

## **LUNA PRIVILEGE GREENHOUSE FUNGICIDE**

Version 1.0 / CDN Revision Date: 04/04/2016
102000018148 Print Date: 06/30/2016

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

**Product identifier** 

Trade name LUNA PRIVILEGE GREENHOUSE FUNGICIDE

**Product code (UVP)** 79373821, 84446521

**SDS Number** 102000018148

PCP Registration No. 32208

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

**Use** Fungicide, Nematicide

**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

This material is not hazardous under the criteria of Part 2 of the Hazardous Products 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
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 Fluopyram
 658066-35-4
 41.5

 1,2-Propanediol
 57-55-6
 6.67

 Polyethylene-polypropylene copolymer
 9003-11-6
 1.67



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## **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.

**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.

**Skin contact** 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.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation

develops and persists.

**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.

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.

#### **SECTION 5: FIREFIGHTING MEASURES**

**Extinguishing media** 

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

Unsuitable High volume water jet

Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride,

Carbon monoxide (CO), Nitrogen oxides (NOx)

Advice for firefighters

Special protective equipment for firefighters

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 > 100 °C



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Auto-ignition temperatureNo data availableLower explosion limitNo data availableUpper explosion limitNo data availableExplosivityNot explosive

92/69/EEC, A.14 / OECD 113

#### **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.

**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 Use only in area provided with appropriate exhaust ventilation. Handle

and open container in a manner as to prevent spillage.

**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

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. Protect from freezing.



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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

## **Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Fluopyram	658066-35-4	0.34 mg/m3 (TWA)		OES BCS*
1,2-Propanediol (Vapor and aerosol, inhalable fraction.)	57-55-6	155 mg/m3/50 ppm (TWAEV)	11 2010	CAD ON OEL
1,2-Propanediol (Aerosol.)	57-55-6	10 mg/m3 (TWAEV)	11 2010	CAD ON OEL

<sup>\*</sup>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 with side-shields

**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 white to beige

Physical State suspension

Odor characteristic

Odour Threshold No data available

**pH** 5.0 - 8.0 at 100 % (23 °C)

Vapor Pressure No data available
Vapor Density (Air = 1) No data available

Density ca. 1.20 g/cm³ at 20 °C

**Evaporation rate** No data available



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**Boiling Point**Melting / Freezing Point
No data available
No data available

Water solubility dispersible

Minimum Ignition Energy Not applicable

Decomposition No data available temperature

Partition coefficient: n-

octanol/water

Not applicable

Viscosity 200 - 400 mPaxs Velocity gradient 20 /s

Flash point > 100 °C

Auto-ignition temperatureNo data availableLower explosion limitNo data availableUpper explosion limitNo data availableExplosivityNot explosive

92/69/EEC, A.14 / OECD 113

**Other information** Further safety related physical-chemical data are not known.

#### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity

Thermal decomposition No data available

**Chemical stability** Stable under recommended storage conditions.

Possibility of hazardous

reactions

No hazardous reactions when stored and handled according to

prescribed instructions.

**Conditions to avoid** Extremes of temperature and direct sunlight.

Incompatible materials No data available

**Hazardous decomposition** 

products

No decomposition products expected under normal conditions of use.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

**Exposure routes** Ingestion, Skin Absorption, Inhalation, Eye contact

**Immediate Effects** 

**Skin** The product may be absorbed through the skin. Harmful if absorbed

through skin.

**Ingestion** Harmful if swallowed.



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## Information on toxicological effects

Acute oral toxicity LD50 (Rat) > 2,000 mg/kg

Acute inhalation toxicity LC50 (Rat) > 1.911 mg/l

Exposure time: 4 h

Determined in the form of liquid aerosol. Highest attainable concentration.

Acute dermal toxicityLD50 (Rat) > 2,000 mg/kgSkin irritationNo skin irritation (Rabbit)Eye irritationNo eye irritation (Rabbit)SensitisationNon-sensitizing. (Mouse)

OECD Test Guideline 429, local lymph node assay (LLNA)

#### Assessment repeated dose toxicity

Fluopyram did not cause specific target organ toxicity in experimental animal studies.

## **Assessment mutagenicity**

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

#### Assessment carcinogenicity

Fluopyram caused at high dose levels an increased incidence of tumours in rats in the following organ(s): Liver.

Fluopyram caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Thyroid.

The tumours seen with Fluopyram were caused through a non-genotoxic mechanism, which is not relevant at low doses. The mechanism that triggers these tumours is not relevant to humans.

# ACGIH

None.

**NTP** 

None.

**IARC** 

None.

**OSHA** 

None.

#### Assessment toxicity to reproduction

Fluopyram 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 Fluopyram is related to parental toxicity.

#### Assessment developmental toxicity

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

#### **Further information**



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Only acute toxicity studies have been performed on the formulated product. The non-acute information pertains to the active ingredient(s).

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Toxicity to fish** LC50 (Cyprinus carpio (Carp)) > 200 mg/l

Exposure time: 96 h

Toxicity to aquatic

EC50 (Daphnia magna (Water flea)) 141 mg/l

**invertebrates** Exposure time: 48 h

Growth rate; Exposure time: 72 h

EC50 (Lemna gibba (gibbous duckweed)) 8.1 mg/l

Growth rate; Exposure time: 7 d

Test conducted with a similar formulation.

Biodegradability Fluopyram:

Not rapidly biodegradable

**Koc** Fluopyram: Koc: 279

**Bioaccumulation** Fluopyram: Bioconcentration factor (BCF) 18

Does not bioaccumulate.

**Mobility in soil** Fluopyram: Moderately mobile in soils

Additional ecological

information

No other effects to be mentioned.

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 apply when weather conditions favor runoff or drift.

Drift and runoff from treated areas may be hazardous to aquatic

organisms in adjacent sites.

Apply this product as specified on the label.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste treatment methods

**Product** Improper disposal of excess pesticide, spray mixture, or rinsate is a

violation of Federal Law.

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.

**Contaminated packaging** Do not re-use empty containers.

Triple rinse containers.



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Completely empty container into application equipment, then dispose of empty container in a sanitary landfill, by incineration or by other procedures approved by state/provincial and local authorities.

If burned, stay out of smoke.

Follow advice on product label and/or leaflet.

#### **SECTION 14: TRANSPORT INFORMATION**

**TDG** 

UN number 3082
Labels 9
Packaging group III

Marine pollutant Marine pollutant

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(FLUOPYRAM)

**49CFR** Not dangerous goods / not hazardous material

**IMDG** 

UN number 3082
Class 9
Packaging group III
Marine pollutant YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(FLUOPYRAM SOLUTION)

**IATA** 

UN number 3082
Class 9
Packaging group III
Environm. Hazardous Mark YES

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(FLUOPYRAM 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. 32208

**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** 

1,2-Propanediol 57-55-6 MN

**Canadian Regulations** 

**Canadian Domestic Substance List** 

1,2-Propanediol 57-55-6 Polyethylene-polypropylene copolymer 9003-11-6

**Environmental** 

**CERCLA** 

None.

**Clean Water Section 307 Priority Pollutants** 

None

Safe Drinking Water Act Maximum Contaminant Levels

None.

#### **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 US. IARC Monographs on Occupational Exposures to Chemical Agents

IATA International Air Transport Association
IMDG International Maritime Dangerous Goods

N.O.S. Not otherwise specified



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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 - 0 Others - none

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

Health - 2 Flammability - 1 Physical Hazard - 0 PPE -

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

Reason for Revision: New Safety Data Sheet.

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

**Revision Date: 04/04/2016** 

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