

# SAFETY DATA SHEET



## PRIWEN™ 500 EC FUNGICIDE

Version 2.0 / CDN  
102000007367

1/10  
Revision Date: 12/21/2018  
Print Date: 01/02/2019

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

#### Product identifier

**Trade name** PRIWEN™ 500 EC FUNGICIDE

**Product code (UVP)** 06280714

**SDS Number** 102000007367

**PCP Registration No.** 31959

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

**Use** Fungicide

**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

Eye irritation, Skin sensitisation: Category 1

Skin irritation, Specific target organ toxicity - repeated exposure, Reproductive toxicity: Category 2

Acute toxicity(Oral, Inhalation): Category 4

#### Labelling in accordance with Part 3 of the Hazardous Products Regulations



**Signal word:** Danger

#### Hazard statements

Causes serious eye damage.

May cause an allergic skin reaction.

Causes skin irritation.

# SAFETY DATA SHEET



## PRIWEN™ 500 EC FUNGICIDE

Version 2.0 / CDN  
102000007367

2/10  
Revision Date: 12/21/2018  
Print Date: 01/02/2019

May cause damage to organs (Eyes) through prolonged or repeated exposure.  
Suspected of damaging fertility or the unborn child.  
Harmful if swallowed.  
Harmful if inhaled.

### Precautionary statements

Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Contaminated work clothing should not be allowed out of the workplace.  
Wash thoroughly after handling.  
Do not breathe mist or vapours.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
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 ON SKIN: Wash with plenty of water/ soap.  
If skin irritation or rash occurs: Get medical advice/ attention.  
Specific treatment (see supplemental first aid instructions on this label).  
Take off contaminated clothing and wash before reuse.  
Get medical advice/ attention if you feel unwell.  
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.  
Call a POISON CENTER/doctor/physician if you feel unwell.  
Store locked up.  
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.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Spiroxamine	118134-30-8	49.8
Benzyl alcohol	100-51-6	25.2
Dodecylbenzenesulphonic acid, compound with 2-aminoethanol (1:1)	26836-07-7	12.5
Ethoxylated polyaryphenol	99734-09-5	12.5

## SECTION 4: FIRST AID MEASURES

### Description of first aid measures

**General advice** When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

# SAFETY DATA SHEET



## PRIWEN™ 500 EC FUNGICIDE

Version 2.0 / CDN  
102000007367

3/10  
Revision Date: 12/21/2018  
Print Date: 01/02/2019

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<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

**Symptoms** No symptoms known or expected.

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

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

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## SECTION 5: FIREFIGHTING MEASURES

### Extinguishing media

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

**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** In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

**Flash point** 108 °C

**Auto-ignition temperature** 265 °C / 509 °F

**Lower explosion limit** No data available

**Upper explosion limit** No data available

# SAFETY DATA SHEET



## PRIWEN™ 500 EC FUNGICIDE

Version 2.0 / CDN  
10200007367

4/10  
Revision Date: 12/21/2018  
Print Date: 01/02/2019

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**Explosivity** Not explosive  
92/69/EEC, A.14 / OECD 113

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### 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. Keep in suitable, closed containers for disposal.

**Additional advice** Use personal protective equipment. Do not allow product to contact non-target plants. If the product is accidentally spilled, 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.  
Information regarding waste disposal, see section 13.

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### 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.

**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. 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 original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

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# SAFETY DATA SHEET



## PRIWEN™ 500 EC FUNGICIDE

Version 2.0 / CDN  
102000007367

5/10  
Revision Date: 12/21/2018  
Print Date: 01/02/2019

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Spiroxamine	118134-30-8	0.6 mg/m <sup>3</sup> (SK-SEN)		OES BCS*

\*OES BCS: Internal Bayer AG, Crop Science Division "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

Chemical resistant goggles must be worn.

##### 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	yellow to brown
Physical State	Liquid clear to slightly turbid
Odor	aromatic
Odour Threshold	No data available
pH	9.4 (ca.) (1 %) (23 °C) (deionized water)
Vapor Pressure	No data available
Vapor Density (Air = 1)	No data available
Density	ca. 1.00 g/cm <sup>3</sup> (20 °C)
Evaporation rate	No data available
Boiling Point	No data available
Melting / Freezing Point	No data available
Water solubility	emulsifiable
Minimum Ignition Energy	Not applicable

# SAFETY DATA SHEET



## PRIWEN™ 500 EC FUNGICIDE

Version 2.0 / CDN  
102000007367

6/10  
Revision Date: 12/21/2018  
Print Date: 01/02/2019

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<b>Decomposition temperature</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Viscosity</b>	82 mPa.s ( 20 °C) Velocity gradient 150 /s
<b>Flash point</b>	108 °C
<b>Auto-ignition temperature</b>	265 °C / 509 °F
<b>Lower explosion limit</b>	No data available
<b>Upper explosion limit</b>	No data available
<b>Explosivity</b>	Not explosive 92/69/EEC, A.14 / OECD 113
<b>Other information</b>	Further safety related physical-chemical data are not known.

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### SECTION 10: STABILITY AND REACTIVITY

#### Reactivity

<b>Thermal decomposition</b>	No data available
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>Incompatible materials</b>	Strong oxidizing agents, Strong acids
<b>Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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### SECTION 11: TOXICOLOGICAL INFORMATION

<b>Exposure routes</b>	Eye contact, Skin contact, Inhalation, Ingestion
<b>Immediate Effects</b>	
<b>Eye</b>	Causes eye irritation.
<b>Skin</b>	May cause skin irritation.
<b>Ingestion</b>	Harmful or fatal if swallowed.
<b>Inhalation</b>	Harmful if inhaled.
<b>Information on toxicological effects</b>	
<b>Acute oral toxicity</b>	LD50 (Rat) > 500 - < 1,000 mg/kg Test conducted with a similar formulation.

# SAFETY DATA SHEET



## PRIWEN™ 500 EC FUNGICIDE

Version 2.0 / CDN  
102000007367

7/10  
Revision Date: 12/21/2018  
Print Date: 01/02/2019

<b>Acute inhalation toxicity</b>	LC50 (Rat) 2.323 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol. Test conducted with a similar formulation.
<b>Acute dermal toxicity</b>	LD50 (male/female combined Rat) > 2,000 mg/kg Test conducted with a similar formulation.
<b>Skin corrosion/irritation</b>	Irritating to skin. (Rabbit) Test conducted with a similar formulation.
<b>Serious eye damage/eye irritation</b>	Severe eye irritation. (Rabbit) Test conducted with a similar formulation.
<b>Respiratory or skin sensitisation</b>	Skin: Non-sensitizing. (Guinea pig) OECD Test Guideline 406, Buehler test Skin: Sensitising (Mouse) OECD Test Guideline 429, local lymph node assay (LLNA)

### Assessment STOT Specific target organ toxicity – repeated exposure

Spiroxamine caused specific target organ toxicity in experimental animal studies in dogs in the following organ(s): Eyes.

### Assessment mutagenicity

Spiroxamine was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

### Assessment carcinogenicity

Spiroxamine was not carcinogenic in lifetime feeding studies in rats and mice.

### ACGIH

None.

### NTP

None.

### IARC

None.

### OSHA

None.

### Assessment toxicity to reproduction

Spiroxamine caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Spiroxamine is related to parental toxicity.

### Assessment developmental toxicity

Spiroxamine caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Spiroxamine are related to maternal toxicity.

### Further information

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

# SAFETY DATA SHEET



## PRIWEN™ 500 EC FUNGICIDE

Version 2.0 / CDN  
102000007367

8/10  
Revision Date: 12/21/2018  
Print Date: 01/02/2019

---

### SECTION 12: ECOLOGICAL INFORMATION

<b>Toxicity to fish</b>	LC50 (Oncorhynchus mykiss (rainbow trout)) 11.5 mg/l Exposure time: 96 h Test conducted with a similar formulation.
<b>Toxicity to aquatic invertebrates</b>	EC50 (Daphnia magna (Water flea)) 10.3 mg/l Exposure time: 48 h Test conducted with a similar formulation.
<b>Toxicity to aquatic plants</b>	EC50 (Desmodesmus subspicatus (green algae)) 0.029 mg/l Growth rate; Exposure time: 72 h Test conducted with a similar formulation.
<b>Biodegradability</b>	Spiroxamine: Not rapidly biodegradable
<b>Koc</b>	Spiroxamine: Koc: 2415
<b>Bioaccumulation</b>	Spiroxamine: Bioconcentration factor (BCF) 87 Does not bioaccumulate.
<b>Mobility in soil</b>	Spiroxamine: Slightly mobile in soils
<b>Additional ecological information</b>	No other effects to be mentioned.
<b>Environmental precautions</b>	Do not allow to get into surface water, drains and ground water. Do not allow to get into surface water, drains and ground water. 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. Apply this product as specified on the label.

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### SECTION 13: DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	
<b>Product</b>	Dispose in accordance with all local, state/provincial and federal regulations. Follow advice on product label and/or leaflet.
<b>Contaminated packaging</b>	Triple rinse containers. Do not re-use empty containers. Puncture container to avoid re-use. Follow advice on product label and/or leaflet.

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# SAFETY DATA SHEET



## PRIWEN™ 500 EC FUNGICIDE

Version 2.0 / CDN  
10200007367

9/10  
Revision Date: 12/21/2018  
Print Date: 01/02/2019

### SECTION 14: TRANSPORT INFORMATION

#### TDG

UN number	<b>3082</b>
Labels	9
Packaging group	III
Marine pollutant	Marine pollutant
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIROXAMINE, BENZYLALCOHOL)

#### 49CFR

Not dangerous goods / not hazardous material

#### IMDG

UN number	<b>3082</b>
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SPIROXAMINE, BENZYLALCOHOL 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. (SPIROXAMINE, BENZYLALCOHOL 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.

Further Information	Exempt from regulation when transported by road or rail, in accordance with TDG Regulations 1.45.1. This exemption provides that this product does not require dangerous goods shipping documentation or safety marks when transported on land by road or rail.
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### SECTION 15: REGULATORY INFORMATION

PCP Registration No. 31959

# SAFETY DATA SHEET



## PRIWEN™ 500 EC FUNGICIDE

Version 2.0 / CDN  
102000007367

10/10  
Revision Date: 12/21/2018  
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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 - 1      Instability - 1      Others - none

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

Health - 2      Flammability - 1      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:** 12/21/2018

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