABGRASS KILLER FOR LAWNS READY-TO-SPRAY  
MSDS Number 102000014567  
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. HAZARDS IDENTIFICATION

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

**Emergency Overview** Caution! Hazard to humans and domestic animals. Harmful if swallowed. Causes eye irritation. Avoid contact with skin, eyes and clothing. Do not allow children or pets to enter the treated area until it has dried.

**Physical State** liquid  
**Appearance** white to beige  
**Exposure routes** Eye contact, Skin contact, Ingestion, Inhalation  
**Immediate Effects**  
**Eye** Moderate eye irritation Do not get in eyes.  
**Skin** May cause slight irritation. Avoid contact with skin.  
**Ingestion** Harmful if swallowed. Do not take internally.  
**Potential Environmental Effect** Toxic to fish and aquatic invertebrates.



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**SECTION 3. 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
Naphthalene	91-20-3	0.35

**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</b>	
<b>Hazards</b>	Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.
<b>Treatment</b>	Treat symptomatically. There is no specific antidote.

**SECTION 5. FIRE FIGHTING MEASURES**

<b>Flash point</b>	no data available
<b>Suitable extinguishing media</b>	Foam, Carbon dioxide (CO2), Dry chemical, Water spray



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**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.

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

**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**                      Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

**Additional advice**                              Use personal protective equipment. Do not allow product to contact vegetation.

**SECTION 7. HANDLING AND STORAGE**

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

Keep away from food, drink and animal feedingstuffs.

**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
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		OSHA Z1	PEL	5 mg/m3
		OSHA Z1	PEL	15 mg/m3
		OSHA Z1A	TWA	5 mg/m3
		OSHA Z1A	TWA	10 mg/m3
		TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3
			TWA	10 mg/m3
			TWA	5 mg/m3
Naphthalene	91-20-3	ACGIH	TWA	10 ppm
		ACGIH	STEL	15 ppm
		NIOSH	REL	10 ppm
		NIOSH	STEL	15 ppm
		OSHA Z1	PEL	10 ppm
		OSHA Z1A	TWA	10 ppm
		OSHA Z1A	STEL	15 ppm
		US CA OEL	TWA PEL	10 ppm
		US CA OEL	STEL	15 ppm
		TX ESL	ST ESL	440 ug/m3
		TX ESL	AN ESL	44 ug/m3
Fenoxaprop-P-ethyl	71283-80-2	OES BCS*	TWA	10 ppm
		OES BCS*	TWA	2.6 mg/m3

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	white to beige
<b>Physical State</b>	liquid
<b>pH</b>	7.0 - 9.0 (100 %)
<b>Density</b>	1.02 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.



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**Acute oral toxicity** male/female combined rat: LD50: > 5,000 mg/kg

**Acute dermal toxicity** male/female combined rat: LD50: > 4,000 mg/kg

**Acute inhalation toxicity** male/female combined rat: LC50: > 10.7 mg/l  
Exposure time: 4 h  
Determined in the form of liquid aerosol.

male/female combined rat: LC50: > 20 mg/l  
Exposure time: 1 h  
Determined in the form of liquid aerosol.  
Extrapolated from the 4 hr LC50.

**Skin irritation** rabbit: slight irritation

**Eye irritation** rabbit: Moderate eye irritation

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

**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 mice. However, there was no evidence of carcinogenicity in a combined chronic/carcinogenicity study in rats treated with Fenoxaprop-P-Ethyl.

**ACGIH**

Naphthalene 91-20-3 Group A4

**NTP**

Naphthalene 91-20-3

**IARC**

Naphthalene 91-20-3 Overall evaluation: 2B

**OSHA**

None.

**Reproductive toxicity** REPRODUCTION: Fenoxaprop-p-ethyl was not a reproductive toxicant in a two-generation study in rats.

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.

**Neurotoxicity** Fenoxaprop-p-ethyl neurotoxicity studies are not required at this time.

**Mutagenicity** Fenoxaprop-p-ethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.



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**SECTION 12. ECOLOGICAL INFORMATION**

**Environmental precautions** Apply this product as specified on the label. Drift or runoff from treated areas may adversely affect non-target plants. Do not apply when weather conditions favor runoff or drift. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not allow to get into surface water, drains and ground water. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

**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.

**RCRA Information** Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

**SECTION 14. TRANSPORT INFORMATION**

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

**SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 72155-74

**US Federal Regulations**

**TSCA list**

Naphthalene 91-20-3

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

Naphthalene 91-20-3

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**



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Naphthalene 91-20-3 0.1%  
**US States Regulatory Reporting**  
**CA Prop65**

This product contains a chemical known to the State of California to cause cancer.  
Naphthalene 91-20-3

This product does not contain any substances known to the State of California to cause reproductive harm.

**US State Right-To-Know Ingredients**

Naphthalene 91-20-3 CA, CT, IL, MN, NJ, PA, RI

**Canadian Regulations**

**Canadian Domestic Substance List**

Naphthalene 91-20-3

**Environmental**

**CERCLA**

Naphthalene 91-20-3 100 lbs

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**International Regulations**

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

Naphthalene 91-20-3

**SECTION 16. OTHER INFORMATION**

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: The following sections have been revised: Section 8: Exposure Controls / Personal Protection.

Revision Date: 05/17/2010

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