

Material Safety Data Sheet

BAYER ADVANCED BERMUDAGRASS CONTROL FOR LAWNS READY-TO-SPRAY

MSDS Number: 102000014567 MSDS Version 1.0 Revision Date: 01/29/2007

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name BAYER ADVANCED BERMUDAGRASS CONTROL 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. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Average % by Weight
Fenoxaprop-P-ethyl	71283-80-2	0.41
Naphthalene	91-20-3	0.35

SECTION 3. 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

Odor aromatic

Appearance off-white

Routes of Exposure 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.



MSDS Version 1.0

MSDS Number: 102000014567

Material Safety Data Sheet

BAYER ADVANCED BERMUDAGRASS CONTROL FOR LAWNS READY-TO-SPRAY

Ingestion Harmful if swallowed. Do not take internally.

Potential Environmental

Effect

Toxic to fish and aquatic invertebrates.

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

Hazards Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.

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 no data available

Suitable Extinguishing

Media

Foam, Carbon dioxide (CO2), Dry chemical, Water spray

Fire Fighting Instructions

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



Material Safety Data Sheet BAYER ADVANCED BERMUDAGRASS CONTROL FOR LAWNS READY-TO-SPRAY

MSDS Number: 102000014567 MSDS Version 1.0

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). 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 Do not freeze. Store in original container and out of the reach of children,

preferably in a locked storage area. 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

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.

OSHA Z1A TWA 10 mg/m3



Material Safety Data Sheet

Naphthalene

BAYER ADVANCED BERMUDAGRASS CONTROL FOR LAWNS READY-TO-SPRAY

91-20-3

MSDS Number: 102000014567 MSDS Version 1.0

. cim or expectine		i otai aaoti		
	US CA OEL	TWA PEL		5 mg/m3
	Form of exposure	Э	Respirable fraction.	•
	US CA OEL	TWA PEL	•	10 mg/m3
	Form of exposure	Э	Total dust.	
	ACGIH	TWA		10 ppm
	ACGIH	STEL		15 ppm
	NIOSH	REL	10 ppm	50 mg/m3
	NIOSH	STEL	15 ppm	75 mg/m3
	OSHA Z1	PEL	10 ppm	50 mg/m3

Form of exposure

Total dust

OSHA Z1A TWA 10 ppm 50 mg/m3 15 ppm 75 mg/m3 OSHA Z1A STEL 50 mg/m3 US CA OEL TWA PEL 10 ppm US CA OEL STEL 15 ppm 75 mg/m3

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance off-white

Physical State liquid

Odor aromatic

pH 7 - 9 (100 %) at 20 °C

Density approx. 1.01 g/cm³ at 20 °C

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

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.

Acute Oral Toxicity male/female combined rat: LD50: > 5,000 mg/kg

Acute Dermal Toxicity male/female combined rat: LD50: > 4,000 mg/kg



MSDS Version 1.0

MSDS Number: 102000014567

Material Safety Data Sheet

BAYER ADVANCED BERMUDAGRASS CONTROL FOR LAWNS READY-TO-SPRAY

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.

Sensitization 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 & Developmental 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.

Mutagenicity Fenoxaprop-P-ethyl was not mutagenic or genotoxic in a battery of in vitro and in

vivo tests.

SECTION 12. ECOLOGICAL INFORMATION



Material Safety Data Sheet

BAYER ADVANCED BERMUDAGRASS CONTROL FOR LAWNS READY-TO-SPRAY

MSDS Number: 102000014567 MSDS Version 1.0

Environmental Precautions

Do not apply when weather conditions favor runoff or drift. 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. 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. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites.

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 Classification

The RCRA Classifications may be on the individual component(s) and not

necessarily on the product as a whole.

91-20-3 Naphthalene

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous

Wastes and Appendix VIII Hazardous Constituents (40 CFR 261): U165

91-20-3 Naphthalene

US. EPA Resource Conservation and Recovery Act (RCRA) U List of Hazardous Wastes (40

CFR 261.33(f) and 40 CFR 302 [CERCLA]): U165

SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION: Not regulated for shipment by any mode

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

Naphthalene 91-20-3



Material Safety Data Sheet

BAYER ADVANCED BERMUDAGRASS CONTROL FOR LAWNS READY-TO-SPRAY

MSDS Number: 102000014567 MSDS Version 1.0

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

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)

Fenoxaprop-P-ethyl 71283-80-2 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: New Material Safety Data Sheet

Revision Date: 01/29/2007

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.