



Safety Data Sheet

PARDNER® HERBICIDE

SDS Number: 102000023743

SDS Version 1.1

Revision Date: 05/20/2013

Print Date: 05/23/2013

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name	PARDNER® HERBICIDE
SDS Number	102000023743
Product code (UVP)	79933169
PCP Registration No.	18001
Product Use	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! Avoid contact with skin, eyes and clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling.

Physical State	Liquid
Odor	characteristic
Appearance	light brown
Exposure routes	Eye contact, Skin contact, Ingestion, Inhalation
Immediate Effects	
Eye	Causes eye irritation. Avoid contact with eyes.
Skin	May be harmful if absorbed through skin. May cause slight irritation. Avoid contact with skin and clothing.
Ingestion	May be harmful if swallowed. Aspiration of the swallowed or vomited product can cause severe pulmonary complications. Do not take internally.
Inhalation	May be harmful if inhaled. Avoid breathing spray mist.
Chronic or Delayed Long-Term	This product or its components may have long term (chronic) health effects.



Safety Data Sheet

PARDNER® HERBICIDE

SDS Number: 102000023743
SDS Version 1.1

Potential Environmental Effect Toxic to aquatic organisms. This product may cause adverse effects on non-target plants.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Bromoxynil octanoate, heptanoate mixed ester		26.00
Naphthalene	91-20-3	4.70
2-Methylpropan-1-ol	78-83-1	1.70
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5	54.90

SECTION 4. FIRST AID MEASURES

General	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Eye	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Skin	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.
Ingestion	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.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Notes to physician	
Hazards	Contains hydrocarbon solvents. May pose an aspiration pneumonia hazard.
Treatment	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5. FIRE FIGHTING MEASURES

Flash point	63 °C / 145 °F
Autoignition temperature	443 °C / 829 °F



Safety Data Sheet

PARDNER® HERBICIDE

SDS Number: 102000023743
SDS Version 1.1

Lower Flammability Limit	no data available
Upper Flammability Limit	7 %(V)
Explosiveness	no data available
Fire and Explosion Hazards	Dangerous gases are evolved in the event of a fire.
Suitable extinguishing media	Carbon dioxide (CO2), Dry chemical, Foam
Fire Fighting Instructions	<p>Keep out of smoke. Fight fire from upwind position. Avoid contact with spilled product or contaminated surfaces. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.</p> <p>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.</p>

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

SECTION 7. HANDLING AND STORAGE

Handling procedures	<p>Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation.</p> <p>Keep away from heat and sources of ignition.</p>
Storing Procedures	<p>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.</p> <p>Protect from freezing.</p>



Safety Data Sheet

PARDNER® HERBICIDE

SDS Number: 102000023743
SDS Version 1.1

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. Remove contaminated clothing immediately and dispose of safely. Garments that cannot be cleaned must be destroyed (burnt). 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. Train employees in safe use of the product. 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/Face Protection	Chemical resistant goggles must be worn.
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

Bromoxynil octanoate	1689-99-2	OES BCS*	TWA	0.21 mg/m3	
		Naphthalene	OES BCS*	TWA	10 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 MB OEL	STEL	15 ppm
			CAD MB OEL	TWA	10 ppm
			CAD ON OEL	STEV	15 ppm
			CAD ON OEL	TWAEV	10 ppm
			CAD SK OEL	15 MIN ACL	15 ppm
			CAD SK OEL	8 HR ACL	10 ppm
			OEL (QUE)	STEL	15 ppm
OEL (QUE)	TWA	10 ppm			
2-Methylpropan-1-ol	78-83-1	CAD AB OEL	TWA	50 ppm	
		CAD BC OEL	TWA	50 ppm	

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



Safety Data Sheet

PARDNER® HERBICIDE

SDS Number: 102000023743
SDS Version 1.1

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	light brown
Physical State	Liquid
Odor	characteristic
pH	4.3 (1 %) at 25 °C
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Density	ca. 1.08 g/cm ³ at 20 °C
Evaporation rate	no data available
Boiling Point	no data available
Melting / Freezing Point	no data available
Water solubility	dispersible
Minimum Ignition Energy	not applicable
Decomposition temperature	not applicable
Partition coefficient: n-octanol/water	no data available
Viscosity	26 mPa.s at 25 °C

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	freezing Heat, flames and sparks.
Incompatibility	Acids Bases Oxidizing agents
Hazardous Decomposition Products	Carbon dioxide (CO ₂) Hydrogen bromide (HBr) Nitrogen oxides (NO _x) Carbon monoxide



Safety Data Sheet

PARDNER® HERBICIDE

SDS Number: 102000023743
SDS Version 1.1

Hazardous reactions No dangerous reaction known under conditions of normal use.
Chemical Stability Stable under recommended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity rat: LD50: 368 mg/kg
Acute dermal toxicity rabbit: LD50: > 2,000 mg/kg
Chronic toxicity Bromoxynil octanoate, heptanoate mixed ester caused specific target organ toxicity in experimental animal studies in the following organ(s): liver. The observed effects do not appear to be relevant for humans.

Assessment Carcinogenicity

Bromoxynil octanoate, heptanoate mixed ester caused at high dose levels an increased incidence of tumours in mice in the following organ(s): liver. The mechanism of tumour formation is not considered to be relevant to man.

ACGIH
None.
NTP
None.
IARC
None.
OSHA
None.

Reproductive toxicity Bromoxynil octanoate, heptanoate mixed ester did not cause reproductive toxicity in a two-generation study in rats.
Developmental Toxicity Bromoxynil octanoate, heptanoate mixed ester caused a delayed foetal growth, an increased incidence of non-specific malformations. Bromoxynil octanoate, heptanoate mixed ester caused developmental toxicity only at dose levels toxic to the dams.
Mutagenicity Bromoxynil octanoate, heptanoate mixed ester was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

SECTION 12. ECOLOGICAL INFORMATION

Environmental precautions 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. Apply this product as specified on the label.



Safety Data Sheet

PARDNER® HERBICIDE

SDS Number: 102000023743
SDS Version 1.1

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Do not contaminate water, food, or feed by disposal. Dispose in accordance with all local, state/provincial and federal regulations. Follow container label instructions for disposal of wastes generated during use in compliance with the product label.

Container Disposal Do not re-use empty containers. Triple rinse containers. Add washings to sprayer at time of filling. 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.

SECTION 14. TRANSPORT INFORMATION

TDG

UN number **2902**
Labels 6.1
Packaging group III
Marine pollutant Marine pollutant
Description of the goods PESTICIDE, LIQUID, TOXIC, N.O.S. (BROMOXYNIL)

49CFR

UN number **2902**
Class 6.1
Packaging group III
Marine pollutant Marine pollutant
Description of the goods PESTICIDES, LIQUID, TOXIC, N.O.S. (BROMOXYNIL, NAPHTHALENE)
RQ Reportable Quantity is reached with 2,127 lb of product.

IMDG

UN number **2902**
Class 6.1
Packaging group III
Marine pollutant YES
Description of the goods PESTICIDE, LIQUID, TOXIC, N.O.S. (BROMOXYNIL SOLUTION)

IATA

UN number **2902**
Class 6.1
Packaging group III
Environm. Hazardous Mark NO
Description of the goods PESTICIDE, LIQUID, TOXIC, N.O.S. (BROMOXYNIL SOLUTION)



Safety Data Sheet

PARDNER® HERBICIDE

SDS Number: 102000023743
SDS Version 1.1

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. 18001

US Federal Regulations

TSCA list

Naphthalene	91-20-3
2-Methylpropan-1-ol	78-83-1
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5

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	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, MN, NJ
2-Methylpropan-1-ol	78-83-1	CA, CT, MN

Canadian Regulations

Canadian Domestic Substance List

Naphthalene	91-20-3
2-Methylpropan-1-ol	78-83-1
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5

Environmental

CERCLA

Naphthalene	91-20-3	100 lbs
2-Methylpropan-1-ol	78-83-1	5,000 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
2-Methylpropan-1-ol	78-83-1



Safety Data Sheet

PARDNER® HERBICIDE

SDS Number: 102000023743
SDS Version 1.1

Solvent Naphtha (petroleum), heavy aromatic 64742-94-5

SECTION 16. OTHER INFORMATION

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: Reviewed and updated for general editorial purposes. The following sections have been revised: Section 3: Composition / Information on Ingredients.

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

Revision Date: 05/20/2013

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 registered trademarks of Bayer.

