

VITAVAX[®] FL
FLOWABLE FUNGICIDE
SUSPENSION

Contains carbathiin for the control of Loose Smut, bunt, seed rot, seedling blight and suppression of Common Root Rot on wheat. Controls True Loose Smut, Covered Smut, False Loose Smut, seed rot, seedling blight and suppression of Common Root Rot, Leaf Stripe and Net Blotch on barley. Controls Loose and Covered Smut, seed rot, seedling blight, and suppression of Common Root Rot on oats. Controls Stem Smut, seed rot, seedling blight and suppression of Common Root Rot on rye. Control of seed rot and seedling blight on flax.

COMMERCIAL/AGRICULTURAL

ACTIVE INGREDIENT: Carbathiin. 20.79%

Registration No. 27550, Pest Control Products Act

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 10-1000 Litres

Manufactured by:

UPL AgroSolutions Canada Inc.
PO Box 12219
Research Triangle Park, NC 27709

For Product Use Information Call 1-800-438-6071

**FOR CHEMICAL EMERGENCY: spill, leak, fire, exposure, or accident call
CHEMTREC 1-800-424-9300**

General Information:

VITAVAX® FL contains a systemic fungicide (carbathiin) which will control the following diseases:
BARLEY: false loose, covered and true loose smut, suppression of common root rot caused by *Cochioblolus sativus*, suppression of Leaf Stripe and Net Blotch.*

WHEAT: loose smut, bunt, seed rot, seedling blight and suppression of Common Root Rot caused by *Cochioblolus sativus*.*

OATS: loose and covered smut, seed rot, seedling blight and suppression of Common Root Rot caused by *Cochioblolus sativus*.*

FLAX: seed rot and seedling blight

RYE: stem smut, seed rot, seedling blight and suppression of Common Root Rot caused by *Cochioblolus sativus*.*

*Seed Treatment will not protect post-seedling plants from infection.

DIRECTIONS FOR USE:

Apply VITAVAX FL at the following rate to the crop indicated.

RATE OF APPLICATION:

BARLEY	240 – 300** mL/100 kg seed
WHEAT	240 – 300** mL/100 kg seed
RYE	240 mL/100 kg seed
OATS	240 mL/100 kg seed
FLAX	400 mL/100 kg seed

**For wheat and barley varieties highly susceptible to true loose smut and high levels of smut or bunt on seed, the 300 mL rate will give increased disease control.

RESISTANCE MANAGEMENT RECOMMENDATIONS: For resistance management, please note that **VITAVAX FL** contains a Group 7 fungicide. Any fungal population may contain individuals naturally resistant to **VITAVAX FL** and other Group 7 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 VITAVAX FL or other Group 7 fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide 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.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal populations for resistance development. Notify UPL AgroSolutions Canada Inc if reduced sensitivity of the pathogen to VITAVAX FL is suspected.
- If disease continues to progress after treatment with this product, do not increase the use rate. Discontinue use of this product, and switch to another fungicide with a different target site of action, if available.
- 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 UPL AgroSolutions Canada Inc at 1-800-438-6071.

USE RESTRICTIONS:

1. DO NOT use treated seed for food, feed or oil processing.
2. Do not contaminate food, feed domestic or irrigation water supplies, lakes, streams and ponds.

3. All bags containing treated seed for sale or use in Canada must be labeled or tagged as follows:

"This seed has been treated with carbathiin. Wear a long-sleeved shirt, long pants, and chemical-resistant gloves when handling treated seeds. DO NOT use treated seed for food, feed or oil processing. Store away from food and feed. Baggers, sowers and workers involved in handling treated seeds must wear a long-sleeved shirt and long pants, chemical-resistant gloves, shoes and socks, to minimize exposure to dust from treated seeds."
4. Do not store VITAVAX FL in direct sunlight. Do not store VITAVAX FL at temperatures above 35°C.
5. VITAVAX FL will not freeze solid even in extreme winter temperature.
6. Stir well before using.
7. Mixing of VITAVAX FL with other seed treatment products may result in gelling or sedimentation. Seed treater lines and reservoirs should therefore be thoroughly cleaned before changing over to VITAVAX FL.
8. For cleaning lines and reservoirs flush with water containing a detergent.
9. Seeding rate should be checked during planting.
10. Do not store treated seed.
11. Do not graze or feed livestock on treated areas for 4 weeks after planting.

PRECAUTIONS:

1. KEEP OUT OF REACH OF CHILDREN.
2. DO NOT get into eyes.
3. DO NOT ingest.
4. All workers involved in treating seeds, clean-up, repair and maintenance of seed treatment equipment must wear a long-sleeved shirt and long pants, chemical-resistant gloves, shoes and socks.
Baggers, sowers and workers involved in handling treated seeds must wear a long-sleeved shirt and long pants, chemical-resistant gloves, shoes and socks to minimize exposure to dust from treated seeds.

TOXICOLOGICAL INFORMATION: This product contains petroleum distillate. Vomiting may cause aspiration pneumonia. Treat symptomatically.

FIRST AID:

IF INHALED: Move person to fresh air. If person is not breathing, call 9 11 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.

IF SWALLOWED: Call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. 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– 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.

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

ENVIRONMENTAL PRECAUTIONS

This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning of equipment. Also, in cleaning of equipment or disposing of wastes, do not contaminate water used for human or animal consumption or by wildlife and aquatic life or for irrigation purposes.

Treated seed may be hazardous to birds and mammals. 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. Keep container closed.

DISPOSAL:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial or territorial instruction 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 or territorial requirements.
5. For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for clean-up of spills.

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.

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