



Material Safety Data Sheet

ACCLAIM® EXTRA HERBICIDE

MSDS Number: 102000005372

MSDS Version 2.0

Revision Date: 01/17/2006

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name ACCLAIM® EXTRA HERBICIDE
MSDS Number 102000005372
Chemical Family benzoxazole
EPA Registration No. 432-950

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	6.59
Naphthalene	91-20-3	5.66

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.

Physical State liquid

Appearance white to beige

Routes of Exposure Ingestion, Inhalation, Skin contact, Skin Absorption

Immediate Effects

Eye Moderate eye irritation. Do not get in eyes.

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

Ingestion Small amounts of the solvent in this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury.

Inhalation High vapor/aerosol concentrations (greater than approximately 1,000 ppm) are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects.



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Chronic or Delayed Long-Term This product contains ingredients that are considered to be probable or suspected human carcinogens (see Section 11 - Chronic). 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 poison control center or doctor for treatment advice.
Skin	Take off all contaminated clothing immediately. Rinse immediately with plenty of water for at least 15 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 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 poison control center or doctor for further treatment advice.
Notes to Physician	
Signs and Symptoms	Inhalation of high vapour concentrations can cause CNS-depression and narcosis. Symptoms of overexposure include headache, nausea, loss of appetite.
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	dry chemical, carbon dioxide (CO2), foam, water spray



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Fire Fighting Instructions

Keep people away from and upwind of spill/leak. Keep out of smoke. Fight fire from upwind position. In the event of fire and/or explosion do not breathe fumes. Cool closed containers exposed to fire with water spray. Dike area to prevent runoff and contamination of water sources. Equipment or materials involved in pesticide fires may become contaminated.

Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Isolate hazard area. Keep unauthorized people away. 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). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional Advice

Use personal protective equipment. Do not allow material to enter streams, sewers, or other waterways or contact vegetation.

SECTION 7. HANDLING AND STORAGE

Handling Procedures

Avoid contact with skin, eyes and clothing. Handle and open container in a manner as to prevent spillage.

Storing Procedures

Do not contaminate water, food, or feed by storage or disposal.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Work/Hygienic Procedures

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

Take off contaminated clothing and shoes immediately. Then wash thoroughly and put on clean clothing. Launder clothing separately after use.

Min/Max Storage Temperatures

Do not transport or store below -12 °C / 10 °F
Do not transport or store above 38 °C / 100 °F

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General Protection

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.



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Follow all label instructions. Train employees in safe use of the product.

Engineering Controls Ensure adequate ventilation, especially in confined areas. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

Eye/Face Protection safety glasses, in case of increased risk, also a face shield or goggles

Hand Protection Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)

Body Protection Wear long-sleeved shirt and long pants and shoes plus socks.

Respiratory Protection When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or Industry recommendations.

Exposure Limits

Naphthalene	91-20-3	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
		OSHA Z1A	TWA	10 ppm 50 mg/m3
		OSHA Z1A	STEL	15 ppm 75 mg/m3
		US CA OEL	TWA PEL	10 ppm 50 mg/m3
		US CA OEL	STEL	15 ppm 75 mg/m3
		Glycerine	56-81-5	ACGIH
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
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

Appearance white to beige

Physical State liquid



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Density ca. 1.033 g/cm³ at 20 °C

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

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

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

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

Acute Inhalation Toxicity male/female rat: LC50: > 10.7 mg/l
Exposure time: 4 h
Determined in the form of liquid aerosol.
(actual)

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

Skin Irritation rabbit: Slight irritation.

Eye Irritation rabbit: Moderate eye irritation.

Sensitization guinea pig: Non-sensitizing.

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

Assessment Carcinogenicity

Fenoxaprop-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-ethyl.

ACGIH

Naphthalene 91-20-3 Group A4

NTP

Naphthalene 91-20-3

IARC

Naphthalene 91-20-3 Overall evaluation: 2B

OSHA



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None.

Reproductive & Developmental Toxicity

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

DEVELOPMENTAL TOXICITY: Fenoxaprop-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

Toxic to fish and aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below mean high water mark. Do not apply when weather conditions favor runoff or drift. 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

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal

Triple rinse containers. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

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



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SECTION 14. TRANSPORT INFORMATION

TRANSPORTATION CLASSIFICATION:
Not regulated for shipment by any mode of transportation

FREIGHT CLASSIFICATION:
Compounds, Tree or Weedkilling, N.O.I., other than poison; Having a density of greater than 20 LBS. per cubic foot

SECTION 15. REGULATORY INFORMATION

EPA Registration No. 432-950

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

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)



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Fenoxaprop-P-ethyl
Naphthalene

71283-80-2
91-20-3

SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

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

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

Reason to Revise: Re-numbered due to system update; Sections updated as needed.

Revision Date: 01/17/2006

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