

# SAFETY DATA SHEET



## IGNITE® SN HERBICIDE

Version 2.0 / CDN  
102000021443

1/12  
Revision Date: 05/19/2016  
Print Date: 02/21/2017

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

#### Product identifier

**Trade name** IGNITE® SN HERBICIDE

**Product code (UVP)** 79461976

**SDS Number** 102000021443

**PCP Registration No.** 28532

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

**Use** Herbicide

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

#### Information on supplier

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

**Responsible Department** Email: SDSINFO.BCS-NA@bayer.com

#### Emergency telephone no.

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

**Product Information Telephone Number** 1-888-283-6847

### SECTION 2: HAZARDS IDENTIFICATION

#### Classified in accordance with Part 2 of the Hazardous Products Regulations

Serious eye damage: Category 1

Reproductive toxicity: Category 1B

Specific target organ toxicity - repeated exposure: Category 2

Acute toxicity(Dermal): Category 3

Acute toxicity(Oral, Inhalation): Category 4

Flammable liquids: Category 3

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### Labelling in accordance with Part 2 of the Hazardous Products Regulations



**Signal word:** Danger

#### Hazard statements

Causes serious eye damage.  
May damage fertility or the unborn child.  
May cause damage to organs (Nervous system) through prolonged or repeated exposure.  
Toxic in contact with skin.  
Harmful if swallowed or if inhaled.  
Flammable liquid and vapour.

#### Precautionary statements

Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor/ physician.  
IF exposed or concerned: Get medical advice/ attention.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
Specific treatment (see supplemental first aid instructions on this label).  
Wash contaminated clothing before reuse.  
IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.  
Rinse mouth.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
Store locked up.  
Store in a well-ventilated place. Keep cool.  
Dispose of contents/container in accordance with local regulation.

#### Hazards Not Otherwise Classified (HNOC)

No physical hazards not otherwise classified.  
No health hazards not otherwise classified.

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Glufosinate ammonium	77182-82-2	13.5
Alkylethersulfate, sodium salt	68891-38-3	44.1
1-Methoxy-2-propanol	107-98-2	10.0

### 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>	If large amounts are ingested, the following symptoms may occur:, Hyperthermia, Dyspnoea, Bradycardia, Ataxia, Diarrhoea, Convulsions, Liver and kidney injuries may occur., Respiratory failure
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#### Indication of any immediate medical attention and special treatment needed

<b>Risks</b>	Ingestion may cause liver damage. Dangerous amounts can be absorbed through the skin. More severe effects if alcohol is consumed. Risk of bronchopneumonia in case of prolonged exposure. Poisoning affects the central nervous system.
<b>Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

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### SECTION 5: FIREFIGHTING MEASURES

#### Extinguishing media

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

**Unsuitable** High volume water jet

**Special hazards arising from the substance or mixture** Dangerous gases are evolved in the event of a fire.

#### Advice for firefighters

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

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

**Flash point** 57 °C  
The product does not sustain combustion.

**Auto-ignition temperature** 455 °C / 851 °F

**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** Keep unauthorized people away. Isolate hazard area. 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.

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**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** 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.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition. Take measures to prevent the build up of electrostatic charge.

**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** Keep away from direct sunlight. 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 and out of the reach of children, preferably in a locked storage area.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.  
Do not store together with oxidizing agents. Do not store near acids.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Glufosinate ammonium	77182-82-2	0.9 mg/m3 (TWA)		OES BCS*
1-Methoxy-2-propanol	107-98-2	369 mg/m3/100 ppm (TWA)	07 2009	CAD AB OEL
1-Methoxy-2-propanol	107-98-2	553 mg/m3/150 ppm (STEL)	07 2009	CAD AB OEL
1-Methoxy-2-propanol	107-98-2	50 ppm (TWA)	09 2011	CAD BC OEL

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1-Methoxy-2-propanol	107-98-2	75 ppm (STEL)	09 2011	CAD BC OEL
1-Methoxy-2-propanol	107-98-2	50 ppm (TWA)	03 2013	CAD MB OEL
1-Methoxy-2-propanol	107-98-2	100 ppm (STEL)	03 2013	CAD MB OEL
1-Methoxy-2-propanol	107-98-2	100 ppm (TWAEV)	11 2010	CAD ON OEL
1-Methoxy-2-propanol	107-98-2	150 ppm (STEV)	11 2010	CAD ON OEL
1-Methoxy-2-propanol	107-98-2	100 ppm (8 HR ACL)	05 2009	CAD SK OEL
1-Methoxy-2-propanol	107-98-2	150 ppm (15 MIN ACL)	05 2009	CAD SK OEL
1-Methoxy-2-propanol	107-98-2	369 mg/m3/100 ppm (TWA)	11 2011	OEL (QUE)
1-Methoxy-2-propanol	107-98-2	553 mg/m3/150 ppm (STEL)	11 2011	OEL (QUE)

\*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 nitrile rubber gloves

#### Eye protection

Safety glasses, in case of increased risk, also a face shield

#### Skin and body protection

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

#### General protective measures

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

#### Appearance

blue to blue green

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<b>Physical State</b>	Liquid
<b>Odor</b>	aromatic
<b>Odour Threshold</b>	No data available
<b>pH</b>	5.4 - 7.4 at 10 % (23 °C) (deionized water)
<b>Vapor Pressure</b>	No data available
<b>Vapor Density (Air = 1)</b>	No data available
<b>Density</b>	1.11 g/cm <sup>3</sup> at 20 °C
<b>Evaporation rate</b>	No data available
<b>Boiling Point</b>	ca. 99 °C / 210.2 °F at 1.013 hPa
<b>Melting / Freezing Point</b>	No data available
<b>Water solubility</b>	at 20 °C: miscible
<b>Minimum Ignition Energy</b>	Not applicable
<b>Decomposition temperature</b>	> 200 °C
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Viscosity</b>	No data available
<b>Flash point</b>	57 °C The product does not sustain combustion.
<b>Auto-ignition temperature</b>	455 °C / 851 °F
<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

<b>Reactivity</b>	
<b>Thermal decomposition</b>	> 200 °C
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.

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<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	Strong oxidizing agents, Acids, Bases
<b>Hazardous decomposition products</b>	Ammonia

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Exposure routes</b>	Skin Absorption, Ingestion, Inhalation, Eye contact
<b>Immediate Effects</b>	
<b>Eye</b>	Causes eye irritation.
<b>Skin</b>	Harmful or fatal if absorbed through the skin.
<b>Ingestion</b>	Harmful if swallowed.

#### Information on toxicological effects

<b>Acute oral toxicity</b>	LD50 (male Rat) 2,270 mg/kg LD50 (female Rat) 1,730 mg/kg LD50 (male/female combined Rat) 2,000 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (male Rat) 2.97 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.  LC50 (female Rat) 3.91 mg/l Exposure time: 4 h Determined in the form of liquid aerosol.
<b>Acute dermal toxicity</b>	LD50 (male Rat) 537 mg/kg LD50 (female Rat) 642 mg/kg LD50 (male/female combined Rat) 593 mg/kg
<b>Skin irritation</b>	Mild skin irritation. (Rabbit)
<b>Eye irritation</b>	Corrosive - causes irreversible eye damage. (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.  
Alkylethersulfate, sodium salt did not cause specific target organ toxicity in experimental animal studies.

#### Assessment mutagenicity

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

#### Assessment carcinogenicity

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



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Alkylethersulfate, sodium salt 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.

Alkylethersulfate, sodium salt did not cause reproductive toxicity in a two-generation study in rats.

### 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.

Alkylethersulfate, sodium salt did not cause developmental toxicity in rats and rabbits.

### 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>Toxicity to fish</b>	LC50 (Pimephales promelas (fathead minnow)) 461 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient glufosinate-ammonium.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) > 560 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient glufosinate-ammonium.
<b>Toxicity to aquatic plants</b>	EC50 (Desmodesmus subspicatus (green algae)) 1,129 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient glufosinate-ammonium.
<b>Biodegradability</b>	Glufosinate-ammonium: Not rapidly biodegradable Alkylethersulfate, sodium salt: rapidly biodegradable

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<b>Koc</b>	Glufosinate-ammonium: Koc: 2.3
<b>Bioaccumulation</b>	Glufosinate-ammonium: Bioconcentration factor (BCF) < 1 Does not bioaccumulate. Alkylethersulfate, sodium salt: Does not bioaccumulate.
<b>Mobility in soil</b>	Glufosinate-ammonium: Highly mobile in soils Alkylethersulfate, sodium salt: soluble in water
<b>Environmental precautions</b>	Do not allow to get into surface water, drains and ground water. Do not apply when weather conditions favor runoff or drift. Drift or runoff from treated areas may adversely affect non-target plants. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

<b>Product</b>	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Dispose of contents/container in accordance with local regulation.
<b>Contaminated packaging</b>	Do not re-use empty containers. Follow advice on product label and/or leaflet.

## SECTION 14: TRANSPORT INFORMATION

### TDG

UN number	<b>2902</b>
Labels	6.1
Packaging group	III
Proper shipping name	PESTICIDE, LIQUID, TOXIC, N.O.S. (GLUFOSINATE-AMMONIUM)

### 49CFR

UN number	<b>2902</b>
Class	6.1
Packaging group	III
Proper shipping name	PESTICIDES, LIQUID, TOXIC, N.O.S. (GLUFOSINATE-AMMONIUM)

### IMDG

UN number	<b>2902</b>
Class	6.1
Packaging group	III
Marine pollutant	NO

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Proper shipping name                      PESTICIDE, LIQUID, TOXIC, N.O.S.  
(GLUFOSINATE-AMMONIUM SOLUTION)

### IATA

UN number                                      **2902**  
Class    6.1  
Packaging group                                III  
Environm. Hazardous Mark                  NO  
Proper shipping name                        PESTICIDE, LIQUID, TOXIC, N.O.S.  
(GLUFOSINATE-AMMONIUM 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.

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## SECTION 15: REGULATORY INFORMATION

**PCP Registration No.**                      28532

### 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

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

1-Methoxy-2-propanol	107-98-2	CA, CT, MN
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### Canadian Regulations

#### Canadian Domestic Substance List

Alkylethersulfate, sodium salt	68891-38-3
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.

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### SECTION 16: OTHER INFORMATION

#### Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

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

Health - 2      Flammability - 2      Instability - 1      Others - none

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

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

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

**Reason for Revision:** Revised according to the current Canadian WHMIS standard (WHMIS 2015).

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

**Revision Date:** 05/19/2016

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