



**Material Safety Data Sheet**  
**EXCEL® SUPER HERBICIDE**

MSDS Number: 102000003028  
 MSDS Version 2.2  
 Revision Date: 09/13/2011  
 Print Date: 09/14/2011

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

|                             |                        |
|-----------------------------|------------------------|
| <b>Product name</b>         | EXCEL® SUPER HERBICIDE |
| <b>MSDS Number</b>          | 102000003028           |
| <b>Product code (UVP)</b>   | 05944430               |
| <b>PCP Registration No.</b> | 22205                  |
| <b>Product Use</b>          | Herbicide              |

Bayer CropScience Inc  
 #200, 160 Quarry Park Blvd, SE  
 Calgary, Alberta T2C 3G3  
 Canada

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
 For Product Information call: 1-888-283-6847

**SECTION 2. HAZARDS IDENTIFICATION**

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

**Emergency Overview**      Warning! Causes eye damage. Causes eye irritation. Causes skin irritation.  
 Avoid contact with skin, eyes and clothing. Avoid breathing spray mist.

|                                       |   |
|---------------------------------------|---|
| <b>Physical State</b>                 | liquid  |
| <b>Odor</b>                           | aromatic  |
| <b>Appearance</b>                     | light yellow  |
| <b>Exposure routes</b>                | Eye contact, Skin contact, Inhalation   |
| <b>Immediate Effects</b>              |   |
| <b>Eye</b>                            | Causes eye damage. Causes eye irritation. Do not get in eyes.   |
| <b>Skin</b>                           | Causes skin irritation. Avoid contact with skin and clothing.   |
| <b>Ingestion</b>                      | Do not take internally.   |
| <b>Inhalation</b>                     | Avoid breathing spray mist.   |
| <b>Chronic or Delayed Long-Term</b>   | This product or its components may have long term (chronic) health effects. This product or its components may have target organ effects. |
| <b>Potential Environmental Effect</b> | Toxic to fish.  |



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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     | 7.97                       |
| Naphthalene                     | 91-20-3        | 8.79                       |

**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 Treatment</b> | Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.   |

**SECTION 5. FIRE FIGHTING MEASURES**

|                                 |                   |
|---------------------------------|-------------------|
| <b>Flash point</b>              | 72 °C / 162 °F    |
| <b>Autoignition temperature</b> | no data available |
| <b>Lower Flammability Limit</b> | no data available |
| <b>Upper Flammability Limit</b> | no data available |
| <b>Explosiveness</b>            | no data available |



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**Suitable extinguishing media** Water spray, Alcohol-resistant foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

**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. Do not allow to enter soil, waterways or waste water canal.

**SECTION 7. HANDLING AND STORAGE**

- Handling procedures** Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation. For personal protection see section 8.
- Storing Procedures** Protect from freezing. 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.
- Work/Hygienic Procedures** Handle in accordance with good industrial hygiene and safety practice. 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.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- General Protection** Follow all label instructions. 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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- Eye/Face Protection**      Tightly fitting safety goggles  
or  
Face-shield
- Hand protection**              Chemical resistant nitrile rubber gloves
- 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**

|                                   |                       |            |            |           |
|-----------------------------------|-----------------------|------------|------------|-----------|
| Fenoxaprop-P-ethyl<br>Naphthalene | 71283-80-2<br>91-20-3 | OES BCS*   | TWA        | 2.6 mg/m3 |
|                                   |                       | OEL (QUE)  | TWA        | 10 ppm    |
|                                   |                       | OEL (QUE)  | STEL       | 15 ppm    |
|                                   |                       | CAD AB OEL | TWA        | 10 ppm    |
|                                   |                       | CAD AB OEL | STEL       | 15 ppm    |
|                                   |                       | CAD BC OEL | TWA        | 10 ppm    |
|                                   |                       | CAD BC OEL | STEL       | 15 ppm    |
|                                   |                       | CAD ON OEL | TWAEV      | 10 ppm    |
|                                   |                       | CAD ON OEL | STEV       | 15 ppm    |
|                                   |                       | OES BCS*   | TWA        | 10 ppm    |
|                                   |                       | OEL (QUE)  | TWA        | 10 ppm    |
|                                   |                       | OEL (QUE)  | STEL       | 15 ppm    |
|                                   |                       | CAD SK OEL | 8 HR ACL   | 10 ppm    |
|                                   |                       | CAD SK OEL | 15 MIN ACL | 15 ppm    |

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                |                                 |
|--------------------------------|---------------------------------|
| <b>Appearance</b>              | light yellow                    |
| <b>Physical State</b>          | liquid                          |
| <b>Odor</b>                    | aromatic                        |
| <b>pH</b>                      | 6.9 (5 %)                       |
| <b>Vapor Pressure</b>          | no data available               |
| <b>Vapor Density (Air = 1)</b> | no data available               |
| <b>Density</b>                 | 1.01 g/cm <sup>3</sup> at 20 °C |
| <b>Evaporation rate</b>        | no data available               |

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|   |                   |
|---|-------------------|
| <b>Boiling Point</b>                          | no data available |
| <b>Water solubility</b>                       | miscible          |
| <b>Minimum Ignition Energy</b>                | no data available |
| <b>Decomposition temperature</b>              | no data available |
| <b>Partition coefficient: n-octanol/water</b> | no data available |
| <b>Viscosity</b>                              | no data available |

**SECTION 10. STABILITY AND REACTIVITY**

|   |   |
|---|---|
| <b>Conditions to avoid</b>              | freezing  |
| <b>Incompatibility</b>                  | Strong oxidizing agents<br>Strong acids<br>Strong bases   |
| <b>Hazardous Decomposition Products</b> | Thermal decomposition can lead to release of:<br>Carbon monoxide<br>Carbon dioxide (CO <sub>2</sub> ) |
| <b>Hazardous reactions</b>              | No hazardous reactions when stored and handled according to prescribed instructions.                  |
| <b>Chemical Stability</b>               | Stable under recommended storage conditions.  |

**SECTION 11. TOXICOLOGICAL INFORMATION**

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

|                              |                          |
|------------------------------|--------------------------|
| <b>Acute oral toxicity</b>   | rat: LD50: 3,355 mg/kg   |
| <b>Acute dermal toxicity</b> | rat: LD50: > 2,000 mg/kg |



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**Acute inhalation toxicity** rat: LC50: > 6.8 mg/l  
Exposure time: 4 h  
Determined in the form of liquid aerosol.

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.

**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.

**Assessment 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.

**SECTION 12. ECOLOGICAL INFORMATION**



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**Environmental precautions**

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 allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water.

Do not apply when weather conditions favor runoff or drift. Apply this product as specified on the label.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance**

Dispose in accordance with all local, state/provincial and federal regulations. Do not contaminate water, food, or feed by disposal. Never place unused product down any indoor or outdoor drain.

**Container Disposal**

Follow advice on product label and/or leaflet. Triple rinse containers. Add washings to sprayer at time of filling. Consult state and local regulations regarding the proper disposal of container.

**SECTION 14. TRANSPORT INFORMATION**

**TDG**

Not dangerous goods / not hazardous material

**49CFR**

UN-Number

**3082**

Class

9

Packaging group

III

Marine pollutant

Marine pollutant

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S.  
(FENOXAPROP-P-ETHYL, NAPHTHALENE)

RQ

Reportable Quantity is reached with 1,137 lb of product.

**IMDG**

UN-Number

**3082**

Class

9

Packaging group

III

Marine pollutant

YES

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(FENOXAPROP-P-ETHYL SOLUTION)

**IATA**

UN-Number

**3082**

Class

9

Packaging group

III

Environm. Hazardous Mark

YES

Description of the goods

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(FENOXAPROP-P-ETHYL SOLUTION )



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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.

**SECTION 15. REGULATORY INFORMATION**

**PCP Registration No.** 22205

**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, 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





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**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

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

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

Health - 1\*      Flammability - 1      Physical Hazard - 1      PPE -

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

Reason for Revision: Reviewed and updated for general editorial purposes. The following sections have been revised: Section 1: Chemical Product and Company Information. Section 2: Hazards Identification. Section 7: Handling and Storage. Section 16: Other Information.

Prepared by the HSE Department of Bayer CropScience Inc. (306)-721-0310.

Revision Date: 09/13/2011

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