

# Lumialza™

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	01/26/2022	800080006436	Date of first issue: 01/26/2022

Corteva Agriscience <sup>™</sup> 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	:	Lumialza™
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	:	800-667-3852		
E-mail address	:	solutions@corteva.com		
Emergency telephone	:	CANUTEC		
number		1-888-226-8832		
Recommended use of the chemical and restrictions on use				
Recommended use	:	Seed Treatment Nematicide		
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 Hazardous Products Regulations

Acute toxicity (Inhalation) Eye irritation	: Category 4 : Category 2B	
GHS label elements		
Hazard pictograms		
Signal word	: Warning	
Hazard statements	: H320 Causes eye irritation. H332 Harmful if inhaled.	
Precautionary statements	Prevention:	
	P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area.	



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### Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.

### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
Bacillus amyloliquefa- ciens strain PTA-4838	Bacillus amylo- liquefaciens strain PTA-4838	, C	16.5
Balance	Balance	Not Assigned	83.5

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

General advice	: Never give anything by mouth to an unconscious person. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
If inhaled	: Move to fresh air. Consult a physician after significant exposure. Artificial respiration and/or oxygen may be necessary.
In case of skin contact	<ul> <li>Take off all contaminated clothing immediately.</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
In case of eye contact	<ul> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	<ul> <li>Call a poison control center of doctor for treatment advice.</li> <li>Call a poison control center or doctor for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>DO NOT induce vomiting unless directed to do so by a physician or poison control center.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>
Most important symptoms and effects, both acute and delayed	: None known.

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### **SECTION 5. FIREFIGHTING MEASURES**

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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 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.
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	:	
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures Environmental precautions	<ul> <li>Use personal protective equipment.</li> <li>Use appropriate safety equipment.</li> <li>refer to Section 8, Exposure Control</li> <li>If the product contaminates rivers a respective authorities.</li> <li>Discharge into the environment mu Prevent further leakage or spillage</li> </ul>	Use personal protective equipment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. 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. Prevent spreading over a wide area (e.g. by containment or oil
		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,undwater. See
Methods and materials for containment and cleaning up	:	<ul> <li>Section 12, Ecological Information.</li> <li>Clean up remaining materials from spill with suitable absorbant.</li> <li>Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in.</li> <li>For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped,</li> <li>Recovered material should be stored in a vented container.</li> <li>The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to overpressurization of the container.</li> <li>Keep in suitable, closed containers for disposal.</li> <li>Wipe up with absorbent material (e.g. cloth, fleece).</li> <li>Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).</li> </ul>



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		See Section mation.	13, Disposal Considerations, for additional infor-
SECTION	7. HANDLING AND S	TORAGE	
	/Total ventilation	<ul> <li>Avoid forma Provide suff Do not breat Do not smok Handle in ac practice.</li> <li>Smoking, ea plication are Do not breat Do not get ir Avoid contac Avoid prolor Keep contai Take care to environment Use appropri</li> </ul>	ating and drinking should be prohibited in the ap- a. the vapours or spray mist. n eyes. ct with skin and eyes. nged or repeated contact with skin. ner tightly closed. o prevent spills, waste and minimize release to the
Cond	itions for safe storage	•	

# Materials to avoidStore in accordance with the particular national regulations.Materials to avoidStrong oxidizing agentsPackaging materialUnsuitable material: None known.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Personal protective equipment

:	Dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P or HE filter.
:	Chemical-resistant gloves
:	Wear a face-shield which allows use of chemical goggles, or wear a full-face respirator, to protect face and eyes when there is any likelihood of splashes.
:	Applicators and other handlers must wear:
	Long sleeved shirt and long pants Chemical resistant gloves made of any waterproofmaterial
	Shoes plus socks
	PPE required for early entry to treated areas that is permitted
	underthe Worker Protection Standard and that involves con- tact with anythingthat has been treated, such as plants, soil,
	or water, is:
	Coveralls
	Chemical resistant gloves made of any waterproofmaterial Shoes plus socks
	Remove contaminated clothing immediately, wash skin area with soap and water. Contaminated clothing should be dis-
	••••





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Prote	ective measures	<ul> <li>posed of properly or decontaminated and laundered before reuse.</li> <li>Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hotwater. Keep and wash PPE separately from other laundry.</li> </ul>			
Hygie	ene measures	posting warnin : Wash hands th and before eat using the toilet Remove clothin Wash thorough	ng/PPE immediately if material gets inside. nly and put on clean clothing. nal protective equipment immediately after		

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	brown
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	7.3 (25 °C)
Melting point/range	:	Not applicable
Freezing point		No data available
Boiling point/boiling range	:	No data available
Flash point	:	Method: closed cup 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	:	1.205 g/cm3 (20 °C)
Solubility(ies) Water solubility	:	No data available
Auto-ignition temperature	:	No data available

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Visco V	osity iscosity, dynamic	: No data availa	ble	
Expl	osive properties	: No data availa	ble	
Oxid	izing properties	: No data availa	ble	

### SECTION 10. STABILITY AND REACTIVITY

:	Not classified as a reactivity hazard.
:	No decomposition if stored and applied as directed.
	Stable under normal conditions.
:	Stable under recommended storage conditions.
	No hazards to be specially mentioned.
	None known.
:	None known.
:	None.
:	Decomposition products depend upon temperature, air supply and the presence of other materials.
	:

### SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Product: Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg			
Acute inhalation toxicity	:	LC50 (Rat): > 2.13 mg/l Exposure time: 4 h Test atmosphere: dust/mist			
Acute dermal toxicity	:	LD50 (Rat): > 5,050 mg/kg			
Skin corrosion/irritation					
<u>Product:</u> Species Result	:	Rabbit No skin irritation			
Serious eye damage/eye irritation					
<u>Product:</u> Species Result	:	Rabbit Mild eye irritation			
Respiratory or skin sensitisation					
Product:					

Species	:	Guinea pig
Result	:	Not a skin sensitizer.

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/ersion I.0	Revision Date: 01/26/2022		DS Number: 0080006436	Date of last issue: - Date of first issue: 01/26/2022
STO	Γ - single exposure			
Com	ponents:			
Bacil	llus amyloliquefaciens	stra	ain PTA-4838:	
	ssment	:		are inadequate to determine single exposure organ toxicity.
Repe	eated dose toxicity			
<u>Com</u>	ponents:			
Bacil	llus amyloliquefaciens	stra	ain PTA-4838:	
Rema		:	No relevant dat	a found.
Aspi	ration toxicity			
<u>Com</u>	ponents:			
Base	Ilus amyloliquefaciens d on available informatio 12. ECOLOGICAL INF	on, a	spiration hazard	could not be determined.
		UKI	WATION	
	<b>oxicity</b> ata available			
	<b>istence and degradabi</b> ata available	lity		
Bioa	ccumulative potential			
<u>Com</u>	ponents:			
	n <b>ce:</b> ion coefficient: n- iol/water	:	Remarks: No re	elevant data found.
Mobi	lity in soil			
<u>Com</u>	ponents:			
	n <b>ce:</b> bution among environ- al compartments	:	Remarks: No re	elevant data found.
Othe	r adverse effects			
<u>Prod</u> Addit matic	ional ecological infor-	:	No data is avai	lable on the product itself.
<u>Com</u>	ponents:			
Bacil	llus amyloliquefaciens	stra	ain PTA-4838:	
	Its of PBT and vPvB ssment	:		has not been assessed for persistence, bioa toxicity (PBT).
Ozon	e-Depletion Potential	:		substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

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	assess	s of PBT and vPvB sment	:	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.		
SEC	CTION 1	3. DISPOSAL CONSI	DEF	ATIONS		
	Dispo	sal methods				
	Waste from residues :		to the product lab be in accordance This information p as supplied. The listing may not ap wise contaminate ator to determine material generate tion and disposal lations. If the material as	containers cannot be disposed of according el directions, disposal of this material must with your local or area regulatory authorities. oresented below only applies to the material identification based on characteristic(s) or ply if the material has been used or other- d. It is the responsibility of the waste gener- the toxicity and physical properties of the d to determine the proper waste identifica- methods in compliance with applicable regu- supplied becomes a waste, follow all appli- ational and local laws.		

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

### **International Regulations**

### UNRTDG

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

### **National Regulations**

**TDG** Not regulated as a dangerous good

### **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 : 34185

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



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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.

POTENTIAL SKIN SENSITIZER

### **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

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; 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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