



**Material Safety Data Sheet**

**IGNITE® 280 SL HERBICIDE**

MSDS Number: 102000012545

MSDS Version 1.2

Revision Date: 04/24/2007

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

**Product Name** IGNITE® 280 SL HERBICIDE  
**MSDS Number** 102000012545

Bayer CropScience  
 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: 1-866-99BAYER (1-866-992-2937)

**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Glufosinate ammonium	77182-82-2	24.50

**SECTION 3. HAZARDS IDENTIFICATION**

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

**Emergency Overview** Warning! May be fatal if absorbed through skin. Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**Physical State** liquid clear

**Appearance** light yellow

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

**Immediate Effects**

**Eye** Severe eye irritation. Causes substantial but temporary eye injury.

**Skin** May cause slight irritation. Skin sensitizer

**Ingestion** Harmful if swallowed. Do not take internally.

**Inhalation** May cause irritation.

**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.



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

**SECTION 5. FIRE FIGHTING MEASURES**

<b>Flash point</b>	> 93.3 °C / > 199.9 °F
<b>Explosiveness</b>	Not explosive
<b>Fire and Explosion Hazards</b>	In the event of fire the following can be released: carbon monoxide (CO) nitrogen oxides (NOx) Sulphur oxides Hydrogen fluoride Oxides of phosphorus Cyanides  The product is combustible.
<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO2), Dry powder, Foam, Water spray
<b>Unsuitable Extinguishing media</b>	High volume water jet



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**Fire Fighting Instructions** 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.

In the event of fire, wear self-contained breathing apparatus.

**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** Keep in suitable, closed containers for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Clean contaminated floors and objects thoroughly, observing environmental regulations.

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

**SECTION 7. HANDLING AND STORAGE**

**Handling Procedures** Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.

Keep away from heat and sources of ignition.

**Storing Procedures** 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. Keep away from direct sunlight.

**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.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Wash thoroughly and put on clean clothing.

**Min/Max Storage Temperatures** Do not transport or store above 51 °C / 124 °F

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

**General Protection** Train employees in safe use of the product. 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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<b>Eye/Face Protection</b>	Tightly fitting safety goggles
<b>Hand Protection</b>	Chemical resistant nitrile rubber gloves
<b>Body Protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	light yellow
<b>Physical State</b>	liquid clear
<b>pH</b>	6.8 - 7.2
<b>Density</b>	approx. 1.15 g/cm <sup>3</sup> at 20 °C

**SECTION 10. STABILITY AND REACTIVITY**

<b>Conditions to Avoid</b>	Heat, flames and sparks. Exposure to moisture.
<b>Incompatibility</b>	Bases
<b>Hazardous Decomposition Products</b>	Thermal decomposition Carbon oxides nitrogen oxides (NOx) ammonia
<b>Hazardous Reactions</b>	Stable under recommended storage conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity data have been bridged from a very similar formulation containing a similar concentration of the active ingredient, glufosinate-ammonium. The non-acute information pertains to the technical-grade active ingredient.

<b>Acute Oral Toxicity</b>	female rat: LD50: > 300 - < 2,000 mg/kg
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**Acute Dermal Toxicity** male rat: LD50: 1,400 mg/kg

female rat: LD50: 800 mg/kg

**Acute Inhalation Toxicity** male/female combined rat: LC50: > 2.1 mg/l  
Exposure time: 4 h  
Determined in the form of a respirable aerosol.  
(actual)

male/female combined rat: LC50: > 8.4 mg/l  
Exposure time: 1 h  
Determined in the form of a respirable aerosol.  
Extrapolated from the 4 hr LC50.  
(actual)

**Skin Irritation** rabbit: Slight irritation.

**Eye Irritation** rabbit: Severe eye irritation.

**Sensitization** guinea pig: sensitizing

**Chronic Toxicity** Glufosinate-ammonium caused kidney effects and/or mortality at high dose levels in chronic toxicity studies in rats, mice and dogs.

#### Assessment Carcinogenicity

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

#### ACGIH

None.

#### NTP

None.

#### IARC

None.

#### OSHA

None.

#### Reproductive & Developmental Toxicity

**REPRODUCTION:** Glufosinate-ammonium was not a primary reproductive toxicant in rats. There was a decrease in the number of viable pups at the high dose in conjunction with maternal toxicity.

**DEVELOPMENTAL TOXICITY:** Glufosinate-ammonium was not a primary developmental toxicant in rats and rabbits. Developmental effects (e.g., delayed ossifications) were observed in rats but were considered secondary to maternal toxicity.

#### Neurotoxicity

Glufosinate-ammonium was not a neurotoxicant in acute and subacute neurotoxicity screening studies in rats. In a developmental neurotoxicity study in rats, offspring exposed to glufosinate-ammonium showed increases in locomotor activities. These effects occurred at high doses and in conjunction with maternal toxicity.



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

**SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity to Fish**

Bluegill sunfish  
 LC50: 56 - 75 mg/l  
 Exposure time: 96 h

Oncorhynchus mykiss (rainbow trout)  
 LC50: 26.7 mg/l  
 Exposure time: 96 h

Cyprinus carpio (Carp)  
 LC50: 28 - 42 mg/l  
 Exposure time: 96 h

**Toxicity to Aquatic Plants** Desmodemus subspicatus  
 EC50: 36 mg/l  
 Exposure time: 72 h

**Acute Toxicity to Aquatic Invertebrates**

Daphnia  
 EC50: 15 - 27 mg/l  
 Exposure time: 48 h

Mysidopsis bahia (mysid shrimp)  
 LC50: 43.2 mg/l  
 Exposure time: 96 h

Oyster  
 Shell Deposition  
 EC50: 15.8 mg/l  
 Exposure time: 96 h

Oyster  
 Embryo larvae  
 EC50: 2.65 mg/l  
 Exposure time: 48 h

Quahog Clam  
 Embryo larvae  
 EC50: 3.8 mg/l  
 Exposure time: 48 h

**Toxicity to other organisms**

Japanese quail  
 LD50: > 2,000 mg/kg

earthworms



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LC50: > 1,000 ppm  
Exposure time: 14 d

**Bioaccumulation**

BCF: 7  
The value mentioned relates to the active ingredient glufosinate-ammonium.

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

Do not allow to get into surface water, drains and ground water.

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

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance**

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

**Container Disposal**

Follow advice on product label and/or leaflet.

**SECTION 14. TRANSPORT INFORMATION**

TRANSPORTATION CLASSIFICATION;  
Not Regulated for 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**

**US Federal Regulations**

**TSCA list**

None.

**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**



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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.

**Canadian Regulations**

**Canadian Domestic Substance List**

None.

**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)**

Glufosinate ammonium 77182-82-2

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**SECTION 16. OTHER INFORMATION**

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NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 2      Reactivity - 1      Others - none

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

Reason to Revise: Section 14: Transportation Information

Revision Date: 04/24/2007

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