This SDS adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Lumivia™ Insecticide Seed Treatment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tradename/Synonym</td>
<td>DPX-E2Y45 50 FS</td>
</tr>
<tr>
<td></td>
<td>Dermacor® X-101</td>
</tr>
<tr>
<td></td>
<td>Chlorantraniliprole: 3-Bromo-N-[4-chloro-2-methyl-6-[[methylamino]carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1H-pyrazole-5-carboxamide</td>
</tr>
<tr>
<td></td>
<td>50% Chlorantraniliprole FS</td>
</tr>
<tr>
<td>SDS Number</td>
<td>130000110079</td>
</tr>
<tr>
<td>Product Use</td>
<td>Insecticide</td>
</tr>
<tr>
<td>Manufacturer</td>
<td>Production Agriscience Canada Company</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 730, 7398 Queen's Line</td>
</tr>
<tr>
<td></td>
<td>Chatham, Ontario</td>
</tr>
<tr>
<td></td>
<td>N7M 5L1</td>
</tr>
<tr>
<td></td>
<td>Canada</td>
</tr>
<tr>
<td>Product Information</td>
<td>1-800-667-3852</td>
</tr>
<tr>
<td>Medical Emergency</td>
<td>1-800-441-3637 (24 hours)</td>
</tr>
</tbody>
</table>

**SECTION 2. HAZARDS IDENTIFICATION**

**Potential Health Effects**

**Eyes**

Chlorantraniliprole: May cause eye irritation. May cause: Tearing, redness, or discomfort.

**Carcinogenicity**

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 / 8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 4. FIRST AID MEASURES

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.

Eye contact: No specific intervention is indicated as the compound is not likely to be hazardous. If in eyes, rinse with water for 15 minutes. Consult a physician if necessary.

Inhalation: No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

Ingestion: No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.

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 1-800-441-3637. See Label for Additional Precautions and Directions for Use.

SECTION 5. FIREFIGHTING MEASURES

Flammable Properties
Flash point: No flash up to boiling point.

Auto-ignition temperature: > 600 °C (> 1112 °F)

Fire and Explosion Hazard: The product is not flammable.

Suitable extinguishing media: Water spray, Foam, Dry chemical, Carbon dioxide (CO2)

Unsuitable extinguishing media: High volume water jet, (contamination risk)
Firefighting Instructions: Wear self-contained breathing apparatus and protective suit. (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray. Control Runoff.

SECTION 6. ACCIDENTAL RELEASE MEASURES
NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel): Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Wear personal protective equipment.

Spill Cleanup: Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.

Accidental Release Measures: Prevent material from entering sewers, waterways, or low areas. Follow applicable Federal, State/Provincial and Local laws/regulations.

SECTION 7. HANDLING AND STORAGE
Handling (Personnel): 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.

Handling (Physical Aspects): The product is not flammable.

Storage: Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store product in original container only in a location inaccessible to children and pets. Store in a cool, dry place. Do not store in or around the home. Keep out of the reach of children.

Storage temperature: > 0 °C (> 32 °F)
Engineering controls: Ensure adequate ventilation, especially in confined areas. Use sufficient ventilation to keep employee exposure below recommended limits.

Personal protective equipment

Respiratory protection: See skin and body protection

Hand protection: Additional protection: See skin and body protection

Eye protection: See skin and body protection

Skin and body protection: Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Shoes plus socks

Applicators and other handlers of the diluted material must wear: shirt, pants, socks and shoes.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Long sleeved shirt and long pants
- Shoes plus socks

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.
Exposure Guidelines

Exposure Limit Values

<table>
<thead>
<tr>
<th>Chlorantraniliprole</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>AEL <em>(DuPont)</em></td>
<td>10 mg/m3</td>
<td>8 &amp; 12 hr. TWA</td>
<td>Total dust.</td>
<td></td>
</tr>
<tr>
<td>AEL <em>(DuPont)</em></td>
<td>5 mg/m3</td>
<td>8 &amp; 12 hr. TWA</td>
<td>Respirable dust.</td>
<td></td>
</tr>
</tbody>
</table>

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- **Form**: viscous liquid
- **Color**: white
- **Odor**: slight
- **pH**: 4 - 9 at 10 g/l
- **Density**: 1.23 - 1.27 g/cm³
- **Water solubility**: dispersible
- **Viscosity**: not determined

SECTION 10. STABILITY AND REACTIVITY

- **Stability**: Stable at normal temperatures and storage conditions.
- **Incompatibility**: No materials to be especially mentioned.
- **Hazardous reactions**: Polymerization will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Lumivia™ Insecticide Seed Treatment

- **Inhalation 4 h LC50**: > 4.1 mg/l, Rat
- **Dermal LD50**: > 5,000 mg/kg, Rat
Oral LD50 : > 5,000 mg/kg, Rat
Skin irritation : No skin irritation, Rabbit
Eye irritation : No eye irritation, Rabbit
Sensitisation : Animal test did not cause sensitization by skin contact, mice

Chlorantraniliprole
Repeated dose toxicity : Ingestion multiple species 90 d
No toxicologically significant effects were found.
Skin contact Rat 28 d
No toxicologically significant effects were found.

Carcinogenicity : Animal testing did not show any carcinogenic effects.

Reproductive toxicity : No toxicity to reproduction
Animal testing showed no reproductive toxicity.
No effects on or via lactation

Teratogenicity : Animal testing showed no developmental toxicity.

SECTION 12. ECOLOGICAL INFORMATION
Aquatic Toxicity
Lumivia™ Insecticide Seed Treatment
96 h LC50 : Danio rerio (zebra fish) > 7.74 mg/l
72 h ErC50 : Pseudokirchneriella subcapitata (green algae) > 7.06 mg/l
48 h EC50 : Daphnia magna (Water flea) 0.0139 mg/l

Chlorantraniliprole
90 d : NOEC Oncorhynchus mykiss (rainbow trout) 0.11 mg/l OECD Test
<table>
<thead>
<tr>
<th>Guideline 210</th>
</tr>
</thead>
<tbody>
<tr>
<td>21 d NOEC Daphnia magna (Water flea) 0.00447 mg/l OECD Test Guideline 211</td>
</tr>
</tbody>
</table>

**Environmental Fate**

**Chlorantraniliprole**

- **Biodegradability**: Not biodegradable. OECD Test Guideline 301. Not readily biodegradable.
- **Bioaccumulation**: Bioaccumulation is unlikely.
- **Additional ecological information**: Environmental Hazards: Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. See product label for additional application instructions relating to environmental precautions.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste Disposal**: Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.

**Container disposal**: Refer to the product label for instructions. Do not transport if this container is damaged or leaking.

**SECTION 14. TRANSPORT INFORMATION**

<table>
<thead>
<tr>
<th>IATA_C</th>
<th>UN number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3082</td>
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</table>

- **Proper shipping name**: Environmentally hazardous substance, liquid, n.o.s. (Chlorantraniliprole)
- **Class**: 9
- **Packing group**: III
- **Labelling No.**: 9

<table>
<thead>
<tr>
<th>IMDG</th>
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<tbody>
<tr>
<td>Proper shipping name</td>
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<tr>
<td>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorantraniliprole)</td>
</tr>
<tr>
<td>Class</td>
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<tr>
<td>9</td>
</tr>
<tr>
<td>Packing group</td>
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<tr>
<td>III</td>
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</tbody>
</table>
Material Safety Data Sheet

**Lumivia™ Insecticide Seed Treatment**

Version 3.0

**Issue Date**: 04/05/2019  
**Revision Date**: 04/01/2019  
**Ref.**: 130000110079

**Labelling No.**: 9

**Marine pollutant**: yes (Chlorantraniliprole)

Not regulated as a hazardous material by TDG.  
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 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.  
Hazardous substance: Oxamyl (100 Pounds)

### SECTION 15. REGULATORY INFORMATION

**PCP Registration #**: 32154  
**Remarks**: Regulated under the Pest Control Products Act - WHMIS exempt.  
No substances are subject to a Significant New Activity Notification.

### SECTION 16. OTHER INFORMATION

**MSDS preparation date**: 04/01/2019

(TM) Trademark of E.I. du Pont de Nemours and Company.

Contact person: Production Agriscience Canada Company, Chatham, Ontario, N7M 5L1

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.