

**\*\*Container Label\*\***

GROUP	3 4	FUNGICIDE
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# **Lixar PRO**

## **Fungicide**

A Seed Treatment Fungicide for seed and seedling protection against certain seed-borne and soil-borne diseases on labeled crops.

SUSPENSION

COMMERCIAL (AGRICULTURAL)

ACTIVE INGREDIENT:   tebuconazole.....3.0 g/L  
                                  prothioconazole...15.4 g/L  
                                  metalaxyl..... 6.2 g/L

Contains 0.0193% 1,2-Benzisothiazolin-3-one as a preservative

REGISTRATION NO. 34270 PEST CONTROL PRODUCTS ACT

DANGER – CORROSIVE TO EYES

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

PROTECT FROM FREEZING  
NET CONTENTS: 0.947 L – 1000 L

ALL SEED TREATED WITH THIS PRODUCT MUST BE CONSPICUOUSLY COLOURED

**SHARDA Cropchem Limited**  
2nd Floor, Prime Business Park  
Dashrathlal Joshi Road  
Vile Parle (West)  
Mumbai - 400056, India

Canadian Agent:  
**SHARDA Cropchem Limited**  
63 Kingsview Blvd  
Etobicoke, Ontario, CA  
M9R1V1  
1-844-810-5720  
1-416-840-5639

## GENERAL INFORMATION

Lixar PRO is a seed treatment containing the fungicides prothioconazole, tebuconazole and metalaxyl. Lixar PRO provides protection from seed, seedling and soil-borne diseases caused by certain *Ustilago* spp., *Tilletia* spp., *Fusarium* spp., *Pythium* spp., *Cochliobolus sativus*, *Pyrenophora* spp., *Aspergillus* spp., *Penicillium* spp. and *Rhizoctonia solani* on labeled crops

## PRECAUTIONS:

- KEEP OUT OF REACH OF CHILDREN.
- DANGER – Causes irreversible eye damage. Harmful if swallowed, inhaled, or absorbed through skin. DO NOT get in eyes. Wear protective eyewear. Avoid contact with skin and breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.
- Wear long pants, a long-sleeved shirt, chemical-resistant gloves, protective eyewear (goggle or face shield), shoes and socks during mixing, loading and treating. Wear long pants, a long-sleeved shirt, chemical-resistant gloves, shoes and socks during clean-up, maintenance of seed treatment equipment, bagging, sewing or stacking of bagged treated seed. In addition, workers must wear NIOSH-approved N95 (minimum) filtering facepiece respirator (dust mask) that is properly fit tested when bagging or sewing bags of treated seed or when transferring seed to a storage bin.
- Do not apply in a way that this product will contact workers or other persons. Only handlers (mixers, loaders and applicators) wearing personal protective equipment may be in the area being treated during application.
- Wear long-sleeved shirt, long pants and chemical-resistant gloves when handling treated seed.
- All bags containing treated seed must be labelled or tagged as follows: "This seed has been treated with Lixar PRO containing prothioconazole, tebuconazole and metalaxyl. Wear a long-sleeved shirt, long pants, shoes with socks and chemical-resistant gloves when handling treated seed. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil."
- When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.
- Apply only in a way that this product will not contact workers or other persons, either directly or through drift. Only workers wearing personal protective equipment may be in the area where treating, bagging, sewing and/or stacking is occurring.

## FIRST AID:

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If in eyes: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### TOXICOLOGICAL INFORMATION:

There is no specific antidote if this product is ingested. Treat symptomatically.

#### ENVIRONMENTAL PRECAUTIONS:

- TOXIC to aquatic organisms.
- This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.
- Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned up from the soil surface.

#### STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Store in a cool, dry place and avoid excessive heat. Keep away from direct sunlight. Keep container closed. To prevent contamination, store this product away from food or feed.

#### DISPOSAL:

##### FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.

##### FOR RECYCLABLE CONTAINERS:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
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#### FOR RETURNABLE CONTAINERS:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

#### FOR REFILLABLE CONTAINERS:

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not use this container for any other purpose.

**TRIPLE RINSE INSTRUCTIONS (FOR RECYCLABLE AND DISPOSABLE CONTAINERS ONLY):** This container should be triple-rinsed prior to its disposal. The rinsate can be added to the seed treatment. Follow these steps for rinsing of containers:

1. Transfer Lixar PRO from the container to the seed treating equipment applicator tank.
2. Add 1/3 of the rinse water to the container and agitate the contents.
3. Transfer the rinsate to the applicator tank.
4. Rinse as above 2 more times.
5. Thoroughly mix the Lixar PRO and rinse water in the applicator tank prior to use.

**CAUTION:** Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

#### DISPOSAL OF UNUSED, UNWANTED PRODUCT:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

#### DISPOSAL OF TREATED SEED:

Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements. Dispose of seed packaging in accordance with local requirements. **DO NOT** re-use bags from treated seed to handle food or feed products.

#### NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

**\*\*Booklet Label\*\***

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## SAFETY AND HANDLING

### PRECAUTIONS:

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- All bags containing treated seed must be labelled or tagged as follows: "This seed has been treated with Lixar PRO containing prothioconazole, tebuconazole and metalaxyl. Wear a long-sleeved shirt, long pants, shoes with socks and chemical-resistant gloves when handling treated seed. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil."
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#### FOR NON-RETURNABLE CONTAINERS:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the mixture in the tank.
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5. Thoroughly mix the Lixar PRO and rinse water in the applicator tank prior to use.

**CAUTION:** Be sure to adjust the undiluted application rate by the same volume of water added to compensate for the dilution of the product caused by the addition of rinsate.

**DISPOSAL OF UNUSED, UNWANTED PRODUCT:**

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**DISPOSAL OF TREATED SEED:**

Dispose of all excess treated seed. Left over treated seed may be double-sown around the headland or buried away from water sources in accordance with local requirements. Dispose of seed packaging in accordance with local requirements. **DO NOT** re-use bags from treated seed to handle food or feed products.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

**DIRECTIONS FOR USE**

Lixar PRO is a ready-to-use seed treatment formulation for use in commercial seed treatment operations and for on-farm treatment with conventional seed treating equipment which can accurately meter, mix and apply flowable seed treatment formulations. Allow seeds to dry



before bagging, storing or seeding. Uniform application to seed is necessary to ensure best disease protection and seed safety.

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

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#### RECOMMENDED USES

CROP	PEST	APPLICATION RATE	DIRECTIONS
<b>Barley</b>	<p><b>Control:</b></p> <p>Seed rot, pre-emergent damping-off caused by seed- and soil-borne <i>Fusarium</i> spp., <i>Cochliobolus sativus</i> and soil-borne <i>Pythium</i> spp.</p> <p>Seedling blight caused by seed-borne <i>Fusarium</i> spp., <i>Cochliobolus sativus</i> and soil-borne, <i>Fusarium</i> spp. and <i>Pythium</i> spp.</p> <p>Post-emergent damping-off caused by seed- and soil-borne <i>Fusarium</i> spp. and <i>Cochliobolus sativus</i></p> <p>Seed rot, pre-emergent damping-off, post-emergent damping-off and seedling blight caused by seed-borne <i>Aspergillus</i> spp.</p> <p>True loose smut</p> <p>Covered smut</p> <p>False loose smut</p> <p>Barley leaf stripe</p>	<p>Apply 325 mL per 100 kg of seed</p>	<p>Use only in treating equipment which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber.</p> <p>Uniform application to seed is necessary to ensure best disease protection and seed safety.</p>

<p><b>Suppression:</b></p> <p>Root and Crown rot caused by seed- and soil-borne <i>Fusarium</i> spp.</p> <p>Common root rot caused by seed- and soil-borne <i>Cochliobolus sativus</i></p> <p>Seedling blight caused by seed-borne <i>Penicillium</i> spp.</p> <p>Seed rot, pre-emergent damping off and root rot caused by <i>Rhizoctonia solani</i></p>	
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CROP	PEST	APPLICATION RATE	DIRECTIONS
<p><b>Wheat, Oats, Rye, Triticale</b></p>	<p><b>Control:</b></p> <p>Seed rot, pre-emergent damping-off caused by seed- and soil-borne <i>Fusarium</i> spp., <i>Cochliobolus sativus</i> and soil-borne <i>Pythium</i> spp.</p> <p>Seedling blight caused by seed-borne <i>Fusarium</i> spp., <i>Cochliobolus sativus</i> and soil-borne, <i>Fusarium</i> spp. and <i>Pythium</i> spp.</p> <p>Post-emergent damping-off caused by seed- and soil-borne <i>Fusarium</i> spp. and <i>Cochliobolus sativus</i></p> <p>Seed rot, pre-emergent damping-off, post-emergent damping-off and seedling blight caused by seed-borne <i>Aspergillus</i> spp.</p> <p>Loose smut (<i>Ustilago tritici</i>, <i>U. avenae</i>)</p> <p>Common bunt (<i>Tilletia tritici</i>, <i>T. laevis</i>) on wheat, rye, triticale</p> <p>Covered smut (<i>Ustilago kolleri</i>) on oats</p> <p><b>Suppression:</b></p> <p>Root and Crown rot caused by seed- and soil-borne <i>Fusarium</i> spp.</p> <p>Common root rot caused by seed- and soil-borne <i>Cochliobolus sativus</i></p> <p>Seedling blight caused by seed-borne <i>Penicillium</i> spp.</p> <p>Seed rot, pre-emergent damping off and root rot caused by <i>Rhizoctonia solani</i></p>	<p>Apply 325 mL per 100 kg of seed</p>	<p>Use only in treating equipment which can accurately control application rates and provide good distribution of the chemical onto the seed in the mixing chamber.</p> <p>Uniform application to seed is necessary to ensure best disease protection and seed safety.</p>

## TANK-MIXTURES

In some cases, tank mixing a pest control product with another pest control product or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Sharda Cropchem Limited at 1-844-810-5720 or at [www.shardacanada.ca](http://www.shardacanada.ca) for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

For control of certain insect pests, Lixar PRO may be combined with certain seed treatment insecticides.

For recommended tank-mixes, read the label directions for each product and follow the most restrictive label precautions and limitations.

<b>CROP</b>	<b>TANK-MIX PARTNER</b>
Wheat, Barley, Oats	Stress Shield

## APPLICATION CAUTIONS

**SEED QUALITY:** Lab and field studies have shown that Lixar PRO treated seed can be stored without loss in germination or disease performance. Many seed types are prone to mechanical damage during seed handling, and a reduction in germination within a seed lot can occur should handling cause seed damage irrespective of seed treatment application. Lixar PRO-treated or untreated seed may drop in germination with age and germination drops are accelerated under adverse storage conditions or in seed with a high level of mechanical damage. Use handling equipment designed to minimize mechanical damage when moving seed. Due to seed quality and seed storage conditions beyond the control of Sharda Cropchem Limited, no claims are made to guarantee the germination of carry-over seed or propagating materials for all crop seed. Treatment of highly mechanically scarred or damaged seed, or seed known to be of low vigour and poor quality, may result in reduced germination and/or reduction of seed and seedling vigour. Treat a small quantity of seed using equipment similar to that planned for treating the total seed lot. Conduct germination tests on a small portion of seed before committing the total seed lot to a selected seed treatment.

## USE LIMITATIONS

### USE RESTRICTIONS:

- Treated seed must not be used for food, feed or oil processing.

### LABELLING TREATED SEED:

All bags containing treated seed must be labelled or tagged as follows: “This seed has been treated with Lixar PRO, containing prothioconazole, tebuconazole and metalaxyl. Wear a long-sleeved shirt, long pants, shoes with socks and chemical-resistant gloves when handling treated seed. DO NOT use for feed, food or oil processing. Store away from feeds and other foodstuffs. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil.”

## RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that Lixar PRO contains Group 3 and Group 4 fungicides. Any fungal population may contain individuals naturally resistant to Lixar PRO and other Group 3 and 4 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance:

- Where possible, rotate the use of Lixar PRO or other Group 3 and 4 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Monitor fungal populations for resistance development. Notify Sharda Cropchem Limited if reduced sensitivity of the pathogen to Lixar PRO is suspected.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information and to report suspected resistance contact Sharda Cropchem Limited at 1-844-810-5720 or at [www.shardacanada.ca](http://www.shardacanada.ca).