



**HASBROUCK HEIGHTS BOARD OF EDUCATION**  
**379 BOULEVARD**  
**HASBROUCK HEIGHTS, NJ 07604**

Hasbrouck Heights' 2023-2024 Turf IPM program is compliant with the Integrated Pest Management Act. Trained technicians will monitor insect & weed populations and once certain thresholds are met, we will apply low impact pesticides or alternative products that can control unwanted pests. This approach allows Perennial to minimize the pesticides used by only applying pesticides when and where they are needed.

The United States Environmental Protection Agency (EPA) and the New Jersey Department of Environmental Protection (DEP) register pesticides to determine that the use of a pesticide in accordance with instructions printed on the label does not pose an unreasonable risk to human health and the environment. Nevertheless, the EPA and DEP cannot guarantee that registered pesticides do not pose any risk to human health, thus unnecessary exposure to pesticides should be avoided. The EPA has issued the statement that where possible, persons who are potentially sensitive, such as pregnant women, infants, and children, should avoid unnecessary pesticide exposure.

As part of the New Jersey Integrated Pest Management Act (C.13:1F-24), annual notification of pesticides used on school property must be distributed to parents, guardians and all school employees. During the period beginning March 15, 2024 the following materials will be applied at the Hasbrouck Heights Schools:

<b>Material Name:</b>	<b>EPA Registration #</b>
Prodiamine	10404-114
PowerZone	2217-834
Acelepryn	100-1489-961
Cheetah Pro	228-743

The labels and Safety Data Sheets are available for review by a parent, guardian, staff member, or student attending the school.

If you have any questions or concerns, please contact the IPM Coordinator at the contact information:

IPM Coordinator: Robert Brown  
Telephone #: 201-393-8198  
Address: 379 Boulevard Hasbrouck Heights NJ, 07604

## **Program Evaluation**

A representative from Perennial Services will meet with the School Official's on an annual basis to evaluate and refine the Turf Pest Management Program to maximize the plan's effectiveness and to ensure that we are minimizing pesticide use while, at the same time, **ensuring the safety of our students by providing healthy and safe environment**. The School IPM Coordinator will then be responsible for presenting this information to the School IPM committee members to ensure agreement with the pest management program.

Daniel Stapinski

Perennial Services LLC

# MATERIAL SAFETY DATA SHEET



Emergency Phone: 800-992-5994  
Dow AgroSciences LLC  
Indianapolis, IN 46268

## VISTA\* XRT HERBICIDE

Effective Date: 08-May-08  
Product Code: 116392

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT:** Vista\* XRT Herbicide

#### COMPANY IDENTIFICATION:

Dow AgroSciences LLC  
9330 Zionsville Road  
Indianapolis, IN 46268-1189

### 2. HAZARDOUS IDENTIFICATIONS:

#### EMERGENCY OVERVIEW

Clear pale yellow liquid with an aromatic odor. May cause eye and skin irritation. Toxic to aquatic organisms.

**EMERGENCY PHONE NUMBER:** 800-992-5994

### 3. COMPOSITION/INFORMATION ON INGREDIENTS:

Component	CAS Number	W/W%
Fluroxypyr-meptyl	81406-37-3	45.5
Naphthalene	91-20-3	0.5
N-methylpyrrolidinone	872-50-4	0.1
Balance		53.9

### 4. FIRST AID:

**EYE:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes and then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**SKIN:** Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Items which cannot be decontaminated, including leather articles such as shoes, belts, and watchbands should be disposed of properly.

**INGESTION:** Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. If person is not breathing, call an emergency responder or ambulance and then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). If breathing is difficult, oxygen should be administered by qualified personnel.

**NOTE TO PHYSICIAN:** Maintain adequate ventilation and oxygenation of the patient. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. The decision of whether to induce vomiting or not should be made by a physician. Skin contact may aggravate preexisting dermatitis. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5. FIRE FIGHTING MEASURES:

**FLASH POINT:** >212°F (>100°C)

**METHOD USED:** Closed Cup

#### FLAMMABLE LIMITS

LFL: Not determined

UFL: Not determined

**EXTINGUISHING MEDIA:** Foam, CO<sub>2</sub>, or Dry chemical

**FIRE AND EXPLOSION HAZARDS:** Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Toxic irritating gases may be formed under fire conditions.

**FIRE-FIGHTING EQUIPMENT:** Use positive-pressure, self-contained breathing apparatus and full protective equipment.

### 6. ACCIDENTAL RELEASE MEASURES:

**ACTION TO TAKE FOR SPILLS:** Absorb small spills with materials such as sand, sawdust, Zorball, or dirt. Wash exposed body areas thoroughly after handling. Report large spills to Dow AgroSciences at 800-992-5994.

### 7. HANDLING AND STORAGE:

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Keep out of reach of children. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors and spray mist. Handle concentrate in ventilated area. Wash thoroughly with soap and water after handling and before eating, chewing gum, using tobacco, using the toilet or smoking. Keep away from food, feedstuffs, and water supplies. Store in original container in a well-ventilated area.

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Dow AgroSciences LLC  
Indianapolis, IN 46268

## VISTA\* XRT HERBICIDE

Effective Date: 08-May-08  
Product Code: 116392

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions.

#### EXPOSURE GUIDELINES:

Fluroxypyr-meptyl: Dow AgroSciences Industrial Hygiene Guide is 10 mg/M<sup>3</sup>.  
Naphthalene: ACGIH TLV is 10 ppm TWA, 15 ppm STEL, Skin, A4. OSHA PEL is 10 ppm TWA.  
N-Methyl-2-pyrrolidinone: AIHA WEEL is 10 ppm, Skin. Interim Dow AgroSciences Industrial Hygiene Guide is 500 ppm.

A "skin" notation following the exposure guideline refers to the potential for dermal absorption of the material including mucous membranes and the eyes either by contact with vapors or by direct skin contact. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposures should be considered.

**ENGINEERING CONTROLS:** Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

#### RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

**EYE/FACE PROTECTION:** Use chemical goggles.

**SKIN PROTECTION:** Use gloves chemically resistant to this material.

**RESPIRATORY PROTECTION:** Atmospheric levels should be maintained below the exposure guideline.

**APPLICATORS AND ALL OTHER HANDLERS:** Refer to the product label for personal protective clothing and equipment.

### 9. PHYSICAL AND CHEMICAL PROPERTIES:

**APPEARANCE:** Clear pale yellow liquid

**ODOR:** Aromatic

**DENSITY:** 1.054 g/mL

**BOILING POINT:** Not determined

**SOLUBILITY IN WATER:** Not determined

### 10. STABILITY AND REACTIVITY:

**STABILITY: (CONDITIONS TO AVOID)** Stable under normal storage conditions.

**INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID)** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

**HAZARDOUS POLYMERIZATION:** Not known to occur.

### 11. TOXICOLOGICAL INFORMATION:

**EYE:** May cause slight temporary eye irritation. May cause slight temporary corneal injury.

**SKIN:** Brief contact may cause skin irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Has caused allergic skin reactions when tested in mice. The dermal LD<sub>50</sub> for rats is >5000 mg/kg.

**INGESTION:** Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. The oral LD<sub>50</sub> for female rats is >5000 mg/kg.

**INHALATION:** Vapor concentrations are attainable which could be hazardous on single exposure. The aerosol LC<sub>50</sub> for rats is >5.5 mg/L for 4 hours.

**SYSTEMIC (OTHER TARGET ORGAN) EFFECTS:** For fluroxypyr, based on available data, repeated exposures are not anticipated to cause significant adverse effects. Excessive exposure to the solvent(s) may cause respiratory irritation and central nervous system depression. For N-methylpyrrolidinone, in animals, effects have been reported on the following organs: liver and blood-forming organs (bone marrow & spleen).

**CANCER INFORMATION:** Fluroxypyr did not cause cancer in laboratory animals. Contains naphthalene, which has caused cancer in some laboratory animals. In humans, there is limited evidence of cancer in workers involved in naphthalene production. Limited oral studies in rats were negative.

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**TERATOLOGY (BIRTH DEFECTS):** Fluroxypyr did not cause birth defects in laboratory animals. Has been toxic to the fetus in laboratory animals at doses toxic to the mother. N-methylpyrrolidinone has caused toxic effects to the fetus in laboratory animals at high dose levels with either mild or undetectable maternal toxicity.

**REPRODUCTIVE EFFECTS:** Fluroxypyr, in animal studies, did not interfere with reproduction. N-methylpyrrolidinone did not interfere with reproduction in animal studies.

**MUTAGENICITY:** For the active ingredient, in-vitro and animal genetic toxicity studies were negative. For naphthalene: in-vitro genetic toxicity studies were negative in some cases and positive in other cases. For N-methylpyrrolidinone, studies were negative in some in-vitro genetic toxicity studies and positive in others.

### 12. ECOLOGICAL INFORMATION:

#### ENVIRONMENTAL FATE:

#### MOVEMENT & PARTITIONING:

Based largely or completely on information for fluroxypyr.  
Bioconcentration potential is low (BCF is <100 or Log Pow <3).  
Potential for mobility in soil is slight (Koc is between 2000 and 5000).  
Based largely or completely on information for the solvent.  
Bioconcentration potential is high (BCF is >3000 or Log Pow between 5 and 7).

#### DEGRADATION & PERSISTENCE:

Based largely or completely on information for fluroxypyr.  
Chemical degradation (hydrolysis) is expected in the environment within minutes to hours.  
Degradation is expected in the soil environment within days to weeks.  
Based largely or completely on information for the solvent.  
Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

#### ECOTOXICOLOGY:

Material is moderately toxic to aquatic organisms on an acute basis (LC<sub>50</sub> or EC<sub>50</sub> is between 1 and 10 mg/L in the most sensitive species tested).

### 13. DISPOSAL CONSIDERATIONS:

**DISPOSAL METHOD:** If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION:

#### U.S. DEPARTMENT OF TRANSPORTATION (DOT) INFORMATION:

**DOT Non-Bulk**  
NOT REGULATED

**DOT Bulk**  
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S  
**Technical Name:** NAPHTHALENE  
**Hazard Class:** 9 **ID Number:** UN3082  
**Packing Group:** PG III

**IMDG**  
NOT REGULATED

**ICAO/IATA**  
NOT REGULATED

**Additional Information**  
Reportable quantity: 25,000 lb - NAPHTHALENE

### 15. REGULATORY INFORMATION:

**NOTICE:** The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations.

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Indianapolis, IN 46268

## VISTA\* XRT HERBICIDE

Effective Date: 08-May-08  
Product Code: 116392

### U.S. REGULATIONS

**SARA 313 INFORMATION:** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Naphthalene	91-20-3	0.5%
N-methylpyrrolidinone	872-50-4	0.1%

**SARA HAZARD CATEGORY:** This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard  
A delayed health hazard

**TOXIC SUBSTANCES CONTROL ACT (TSCA):** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**CALIFORNIA PROPOSITION 65:** The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986:

This product contains a chemical(s) known to the State of California to cause cancer. The chemical is naphthalene (CAS # 91-20-3).

This product contains a chemical(s) known to the State of California to be a developmental toxin. The chemical is N-methylpyrrolidinone (CAS # 872-50-4).

**STATE RIGHT-TO-KNOW:** The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
Naphthalene	91-20-3	PA1 PA3
N-methylpyrrolidinone	872-50-4	PA1

PA1=Pennsylvania Hazardous Substance (present at > or = to 1.0%).

PA3=Pennsylvania Environmental Hazardous Substance (present at > or = to 1.0%).

**OSHA HAZARD COMMUNICATION STANDARD:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND):** This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA, which may require reporting of releases:

Chemical Name	CAS Number	RQ	% in Product
Naphthalene	91-20-3	100 lb.	0.5%

### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

#### Category Rating

Health	1
Flammability	1
Reactivity	0

### 16. OTHER INFORMATION:

**MSDS STATUS:** Revised Sections: 14 & 15  
Replaces MSDS Dated: 09-Nov-07  
Document Code: D03-362-001

The Information Herein Is Given In Good Faith, But No Warranty, Express or Implied, Is Made. Consult Dow AgroSciences for Further Information.

# Notification of the Use of Pesticides

(This notice should be received at least 72 hours prior to pesticide use)

**Date Issued:** 10/3/23

**To:** Parents/guardians of students, and staff of Hasbrouck Heights BOE

**From:** The School IPM Coordinator: Rob Brown Phone Number: 201-393-8140

This notice is to advise you that the following pesticides will be used at

Pesticide Common Name	Pesticide Trade Name	EPA Registration Number
Vegetation Control	Finale	431-1229

**Location of the pesticide application:** 365 Boulevard Hasbrouck Heights NJ

**Reason for the pesticide application:** Fertilization and vegetation control

**If an indoor application, the date and time it is planned:**

DATE \_\_\_\_\_ TIME \_\_\_\_\_

**If an outdoor application, 3 dates must be listed, in chronological order, on which the outdoor application may take place if the preceding date is canceled; and the time the application is scheduled to occur.**

DATE / TIME 10/9/23 7AM DATE / TIME 10/14/23 7AM DATE / TIME 10/21/23 7AM

**Description of the possible adverse effects of the pesticides as per the Material Safety Data Sheets for the pesticides to be used, if available:**

**Pesticide product label instructions and precautions related to Public Safety.**

## 7 Hour Re-Entry

**Note: as required by law, we are advising you of the following statement:**

*The Office of Pesticide Programs of the United States Environmental Protection Agency has stated:*

*"Where possible, persons who potentially are sensitive, such as pregnant women, infants, and children, should avoid any unnecessary pesticide exposure."*

**REMEMBER:** Whenever a non-low impact pesticide is used on school property there is also a Restricted Entry Interval (REI) that begins when the pesticide application ends. This Restricted Entry Interval last for seven hours unless the product label uses NUMERIC LANGUAGE, e.g., 4hours or 12 hours; directing a longer or shorter period of time. If the product label does not discuss Restricted Entry the period of time defaults to seven (7) hours.

# Notification of the Use of Pesticides

(This notice should be received at least 72 hours prior to pesticide use)

**Date Issued:** 10/2/23

**To:** Parents/guardians of students, and staff of Hasbrouck Heights BOE

**From:** The School IPM Coordinator: Rob Brown Phone Number: 201-393-8140

This notice is to advise you that the following pesticides will be used at

Pesticide Common Name	Pesticide Trade Name	EPA Registration Number
Vegetation Control	Finale	431-1229

**Location of the pesticide application:** 244 Oldfield Ave Hasbrouck Heights NJ

**Reason for the pesticide application:** Fertilization and vegetation control

**If an indoor application, the date and time it is planned:**

DATE \_\_\_\_\_ TIME \_\_\_\_\_

**If an outdoor application, 3 dates must be listed, in chronological order, on which the outdoor application may take place if the preceding date is canceled; and the time the application is scheduled to occur.**

DATE / TIME 10/9/23 7AM DATE / TIME 10/14/23 3PM DATE / TIME 10/21/23 3PM

**Description of the possible adverse effects of the pesticides as per the Material Safety Data Sheets for the pesticides to be used, if available:**

**Pesticide product label instructions and precautions related to Public Safety.**

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# Notification of the Use of Pesticides

(This notice should be received at least 72 hours prior to pesticide use)

**Date Issued:** 7/27/23

**To:** Parents/guardians of students, and staff of Hasbrouck Heights BOE

**From:** The School IPM Coordinator: Rob Brown Phone Number: 201-393-8140

This notice is to advise you that the following pesticides will be used at

Pesticide Common Name	Pesticide Trade Name	EPA Registration Number
Weed Control	Acclaim	432-950
Pesticide Common Name	Pesticide Trade Name	EPA Registration Number
Weed Control	Vista XRT	62719-586

**Location of the pesticide application:** 375 Boulevard Hasbrouck Heights NJ

**Reason for the pesticide application:** Fertilization, crab grass and broadleaf weed control

**If an indoor application, the date and time it is planned:**

DATE \_\_\_\_\_ TIME \_\_\_\_\_

**If an outdoor application, 3 dates must be listed, in chronological order, on which the outdoor application may take place if the preceding date is canceled; and the time the application is scheduled to occur.**

DATE / TIME 8/1/23 7AM DATE / TIME 8/2/23 7AM DATE / TIME 8/3/23 7AM

**Description of the possible adverse effects of the pesticides as per the Material Safety Data Sheets for the pesticides to be used, if available:**

\_\_\_\_\_

**Pesticide product label instructions and precautions related to Public Safety.**

\_\_\_\_\_

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Weed Control	Vista XRT	62719-586
Pesticide Common Name	Pesticide Trade Name	EPA Registration Number
Vegetation Control	Finale	431-1229

**Location of the pesticide application:** 365 Boulevard Hasbrouck Heights NJ

**Reason for the pesticide application:** Fertilization, vegetation, crab grass and broadleaf weed control

**If an indoor application, the date and time it is planned:**

DATE \_\_\_\_\_ TIME \_\_\_\_\_

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Weed Control	Acclaim	432-950
Pesticide Common Name	Pesticide Trade Name	EPA Registration Number
Weed Control	Vista XRT	62719-586

**Location of the pesticide application:** 302 Burton Ave Hasbrouck Heights NJ

**Reason for the pesticide application:** Fertilization, crab grass and broadleaf weed control

**If an indoor application, the date and time it is planned:**

DATE \_\_\_\_\_ TIME \_\_\_\_\_

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Pesticide Common Name	Pesticide Trade Name	EPA Registration Number
Vegetation Control	Finale	431-1229

**Location of the pesticide application:** 244 Oldfield Ave Hasbrouck Heights NJ

**Reason for the pesticide application:** Fertilization, vegetation, crab grass and broadleaf weed control

**If an indoor application, the date and time it is planned:**

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Weed Control	Acclaim	432-950
Pesticide Common Name	Pesticide Trade Name	EPA Registration Number
Weed Control	Vista XRT	62719-586

**Location of the pesticide application:** 1 Burton Ave Hasbrouck Heights NJ

**Reason for the pesticide application:** Fertilization, crab grass and broadleaf weed control

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DATE \_\_\_\_\_ TIME \_\_\_\_\_

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*The Office of Pesticide Programs of the United States Environmental Protection Agency has stated:*

*“Where possible, persons who potentially are sensitive, such as pregnant women, infants, and children, should avoid any unnecessary pesticide exposure.”*

**REMEMBER:** Whenever a non-low impact pesticide is used on school property there is also a Restricted Entry Interval (REI) that begins when the pesticide application ends. This Restricted Entry Interval last for seven hours unless the product label uses NUMERIC LANGUAGE, e.g., 4hours or 12 hours; directing a longer or shorter period of time. If the product label does not discuss Restricted Entry the period of time defaults to seven (7) hours.



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Version 3.0 / USA  
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Revision Date: 07/14/2014  
Print Date: 03/14/2016

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**Product identifier**

**Trade name** FINALE® HERBICIDE

**Product code (UVP)** 05950643

**SDS Number** 102000004004

**EPA Registration No.** 432-1229

**Relevant identified uses of the substance or mixture and uses advised against**

**Use** Herbicide

**Restrictions on use** See product label for restrictions.

**Information on manufacturer**

Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577

**Product Information Telephone Number**

**SDS Information or Request** SDSINFO.BCS-NA@bayer.com

**SECTION 2: HAZARDS IDENTIFICATION**

**Classification in accordance with regulation HCS 29CFR §1910.1200**

Reproductive toxicity : Category 1B

Specific target organ toxicity - repeated exposure : Category 2

Eye irritation : Category 2A

Acute toxicity (Inhalation): Category 4



**Signal word:** Danger

**Hazard statements**

May damage fertility or the unborn child.

May cause damage to organs (nervous system) through prolonged or repeated exposure.

Causes serious eye irritation.

Harmful if inhaled.



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### Precautionary statements

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Do not breathe spray.  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
IF exposed or concerned: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER/doctor/physician if you feel unwell.  
Store locked up.  
Dispose of contents/container in accordance with local regulation.

### Other hazards

No other hazards known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Glufosinate ammonium	77182-82-2	11.33
Sodium alkyl ether sulphate	68585-34-2	12.70
1-Methoxy-2-propanol	107-98-2	10.00

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<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>Skin contact</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>Eye contact</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>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



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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.

**Most important symptoms and effects, both acute and delayed**

**Symptoms**                      Gastrointestinal disturbance, Tremors, Convulsions, Drowsiness, Diarrhoea, Vomiting, Nausea, muscular weakness, Tachycardia, Respiratory failure, Unconsciousness, Coma  
  
Symptoms may be delayed.

**Indication of any immediate medical attention and special treatment needed**

**Treatment**                      Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.

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**SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media**

**Suitable**                              Carbon dioxide (CO<sub>2</sub>), Foam, Water spray, Dry powder

**Unsuitable**                              None known.

**Special hazards arising from the substance or mixture**                      In the event of fire the following may be released: Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Oxides of phosphorus, Nitrogen oxides (NO<sub>x</sub>)

**Advice for firefighters**

**Special protective equipment for fire-fighters**                      Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information**                      Fight fire from upwind position. Keep out of smoke. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point**                              > 100 °C

**Autoignition temperature**                      no data available

**Lower explosion limit**                      no data available

**Upper explosion limit**                      no data available

**Explosivity**                              not applicable

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Precautions** Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

#### Methods and materials for containment and cleaning up

**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 to enter soil, waterways or waste water canal. Do not allow product to contact non-target plants.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

### SECTION 7: HANDLING AND STORAGE

#### Precautions for safe handling

**Advice on safe handling** Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. Handle and open container in a manner as to prevent spillage.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

#### Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
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Glufosinate ammonium	77182-82-2	0.9 mg/m3 (TWA)		OES BCS*
Sodium alkyl ether sulphate (Particulate.)	68585-34-2	5ug/m3 (AN ESL)	02 2013	TX ESL
Sodium alkyl ether sulphate (Particulate.)	68585-34-2	50ug/m3 (ST ESL)	02 2013	TX ESL
1-Methoxy-2-propanol	107-98-2	50 ppm (TWA)	02 2013	ACGIH
1-Methoxy-2-propanol	107-98-2	100 ppm (STEL)	02 2013	ACGIH
1-Methoxy-2-propanol	107-98-2	360 mg/m3/100 ppm (REL)	2010	NIOSH
1-Methoxy-2-propanol	107-98-2	540 mg/m3/150 ppm (STEL)	2010	NIOSH
1-Methoxy-2-propanol	107-98-2	360 mg/m3/100 ppm (TWA)	1989	OSHA Z1A
1-Methoxy-2-propanol	107-98-2	540 mg/m3/150 ppm (STEL)	1989	OSHA Z1A
1-Methoxy-2-propanol	107-98-2	380 mg/m3/100 ppm (TWA)	06 2008	TN OEL
1-Methoxy-2-propanol	107-98-2	540 mg/m3/150 ppm (STEL)	06 2008	TN OEL
1-Methoxy-2-propanol	107-98-2	1000ppb (ST ESL)	07 2011	TX ESL
1-Methoxy-2-propanol	107-98-2	3700ug/m3 (ST ESL)	07 2011	TX ESL
1-Methoxy-2-propanol	107-98-2	370ug/m3 (AN ESL)	07 2011	TX ESL
1-Methoxy-2-propanol	107-98-2	100ppb (AN ESL)	07 2011	TX ESL
1-Methoxy-2-propanol	107-98-2	540 mg/m3/150 ppm (STEL)	08 2010	US CA OEL
1-Methoxy-2-propanol	107-98-2	360 mg/m3/100 ppm (TWA PEL)	08 2010	US CA OEL

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

**Exposure controls**

**Personal protective equipment**

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

**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.

**Hand protection**

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



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<b>Eye protection</b>	Tightly fitting safety goggles
<b>Skin and body protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<b>General protective measures</b>	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. Eye wash facility and safety shower should be available.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	blue
<b>Physical State</b>	Liquid
<b>Odor</b>	weakly pungent
<b>Odour Threshold</b>	no data available
<b>pH</b>	5.5 - 7.5 at 100 %
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	ca. 1.06 g/cm <sup>3</sup> at 20 °C
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	no data available
<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	soluble
<b>Minimum Ignition Energy</b>	not applicable
<b>Decomposition temperature</b>	not applicable
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Viscosity</b>	no data available
<b>Flash point</b>	> 100 °C
<b>Autoignition temperature</b>	no data available
<b>Lower explosion limit</b>	no data available
<b>Upper explosion limit</b>	no data available
<b>Explosivity</b>	not applicable

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### SECTION 10: STABILITY AND REACTIVITY

#### Reactivity

<b>Thermal decomposition</b>	not applicable
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	Bases
<b>Hazardous decomposition products</b>	Ammonia

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Exposure routes</b>	Eye contact, Inhalation, Skin Absorption, Ingestion
<b>Immediate Effects</b>	
<b>Eye</b>	Causes substantial but temporary eye injury. May cause severe eye irritation.
<b>Skin</b>	Harmful if absorbed through skin. May cause slight irritation.
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Harmful if inhaled.
<b>Information on toxicological effects</b>	
<b>Acute oral toxicity</b>	LD50 (male/female combined rat) 3,570 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (female rat) 4.14 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.
<b>Acute dermal toxicity</b>	LD50 (rat) > 2,000 mg/kg
<b>Skin irritation</b>	Slight irritation (rabbit)
<b>Eye irritation</b>	Severe eye irritation. (rabbit)
<b>Sensitisation</b>	Non-sensitizing. (guinea pig)

#### Assessment repeated dose toxicity

Glufosinate-ammonium caused neurobehavioral effects and/or neuropathological changes in animal studies. Glufosinate-ammonium was well tolerated in rats and mice but less well tolerated in the dog in subchronic studies.

#### Assessment Mutagenicity

Glufosinate-ammonium was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.



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**Assessment Carcinogenicity**

Glufosinate-ammonium was not carcinogenic in lifetime feeding studies in rats and mice.

**ACGIH**

1-Methoxy-2-propanol 107-98-2 Group A4

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Assessment toxicity to reproduction**

Implantation loss occurred in a rat multigeneration study with Glufosinate-ammonium. There were no effects on male fertility.

**Assessment developmental toxicity**

Glufosinate-ammonium caused developmental toxicity only at dose levels toxic to the dams.  
Glufosinate-ammonium caused an increased incidence of post implantation losses.

**Further information**

Only acute toxicity studies have been performed on the formulated product.  
The non-acute information pertains to the active ingredient(s).

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**SECTION 12: ECOLOGICAL INFORMATION**

<b>Biodegradability</b>	Glufosinate-ammonium: ; not rapidly biodegradable
<b>Koc</b>	Glufosinate-ammonium: Koc: 2.3
<b>Bioaccumulation</b>	Glufosinate-ammonium: Bioconcentration factor (BCF) < 1; Does not bioaccumulate.
<b>Mobility in soil</b>	Glufosinate-ammonium: Highly mobile in soils
<b>Environmental precautions</b>	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. Drift or runoff from treated areas may adversely affect non-target plants. Apply this product as specified on the label.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**



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<b>Product</b>	Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Dispose in accordance with all local, state/provincial and federal regulations.
<b>Contaminated packaging</b>	Do not use containers for other products. Triple rinse containers. Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke.
<b>RCRA Information</b>	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.

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## SECTION 14: TRANSPORT INFORMATION

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

Freight Classification: COMPOUNDS, TREE OR WEEDKILLING, N.O.I., other than poison; HAVING A DENSITY OF GREATER THAN 20 LBS. PER CUBIC FOOT

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## SECTION 15: REGULATORY INFORMATION

**EPA Registration No.** 432-1229

### US Federal Regulations

#### TSCA list

Sodium alkyl ether sulphate	68585-34-2
1-Methoxy-2-propanol	107-98-2

**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.

# Bayer Environmental Science

## SAFETY DATA SHEET



### FINALE® HERBICIDE

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#### Canadian Regulations

##### Canadian Domestic Substance List

Sodium alkyl ether sulphate	68585-34-2
1-Methoxy-2-propanol	107-98-2

#### Environmental

##### 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)

1-Methoxy-2-propanol	107-98-2
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#### EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Warning!

**Hazard statements:** Causes substantial but temporary eye injury.  
Harmful if swallowed, inhaled or absorbed through the skin.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation of vapour or mist.

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## SECTION 16: OTHER INFORMATION

#### NFPA 704 (National Fire Protection Association):

Health - 2	Flammability - 1	Instability - 0	Others - none
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#### HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 2	Flammability - 1	Physical Hazard - 0	PPE -
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0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

**Reason for Revision:** Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

**Revision Date:** 07/14/2014

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

Bayer Environmental Science  
SAFETY DATA SHEET



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registered trademarks of Bayer.

# Notification of the Use of Pesticides

(This notice should be received at least 72 hours prior to pesticide use)

**Date Issued:** 4/7/23

**To:** Parents/guardians of students, and staff of Depken Field

**From:** The School IPM Coordinator: Dina Messery Phone Number: 201-288-6150

This notice is to advise you that the following pesticides will be used at Depken Field

Pesticide Common Name	Pesticide Trade Name	EPA Registration Number
Crab Grass Pre Emergent	Barricade 4L Herbicide	100-1139
Pesticide Common Name	Pesticide Trade Name	EPA Registration Number
Broadleaf Weed Control	Escalade 2	228-442
Pesticide Common Name	Pesticide Trade Name	EPA Registration Number
Vegetation Control	Finale	431-1229

**Location of the pesticide application:** 244 Oldfield Ave Ave Hasbrouck Heights NJ

**Reason for the pesticide application:** Fertilization, crab grass and broadleaf weed control

**If an outdoor application, 3 dates must be listed, in chronological order, on which the outdoor application may take place if the preceding date is canceled; and the time the application is scheduled to occur.**

**DATE / TIME** 4/12/23 7AM **DATE / TIME** 4/13/23 7AM **DATE / TIME** 4/14/23 7AM

**Description of the possible adverse effects of the pesticides as per the Material Safety Data Sheets for the pesticides to be used, if available:**

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**Pesticide product label instructions and precautions related to Public Safety.**

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## 7 Hour Re-Entry

**Note: as required by law, we are advising you of the following statement:**

*The Office of Pesticide Programs of the United States Environmental Protection Agency has stated:*

*“Where possible, persons who potentially are sensitive, such as pregnant women, infants, and children, should avoid any unnecessary pesticide exposure.”*

**REMEMBER:** Whenever a non-low impact pesticide is used on school property there is also a Restricted Entry Interval (REI) that begins when the pesticide application ends. This Restricted Entry Interval last for seven hours unless the product label uses NUMERIC LANGUAGE, e.g., 4hours or 12 hours; directing a longer or shorter period of time. If the product label does not discuss Restricted Entry the period of time defaults to seven (7) hours.





## ACCLAIM® EXTRA HERBICIDE

Version 4.0 / USA  
102000005372

1/12  
Revision Date: 11/12/2014  
Print Date: 04/28/2015

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product identifier

**Trade name** ACCLAIM® EXTRA HERBICIDE

**Product code (UVP)** 05954002

**SDS Number** 102000005372

**EPA Registration No.** 432-950

#### Relevant identified uses of the substance or mixture and uses advised against

**Use** Herbicide

**Restrictions on use** See product label for restrictions.

#### Information on manufacturer

Bayer CropScience  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
United States

#### Emergency telephone no.

**Emergency Telephone Number (24hr/ 7 days)** 1-800-334-7577

**Product Information Telephone Number** 1-866-99BAYER (1-866-992-2937)

**SDS Information or Request** SDSINFO.BCS-NA@bayer.com

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification in accordance with regulation HCS 29CFR §1910.1200

Aspiration hazard : Category 1

Eye irritation : Category 2B



**Signal word:** Danger

#### Hazard statements

May be fatal if swallowed and enters airways.

Causes eye irritation.

#### Precautionary statements

Wash face, hands and any exposed skin thoroughly after handling.

IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.



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Do NOT induce vomiting.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/ attention.  
Store locked up.  
Dispose of contents/container in accordance with local regulation.

### Other hazards

No other hazards known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Fenoxaprop-P-ethyl	71283-80-2	6.59
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	40.46
Isotridecanol, ethoxylated	9043-30-5	15.00
Naphthalene	91-20-3	5.66
Glycerine	56-81-5	6.00

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

<b>General advice</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<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>Skin contact</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>Eye contact</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>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.

### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Inhalation of high vapour concentrations can cause CNS-depression and narcosis.  Symptoms of Overexposure, Headache, Loss of appetite, Nausea
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## ACCLAIM® EXTRA HERBICIDE

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### Indication of any immediate medical attention and special treatment needed

<b>Risks</b>	Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.
<b>Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

**Suitable** Dry chemical, Carbon dioxide (CO<sub>2</sub>), Foam, Water spray

**Unsuitable** None known.

### Advice for firefighters

**Special protective equipment for fire-fighters** Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. In the event of fire and/or explosion do not breathe fumes.

**Further information** 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.

**Flash point** 100 °C

**Autoignition temperature** no data available

**Lower explosion limit** no data available

**Upper explosion limit** no data available

**Explosivity** not applicable

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Precautions** Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.

### Methods and materials for containment and cleaning up

**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 non-target plants. Do not allow to enter soil, waterways or waste water canal.

**Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.



# ACCLAIM® EXTRA HERBICIDE

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Information regarding waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

**Hygiene measures** Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.  
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

### Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers** Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Fenoxaprop-P-ethyl	71283-80-2	2.6 mg/m3 (TWA)		OES BCS*
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	2560ug/m3 (ST ESL)	07 2011	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	460ppb (ST ESL)	07 2011	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	256ug/m3 (AN ESL)	07 2011	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	46ppb (AN ESL)	07 2011	TX ESL
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	1,600 mg/m3/400 ppm (TWA PEL)	08 2010	US CA OEL
Naphthalene	91-20-3	15 ppm (STEL)	02 2012	ACGIH
Naphthalene	91-20-3	10 ppm (TWA)	02 2012	ACGIH
Naphthalene	91-20-3	10 ppm (TWA)	02 2013	ACGIH NIC



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Naphthalene	91-20-3	50 mg/m3/10 ppm (REL)	2010	NIOSH
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	2010	NIOSH
Naphthalene	91-20-3	50 mg/m3/10 ppm (PEL)	02 2006	OSHA Z1
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	1989	OSHA Z1A
Naphthalene	91-20-3	50 mg/m3/10 ppm (TWA)	1989	OSHA Z1A
Naphthalene	91-20-3	50 mg/m3/10 ppm (TWA)	06 2008	TN OEL
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	06 2008	TN OEL
Naphthalene	91-20-3	38ppb (ST ESL)	02 2013	TX ESL
Naphthalene	91-20-3	50ug/m3 (AN ESL)	07 2011	TX ESL
Naphthalene	91-20-3	10ppb (AN ESL)	07 2011	TX ESL
Naphthalene	91-20-3	200ug/m3 (ST ESL)	02 2013	TX ESL
Naphthalene	91-20-3	75 mg/m3/15 ppm (STEL)	08 2010	US CA OEL
Naphthalene	91-20-3	50 mg/m3/10 ppm (TWA PEL)	08 2010	US CA OEL
Naphthalene	91-20-3	10 ppm (TWA)		OES BCS*
Glycerine (Total dust.)	56-81-5	15 mg/m3 (PEL)	02 2006	OSHA Z1
Glycerine (Respirable fraction.)	56-81-5	5 mg/m3 (PEL)	02 2006	OSHA Z1
Glycerine (Respirable fraction.)	56-81-5	5 mg/m3 (TWA)	1989	OSHA Z1A
Glycerine (Total dust.)	56-81-5	10 mg/m3 (TWA)	1989	OSHA Z1A
Glycerine (Total dust and mist.)	56-81-5	10 mg/m3 (TWA)	06 2008	TN OEL
Glycerine (Respirable fraction and dust or fume.)	56-81-5	5 mg/m3 (TWA)	06 2008	TN OEL
Glycerine (Particulate.)	56-81-5	50ug/m3 (ST ESL)	02 2013	TX ESL
Glycerine (Particulate.)	56-81-5	5ug/m3 (AN ESL)	02 2013	TX ESL
Glycerine (Vapor.)	56-81-5	100ug/m3 (AN ESL)	02 2013	TX ESL
Glycerine	56-81-5	1000ug/m3	02 2013	TX ESL



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(Vapor.)		(ST ESL)		
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\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

### Exposure controls

#### Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

<b>Respiratory protection</b>	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.
<b>Hand protection</b>	Chemical-resistant gloves (barrier laminate, butyl rubber, nitrile rubber or Viton)
<b>Eye protection</b>	Tightly fitting safety goggles
<b>Skin and body protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<b>General protective measures</b>	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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	white to beige
<b>Physical State</b>	liquid
<b>Odor</b>	characteristic
<b>Odour Threshold</b>	no data available
<b>pH</b>	7.5 - 8.1 at 10 %
<b>Vapor Pressure</b>	no data available
<b>Vapor Density (Air = 1)</b>	no data available
<b>Density</b>	ca. 1.03 g/cm <sup>3</sup> at 20 °C
<b>Evaporation rate</b>	no data available
<b>Boiling Point</b>	no data available
<b>Melting / Freezing Point</b>	no data available
<b>Water solubility</b>	dispersible
<b>Minimum Ignition Energy</b>	not applicable
<b>Decomposition temperature</b>	not applicable



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<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Viscosity</b>	no data available
<b>Flash point</b>	100 °C
<b>Autoignition temperature</b>	no data available
<b>Lower explosion limit</b>	no data available
<b>Upper explosion limit</b>	no data available
<b>Explosivity</b>	not applicable

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## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

<b>Thermal decomposition</b>	not applicable
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	no data available
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes** Eye contact, Ingestion, Inhalation, Skin contact

### Immediate Effects

**Eye** Moderate eye irritation.

**Ingestion** Harmful if swallowed.

### Information on toxicological effects

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

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

LC50 (male/female combined rat) > 20 mg/l  
Exposure time: 1 h



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Determined in the form of liquid aerosol.  
Extrapolated from the 4 hr LC50.  
(actual)

<b>Acute dermal toxicity</b>	LD50 (male/female combined rat) > 4,000 mg/kg
<b>Skin irritation</b>	Slight irritation (rabbit)
<b>Eye irritation</b>	Moderate eye irritation. (rabbit)
<b>Sensitisation</b>	Non-sensitizing. (guinea pig)

### Assessment repeated dose toxicity

Fenoxaprop-P-ethyl did not cause specific target organ toxicity in rats. Fenoxaprop-P-ethyl caused specific target organ toxicity in experimental animal studies in mice in the following organ(s): kidneys.

### Assessment Mutagenicity

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

### Assessment Carcinogenicity

Fenoxaprop-P-ethyl demonstrated no carcinogenic potential in a lifetime feeding study in rats. Fenoxaprop-P-ethyl caused an increased incidence of liver tumours in mice at high doses. Fenoxaprop-P-ethyl causes tumours through peroxisome proliferation. The mechanism that triggers tumours in rodents and the type of tumours observed are not relevant to humans.

### ACGIH

Naphthalene	91-20-3	Group A4
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### NTP

Naphthalene	91-20-3
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### IARC

Naphthalene	91-20-3	Overall evaluation: 2B
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### OSHA

None.

### Assessment toxicity to reproduction

Fenoxaprop-P-ethyl did not cause reproductive toxicity in a two-generation study in rats.

### Assessment developmental toxicity

Fenoxaprop-P-ethyl did not cause developmental toxicity in rats and rabbits.

### Further information

Acute toxicity studies have been bridged from a similar formulation(s).  
The non-acute information pertains to the active ingredient(s).

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## SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 0.39 mg/l
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	Exposure time: 96 h The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) > 1.058 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient fenoxaprop-P-ethyl. No acute toxicity was observed at its limit of water solubility.
<b>Toxicity to aquatic plants</b>	EC50 (Pseudokirchneriella subcapitata) 0.54 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient fenoxaprop-P-ethyl.
<b>Biodegradability</b>	Fenoxaprop-P-ethyl: ; not rapidly biodegradable
<b>Koc</b>	Fenoxaprop-P-ethyl: Koc: 11354
<b>Bioaccumulation</b>	Fenoxaprop-P-ethyl: Bioconcentration factor (BCF) 338; Does not bioaccumulate.
<b>Mobility in soil</b>	Fenoxaprop-P-ethyl: Immobile in soil
<b>Environmental precautions</b>	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 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

### Waste treatment methods

<b>Product</b>	Do not contaminate water, food, or feed by disposal. 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.
<b>Contaminated packaging</b>	Do not re-use empty containers. 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. Follow advice on product label and/or leaflet.
<b>RCRA Information</b>	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.



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**SECTION 14: TRANSPORT INFORMATION**

**49CFR**

UN number	<b>3082</b>
Class	9
Packaging group	III
Marine pollutant	Marine pollutant
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (FENOXAPROP-P-ETHYL, NAPHTHALENE)
RQ	Reportable Quantity is reached with 1,666 lb of product.

**IMDG**

UN number	<b>3082</b>
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FENOXAPROP-P-ETHYL SOLUTION)

**IATA**

UN number	<b>3082</b>
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FENOXAPROP-P-ETHYL SOLUTION )

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification:	COMPOUNDS, TREE OR WEEDKILLING, N.O.I., other than poison; HAVING A DENSITY OF GREATER THAN 20 LBS. PER CUBIC FOOT
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**SECTION 15: REGULATORY INFORMATION**

**EPA Registration No.** 432-950

**US Federal Regulations**

**TSCA list**

Solvent Naphtha (petroleum), heavy aromatic	64742-94-5
Isotridecanol, ethoxylated	9043-30-5
Naphthalene	91-20-3
Glycerine	56-81-5



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**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**

Naphthalene	91-20-3	25,000lbs
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**US States Regulatory Reporting**

**CA Prop65**

This product contains a chemical known to the State of California to cause cancer.

Naphthalene	91-20-3
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**US State Right-To-Know Ingredients**

Naphthalene	91-20-3	CA, CT, IL, MN, NJ, RI
Glycerine	56-81-5	MN

**Canadian Regulations**

**Canadian Domestic Substance List**

Solvent Naphtha (petroleum), heavy aromatic	64742-94-5
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Glycerine	56-81-5
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**Environmental**

**CERCLA**

Naphthalene	91-20-3	100 lbs
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**Clean Water Section 307 Priority Pollutants**

Naphthalene	91-20-3
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**Safe Drinking Water Act Maximum Contaminant Levels**

Naphthalene	91-20-3
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**International Regulations**

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

Solvent Naphtha (petroleum), heavy aromatic	64742-94-5
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Glycerine	56-81-5
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**EPA/FIFRA Information:**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

**Signal word:** Caution!

**Hazard statements:** Moderate eye irritation.  
Harmful if swallowed.  
Avoid contact with skin, eyes and clothing.

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**SECTION 16: OTHER INFORMATION**



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**NFPA 704 (National Fire Protection Association):**

Health - 1      Flammability - 1      Instability - 0      Others - none

**HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)**

Health - 2      Flammability - 1      Physical Hazard - 0      PPE -

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

**Reason for Revision:** Revised according to the current OSHA Hazard Communication Standard (29CFR1910.1200)

**Revision Date:** 11/12/2014

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