

# SAFETY DATA SHEET



## Lumiderm™ Insecticide Seed Treatment

Version 1.1      Revision Date: 03/14/2022      SDS Number: 800080000495      Date of last issue: 03/14/2022  
Date of first issue: 03/14/2022

---

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 the United States and may not meet the regulatory requirements in other countries.

---

### SECTION 1. IDENTIFICATION

Product name : Lumiderm™ Insecticide Seed Treatment

#### Manufacturer or supplier's details

#### COMPANY IDENTIFICATION

Manufacturer/importer : CORTEVA AGRISCIENCE LLC  
9330 ZIONSVILLE RD  
INDIANAPOLIS, IN, 46268-1053  
UNITED STATES

Customer Information Number : 1-800-258-3033

E-mail address : customerinformation@corteva.com

Emergency telephone : INFOTRAC (CONTRACT 84224).  
800-992-5994 or 317-337-6009

#### Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

Restrictions on use : Do not use product for anything outside of the above specified uses.

---

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### GHS label elements

Not a hazardous substance or mixture.

#### Other hazards

None known.

---

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

™ ® Trademarks of Corteva Agriscience and its affiliated companies.

## Lumiderm™ Insecticide Seed Treatment

Version 1.1      Revision Date: 03/14/2022      SDS Number: 800080000495      Date of last issue: 03/14/2022  
 Date of first issue: 03/14/2022

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
cyantraniliprole	736994-63-1	50
Propanediol	57-55-6	$\geq 3 - < 10$
Glycerol	56-81-5	$\geq 3 - < 10$
Palygorskite	12174-11-7	$\geq 0.3 - < 1$
Balance	Not Assigned	$> 20$

Actual concentration 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. For medical emergencies involving this product, call toll free 1-888-226-8832. See Label for Additional Precautions and Directions for Use. Information presented in Section 4 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory Agencies.
- If inhaled : Move to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Call a poison control center or doctor for treatment advice.
- In case of skin contact : The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable. Consult a physician if necessary.
- In case of eye contact : The material is not likely to be hazardous by eye contact, but flushing the eye if contact occurs is advisable. Consult a physician if necessary.
- If swallowed : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- Most important symptoms and effects, both acute and delayed : No cases of human intoxication are known and the symptoms of experimental intoxication are not known.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING 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.
- Hazardous combustion products : During a fire, smoke may contain the original material in addition to combustion products of varying composition which may

## Lumiderm™ Insecticide Seed Treatment

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2022
1.1	03/14/2022	800080000495	Date of first issue: 03/14/2022

---

be toxic and/or irritating.

Combustion products may include and are not limited to:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides

- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Evacuate area.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray to cool unopened containers.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.

---

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Environmental precautions : Discharge into the environment must be avoided.  
Prevent further leakage or spillage if safe to do so.  
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.
- Methods and materials for containment and cleaning up : Clean up remaining materials from spill with suitable absorbent.  
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).  
See Section 13, Disposal Considerations, for additional information.

---

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Do not breathe vapors/dust.  
Handle in accordance with good industrial hygiene and safety practice.

## Lumiderm™ Insecticide Seed Treatment

Version 1.1      Revision Date: 03/14/2022      SDS Number: 800080000495      Date of last issue: 03/14/2022  
 Date of first issue: 03/14/2022

- Smoking, eating and drinking should be prohibited in the application 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.  
 Keep in properly labeled 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

## Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propanediol	57-55-6	TWA	10 mg/m <sup>3</sup>	US WEEL
Glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m <sup>3</sup>	OSHA Z-1
		TWA (mist, total dust)	15 mg/m <sup>3</sup>	OSHA Z-1

- Engineering measures** : Ensure adequate ventilation, especially in confined areas.  
 Use sufficient ventilation to keep employee exposure below recommended limits.

Information presented in Section 8 conforms to the requirements of the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard of 2012. See Section 15 for applicable information conforming to the requirements of the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as required by the US Environmental Protection Agency (EPA), or by state Regulatory

**Personal protective equipment**

- Respiratory protection : Where there is potential for airborne exposures in excess of applicable limits, wear approved respiratory protection with organic vapour cartridge.

Hand protection

- Remarks : Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), poten-

## Lumiderm™ Insecticide Seed Treatment

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2022
1.1	03/14/2022	800080000495	Date of first issue: 03/14/2022

---

Eye protection	:	tial body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Use safety glasses (with side shields).
Skin and body protection	:	Applicators and other handlers must wear: Long sleeved shirt and long pants Shoes plus socks Chemical resistant gloves made of any waterproof material
Protective measures	:	Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
Hygiene measures	:	Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing.

---

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	off-white
Odor	:	characteristic
Odor Threshold	:	not determined
pH	:	5 - 7
Melting point/range	:	Not applicable
Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	> 248 °F / > 120 °C Method: closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	The product is not flammable.
Self-ignition	:	not auto-flammable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available

**Lumiderm<sup>™</sup> Insecticide Seed Treatment**

Version 1.1      Revision Date: 03/14/2022      SDS Number: 800080000495      Date of last issue: 03/14/2022  
Date of first issue: 03/14/2022

---

Relative density : 1.2435

Density : 1.0 - 1.5 g/cm<sup>3</sup>

Solubility(ies)  
Water solubility : dispersible

Viscosity  
Viscosity, dynamic : 155 mPa.s  
150 rpm

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

---

**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 reactions : Stable under recommended storage conditions.  
No hazards to be specially mentioned.  
None known.

Conditions to avoid : None known.

Incompatible materials : Strong acids  
Strong bases

Hazardous decomposition products : Decomposition products depend upon temperature, air supply  
and the presence of other materials.  
Decomposition products can include and are not limited to:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon oxides

---

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat): > 2.2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 402

---

**Lumiderm™ Insecticide Seed Treatment**

Version 1.1      Revision Date: 03/14/2022      SDS Number: 800080000495      Date of last issue: 03/14/2022  
Date of first issue: 03/14/2022

---

**Components:****cyantraniliprole:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: Estimated.

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

**Propanediol:**

Acute oral toxicity : LD50 (Rat): > 20,000 mg/kg

Acute inhalation toxicity : LC50 (Rabbit): 317.042 mg/l  
Exposure time: 2 h  
Test atmosphere: dust/mist  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Mist may cause irritation of upper respiratory tract (nose and throat).

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Symptoms: No deaths occurred at this concentration.  
Assessment: The substance or mixture has no acute dermal toxicity

**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 saturated atmosphere.  
Assessment: The substance or mixture has no acute inhalation toxicity

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

**Skin corrosion/irritation****Product:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

**Lumiderm<sup>™</sup> Insecticide Seed Treatment**

Version 1.1      Revision Date: 03/14/2022      SDS Number: 800080000495      Date of last issue: 03/14/2022  
Date of first issue: 03/14/2022

---

**Components:****Propanediol:**

Species : Rabbit  
Result : No skin irritation

**Glycerol:**

Result : No skin irritation

**Serious eye damage/eye irritation****Product:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

**Components:****Propanediol:**

Species : Rabbit  
Result : No eye irritation

**Glycerol:**

Result : No eye irritation

**Respiratory or skin sensitization****Product:**

Test Type : Buehler Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitization.  
Method : OECD Test Guideline 406

**Components:****Propanediol:**

Species : human  
Assessment : Does not cause skin sensitization.

**Germ cell mutagenicity****Components:****cyantraniliprole:**

Germ cell mutagenicity - Assessment : Animal genetic toxicity studies were negative.

**Propanediol:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., Animal genetic toxicity studies were negative.



## Lumiderm™ Insecticide Seed Treatment

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2022
1.1	03/14/2022	800080000495	Date of first issue: 03/14/2022

---

**Glycerol:**

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative.

**Carcinogenicity****Components:****cyantraniliprole:**

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

**Propanediol:**

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

**Glycerol:**

Carcinogenicity - Assessment : For the major component(s);, Did not cause cancer in laboratory animals.

**Palygorskite:**

Carcinogenicity - Assessment : Contains component(s) which have caused cancer in some laboratory animals.

**IARC** Group 2B: Possibly carcinogenic to humans  
Palygorskite 12174-11-7

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity****Components:****cyantraniliprole:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals.

**Propanediol:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction., In animal studies, did not interfere with fertility. Did not cause birth defects or any other fetal effects in laboratory animals.

**Glycerol:**

Reproductive toxicity - Assessment : 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.

**Lumiderm<sup>™</sup> Insecticide Seed Treatment**

Version 1.1      Revision Date: 03/14/2022      SDS Number: 800080000495      Date of last issue: 03/14/2022  
Date of first issue: 03/14/2022

---

Did not cause birth defects or any other fetal effects in laboratory animals.

**STOT-single exposure****Product:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Components:****cyantraniliprole:**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

**Propanediol:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Glycerol:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

**Palygorskite:**

Assessment : Available data are inadequate to determine single exposure specific target organ toxicity.

**Repeated dose toxicity****Components:****cyantraniliprole:**

Remarks : In animals, effects have been reported on the following organs:  
Liver  
Blood  
thyroid

**Propanediol:**

Remarks : In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

**Glycerol:**

Remarks : Excessive exposure to glycerine may cause increased fat levels in blood.

## Lumiderm™ Insecticide Seed Treatment

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2022
1.1	03/14/2022	800080000495	Date of first issue: 03/14/2022

---

### Palygorskite:

Remarks : In animals, effects have been reported on the following organs:  
Lung.

### Aspiration toxicity

#### Product:

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

#### Components:

##### **cyantraniliprole:**

Based on available information, aspiration hazard could not be determined.

##### **Propanediol:**

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

##### **Glycerol:**

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

##### **Palygorskite:**

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

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **cyantraniliprole:**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 12.6 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.0204 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 13 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to fish (Chronic toxicity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 10.7 mg/l Exposure time: 28 d Test Type: Early Life-Stage Method: OECD Test Guideline 210
		NOEC (Cyprinodon variegatus (sheepshead minnow)): 2.9 mg/l

## Lumiderm™ Insecticide Seed Treatment

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2022
1.1	03/14/2022	800080000495	Date of first issue: 03/14/2022

---

Exposure time: 28 d  
 Test Type: Early Life-Stage  
 Method: US EPA Test Guideline OPPTS 850.1400

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.00656 mg/l  
 Exposure time: 21 d  
 Test Type: Static-Renewal  
 Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to terrestrial organisms : oral LD50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg  
 dietary LC50 (Anas platyrhynchos (Mallard duck)): > 5,620 ppm

**Propanediol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l  
 Exposure time: 96 h  
 Test Type: static test  
 Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 19,000 mg/l  
 End point: Growth rate inhibition  
 Exposure time: 96 h  
 Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (water flea)): 13,020 mg/l  
 End point: number of offspring  
 Exposure time: 7 d  
 Test Type: semi-static test

Toxicity to microorganisms : NOEC (Pseudomonas putida): > 20,000 mg/l  
 Exposure time: 18 h

**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.

## Lumiderm™ Insecticide Seed Treatment

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2022
1.1	03/14/2022	800080000495	Date of first issue: 03/14/2022

---

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****Product:**

Biodegradability : Remarks: Not readily biodegradable.  
 Estimation based on data obtained on active ingredient.

**Components:****cyantraniliprole:**

Biodegradability : Result: Not readily biodegradable.

**Propanediol:**

Biodegradability : aerobic  
 Result: Readily biodegradable.  
 Biodegradation: 81 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301F or Equivalent  
 Remarks: 10-day Window: Pass

Biodegradation: 96 %  
 Exposure time: 64 d  
 Method: OECD Test Guideline 306 or Equivalent  
 Remarks: 10-day Window: Not applicable

Biochemical Oxygen Demand (BOD) : 69.000 %  
 Incubation time: 5 d

70.000 %  
 Incubation time: 10 d

86.000 %  
 Incubation time: 20 d

Chemical Oxygen Demand (COD) : 1.53 kg/kg  
 ThOD : 1.68 kg/kg

Photodegradation : Rate constant: 1.28E-11 cm<sup>3</sup>/s  
 Method: Estimated.

**Glycerol:**

Biodegradability : Result: Readily biodegradable.

## Lumiderm™ Insecticide Seed Treatment

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2022
1.1	03/14/2022	800080000495	Date of first issue: 03/14/2022

---

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****Product:**

Bioaccumulation : Remarks: Does not bioaccumulate.  
 Estimation based on data obtained on active ingredient.

**Components:****Propanediol:**

Bioaccumulation : Bioconcentration factor (BCF): 0.09  
 Method: Estimated.

Partition coefficient: n-octanol/water : log Pow: -1.07  
 Method: Measured  
 Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Glycerol:**

Partition coefficient: n-octanol/water : log Pow: -1.76 (68 °F / 20 °C)  
 Method: Measured  
 Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Palygorskite:**

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

**Balance:**

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: The product is not expected to be mobile in soils.

**Components:****Propanediol:**

Distribution among environmental compartments : Koc: < 1  
 Method: Estimated.  
 Remarks: Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be

## Lumiderm™ Insecticide Seed Treatment

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2022
1.1	03/14/2022	800080000495	Date of first issue: 03/14/2022

---

an important fate process.  
Potential for mobility in soil is very high (Koc between 0 and 50).

**Glycerol:**

Distribution among environmental compartments : Koc: 1  
Method: Estimated.  
Remarks: Potential for mobility in soil is very high (Koc between 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 important fate process.

**Palygorskite:**

Distribution among environmental compartments : Remarks: No relevant data found.

**Balance:**

Distribution among environmental compartments : Remarks: No relevant data found.

**Other adverse effects****Product:**

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

**Components:****Propanediol:**

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

**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.

**Palygorskite:**

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

## Lumiderm™ Insecticide Seed Treatment

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2022
1.1	03/14/2022	800080000495	Date of first issue: 03/14/2022

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, bioaccumulation 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 regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

UN number : UN 3082  
 Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cyantraniliprole)  
 Class : 9  
 Packing group : III  
 Labels : 9

**IATA-DGR**

UN/ID No. : UN 3082  
 Proper shipping name : Environmentally hazardous substance, liquid, n.o.s. (cyantraniliprole)  
 Class : 9  
 Packing group : III  
 Labels : Miscellaneous  
 Packing instruction (cargo aircraft) : 964  
 Packing instruction (passenger aircraft) : 964



## Lumiderm™ Insecticide Seed Treatment

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2022
1.1	03/14/2022	800080000495	Date of first issue: 03/14/2022

---

**IMDG-Code**

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cyantraniliprole)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes
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.

**Domestic regulation****49 CFR**

Not regulated as a dangerous good

**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 5L or less for liquids or having a net mass 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.

**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**

**SARA 311/312 Hazards** : No SARA Hazards

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations****Pennsylvania Right To Know**

Propanediol	57-55-6
Glycerol	56-81-5

**California Prop. 65**

WARNING: This product can expose you to chemicals including Palygorskite, which is/are known to the State of California to cause cancer, and ethanediol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**Lumiderm™ Insecticide Seed Treatment**

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2022
1.1	03/14/2022	800080000495	Date of first issue: 03/14/2022

---

**The ingredients of this product are reported in the following inventories:**

TSCA : Product contains substance(s) not listed on TSCA inventory.

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**Federal Insecticide, Fungicide and Rodenticide Act**

EPA Registration Number : 352-858

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

---

**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**

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
OSHA Z-1 / TWA : 8-hour time weighted average  
US WEEL / TWA : 8-hr TWA

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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;

# SAFETY DATA SHEET



## Lumiderm™ Insecticide Seed Treatment

Version	Revision Date:	SDS Number:	Date of last issue: 03/14/2022
1.1	03/14/2022	800080000495	Date of first issue: 03/14/2022

---

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

Revision Date : 03/14/2022

Product code: GF-4000

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.

US / EN