

# Lumiscend

Version Revision Date: SDS Number: Date of last issue: -

1.0 08/04/2022 750075100510 Date of first issue: 08/04/2022

Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

**SECTION 1. IDENTIFICATION** 

Product name : Lumiscend
Other means of identification : No data available

Manufacturer or supplier's details

**COMPANY IDENTIFICATION** 

Manufacturer/importer : CORTEVA AGRISCIENCE CANADA COMPANY

#2450, 215 - 2ND STREET S.W.

CALGARY AB, T2P 1M4

**CANADA** 

**Customer Information** 

Number

: 800-667-3852

E-mail address : solutions@corteva.com

**Emergency telephone** 

number

CANUTEC

1-888-226-8832

Recommended use of the chemical and restrictions on use

Recommended use : Fungicide

**SECTION 2. HAZARDS IDENTIFICATION** 

GHS classification in accordance with the Hazardous Products Regulations

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Short-term (acute) aquatic

hazard

Category 1

**GHS** label elements

Hazard pictograms







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Signal word : Warning

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.

H400 Very toxic to aquatic life.

Precautionary statements : Prevention:

P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/

doctor if you feel unwell. P391 Collect spillage.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

#### Components

Chemical name	Common	CAS-No.	Concentration (% w/w)
	Name/Synonym		
Inpyrfluxam	Inpyrfluxam	1352994-67-2	34.05
Glycerol	Glycerol	56-81-5	>= 3 - < 9 *
Balance	Balance	Not Assigned	>= 55 - < 65 *

Actual concentration or concentration range is withheld as a trade secret

## **SECTION 4. FIRST AID MEASURES**

General advice : Have the product container or label with you when calling a

poison control center or doctor, or going for treatment.

If inhaled : Move person to fresh air. If person is not breathing, call an

emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment

advice.

In case of skin contact : Take off contaminated clothing. Wash skin with soap and

plenty of water for 15-20 minutes. Call a poison control center

or doctor for treatment advice.

In case of eye contact : Hold eyes open and rinse slowly and gently with water for 15-



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20 minutes. Remove contact lenses, if present, after the first 5

minutes, then continue rinsing eyes. Call a poison control

center or doctor for treatment advice.

If swallowed : Call a poison control center or doctor immediately for treat-

ment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison

control center or doctor. None known.

Most important symptoms and effects, both acute and

delayed

Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES** 

Suitable extinguishing media : Water spray

Alcohol-resistant foam

Unsuitable extinguishing

media

None known.

Specific hazards during fire-

fighting

Exposure to combustion products may be a hazard to health. Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

During a fire, smoke may contain the original material in addi-

tion to combustion products of varying composition which may

be toxic and/or irritating.

Combustion products may include and are not limited to:

Carbon oxides

Nitrogen oxides (NOx) Hydrogen chloride gas

Hydrogen cyanide (hydrocyanic acid)

Specific extinguishing meth-

ods

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essarv.

Use personal protective equipment.

**SECTION 6. ACCIDENTAL RELEASE MEASURES** 

Personal precautions, protective equipment and emer-

gency procedures

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so.





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Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Prevent from entering into soil, ditches, sewers, underwater.

See Section 12, Ecological Information.

Methods and materials for containment and cleaning up

Clean up remaining materials from spill with suitable absorb-

ant.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can

be pumped,

Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-

pressurization of the container.

Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece).

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

See Section 13, Disposal Considerations, for additional infor-

mation.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Do not breathe vapours/dust.

Do not smoke.

Handle in accordance with good industrial hygiene and safety

practice.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take care to prevent spills, waste and minimize release to the

environment.

Use appropriate safety equipment. For additional information,

refer to Section 8, Exposure Controls and Personal Protection.

Conditions for safe storage : Store in a closed container.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Keep in properly labelled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Strong oxidizing agents

Packaging material : Unsuitable material: None known.

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

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parame- ters / Permissible	Basis
		exposure)	concentration	



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Glycerol	56-81-5	TWA (Mist)	10 mg/m3	CA AB OEL
		TWA (Mist)	10 mg/m3	CA BC OEL
		TWA (Res-	3 mg/m3	CA BC OEL
		pirable mist)		
		TWAEV	10 mg/m3	CA QC OEL
		(Mist)		

**Engineering measures** : Use only with adequate ventilation.

Personal protective equipment

Respiratory protection : Use with local exhaust ventilation.

Eye protection : Wear chemical safety goggles or equivalent eye protection. Skin and body protection : Remove contaminated clothing immediately, wash skin area

with soap and water, and launder clothing before reuse or

dispose of properly.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : off-white

Odour : Rancid

Odour Threshold : No data available

pH : 6.9 (25 °C)

Melting point/range : Not applicable

Freezing point No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1.12 g/cm3 (20 °C)

Solubility(ies)

Water solubility : No data available

Auto-ignition temperature : No data available



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Viscosity

Viscosity, dynamic : 114 cP ( 20 °C)

Explosive properties : No data available

Oxidizing properties : No data available

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability: No decomposition if stored and applied as directed.

Stable under normal conditions.

Possibility of hazardous reac-

tions

Stable under recommended storage conditions.

No hazards to be specially mentioned.

None known.

Conditions to avoid Incompatible materials

Hazardous decomposition

products

None known. None.

Decomposition products depend upon temperature, air supply

and the presence of other materials.

Decomposition products can include and are not limited to:

Carbon oxides

Nitrogen oxides (NOx)

Hydrogen cyanide (hydrocyanic acid)

Hydrogen chloride gas

### **SECTION 11. TOXICOLOGICAL INFORMATION**

## **Acute toxicity**

**Product:** 

Acute oral toxicity : LD50 (Rat): 550 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.19 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

**Components:** 

Glycerol:

Acute oral toxicity : LD50 (Rat): > 11,500 mg/kg

Remarks: Excessive exposure may cause:

Central nervous system effects. Observations in humans include: Altered blood sugar levels.

Acute inhalation toxicity : LC50 (Rat): > 2.75 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Symptoms: No deaths occurred following exposure to a satu-



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rated atmosphere.

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Guinea pig): >= 56,750 mg/kg

Skin corrosion/irritation

**Product:** 

Species : Rabbit

Assessment : No skin irritation

**Components:** 

Glycerol:

Result : No skin irritation

Serious eye damage/eye irritation

**Product:** 

Species : Rabbit

Assessment : No eye irritation

**Components:** 

Glycerol:

Result : No eye irritation

Respiratory or skin sensitisation

**Product:** 

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Germ cell mutagenicity

**Components:** 

Glycerol:

Germ cell mutagenicity -

: In vitro genetic toxicity studies were negative.

Assessment

Carcinogenicity

**Components:** 

Glycerol:

Carcinogenicity - Assess-

ment

For the major component(s):, Did not cause cancer in labora-

tory animals.



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#### Reproductive toxicity

### **Components:**

### Glycerol:

Reproductive toxicity - As-

sessment

Reproductive effects seen in female animals are believed to be due to altered nutritional states resulting from extremely

high doses of glycerine given in the diet. Similar effects have

been seen in animals fed synthetic diets.

Did not cause birth defects or any other fetal effects in labora-

tory animals.

### STOT - single exposure

#### Components:

#### Glycerol:

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

### Repeated dose toxicity

### **Components:**

## Glycerol:

Remarks : Excessive exposure to glycerine may cause increased fat

levels in blood.

# **Aspiration toxicity**

## **Components:**

### Glycerol:

Based on physical properties, not likely to be an aspiration hazard.

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

## **Components:**

## Inpyrfluxam:

Toxicity to fish : LC50 (Rainbow trout (Oncorhynchus mykiss)): 0.031 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.1 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

: EC50 (Pseudokirchneriella subcapitata (green algae)): 23 mg/l

Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

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M-Factor (Chronic aquatic

toxicity)

: 10

Glycerol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): >= 885 mg/l

Exposure time: 96 h Test Type: static test

Method: Method Not Specified.

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 1,955 mg/l

Exposure time: 48 h Test Type: static test

Method: Method Not Specified.

Toxicity to algae/aquatic

plants

EC50 (Other): 2,900 mg/l

End point: Growth inhibition (cell density reduction)

Exposure time: 192 h Test Type: static test

Method: Method Not Specified.

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l

Exposure time: 3 h Method: OECD 209 Test

### Persistence and degradability

#### **Components:**

Glycerol:

Biodegradability : Result: Readily biodegradable.

Remarks: Material is readily biodegradable. Passes OECD

test(s) for ready biodegradability.

Biodegradation: 63 % Exposure time: 14 d

Method: OECD Test Guideline 301C or Equivalent

Remarks: 10-day Window: Not applicable

ThOD : 1.22 kg/kg

### Bioaccumulative potential

# **Components:**

Glycerol:

Partition coefficient: n-

octanol/water

log Pow: -1.76 (20 °C) Method: Measured

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).

Balance:

Partition coefficient: n-

octanol/water

: Remarks: No relevant data found.



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#### Mobility in soil

### **Components:**

### Glycerol:

Distribution among environ-

mental compartments

Koc: 1

Method: Estimated.

Remarks: Potential for mobility in soil is very high (Koc be-

tween 0 and 50).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an im-

portant fate process.

#### Balance:

Distribution among environ-

mental compartments

Remarks: No relevant data found.

### Other adverse effects

# **Components:**

#### Glycerol:

Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is readily biodegradable and thus is not considered persistent or very persistent (P

or vP).

Ozone-Depletion Potential

Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

#### **Balance:**

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

Ozone-Depletion Potential

Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

## Disposal methods

Waste from residues

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regu-

If the material as supplied becomes a waste, follow all appli-

cable regional, national and local laws.



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#### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**UNRTDG** 

**UN** number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Inpyrfluxam)

Class 9 Packing group Ш Labels 9

**IATA-DGR** 

UN 3082 UN/ID No.

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

(Inpyrfluxam)

Class

Packing group Ш Labels Miscellaneous

964

Packing instruction (cargo

aircraft)

Packing instruction (passen-964

ger aircraft)

**IMDG-Code** 

**UN** number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Inpyrfluxam)

Class 9 Ш Packing group

Labels 9 **EmS Code** F-A, S-F

Marine pollutant

Remarks Stowage category A

# Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### **National Regulations**

**TDG** 

**UN** number UN 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Inpyrfluxam)

Class 9 Ш Packing group Labels 9 **ERG Code** 171

Marine pollutant yes(Inpyrfluxam)

#### **Further information**

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass



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per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

For Canadian Ground transportation TDG Exemption: 1.45.1 Marine Pollutants (Part 3, Documentation, and Part 4, Dangerous Goods Safety Marks, do not apply if they are in transport solely on land by road vehicle or railway vehicle).

# Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **SECTION 15. REGULATORY INFORMATION**

### The components of this product are reported in the following inventories:

DSL : This product contains components that are not listed on the

Canadian DSL nor NDSL.

Pest Control Products Act ( PCPA ) Registration Number : 34469

Read the PCPA label, authorized under the Pest Control Products Act, prior to using or handling this pest control product.

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. Following is the hazard information required on the pest control products label:

PCPA Label Hazard Communications:

Read the label and booklet before using. Keep out of reach of children.

## WARNING POISON

This product is toxic to: Aquatic organisms Birds Small wild mammals Non-target terrestrial plants

## **SECTION 16. OTHER INFORMATION**

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

# Full text of other abbreviations

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table

2: OEL)

CA BC OEL : Canada. British Columbia OEL

CA QC OEL : Québec. Regulation respecting occupational health and safe-



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ty, Schedule 1, Part 1: Permissible exposure values for air-

borne contaminants

CA AB OEL / TWA : 8-hour Occupational exposure limit CA BC OEL / TWA : 8-hour time weighted average

CA QC OEL / TWAEV : Time-weighted average exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative: WHMIS - Workplace Hazardous Materials Information System

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**CA / 6N**