

2024-1378
2024-06-04

GROUP	7 M	FUNGICIDE
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VITAVAX[®]-200

Flowable Fungicide

SUSPENSION

A combination systemic and contact seed protectant for use on soybeans destined for export only.

AGRICULTURAL

ACTIVE INGREDIENT:
Carbathiin. 195 g/L
Thiram 195 g/L

Registration No: 27555
Pest Control Products Act

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

Net Contents:

UPL AgroSolutions Canada Inc.

PO Box 12219

Research Triangle Park, NC 27709 For Product Use Information Call 1-800-438-6071

Manufactured by:

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

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DIRECTIONS FOR USE:

VITAVAX®-200 Flowable Fungicide is a combination of a systemic fungicide (carbathiin) and a contact fungicide (thiram) to control the following diseases:

SOYBEANS - *Phomopsis*, Damping-off and Seed Decay.

VITAVAX-200 Flowable Fungicide will generally increase emergence and plant stands of soybeans by reducing seedborne seed rots and seedling blights. Thorough seed coverage is required.

VITAVAX-200 Flowable Fungicide is designed to be used undiluted in commercial seed treaters, for commercial seed treatment only (facilities and mobile treaters). Undiluted **VITAVAX-200 Flowable Fungicide** can be used at temperatures down to -30°C. Treater calibration will be affected by temperature and should be rechecked on a regular basis. Centrifugal pumps are not recommended for pumping **VITAVAX-200 Flowable Fungicide**.

Lines with a minimum inside diameter of 2 cm are recommended for pumping **VITAVAX-200 Flowable Fungicide**. Polypropylene lines are preferred.

If containers of **VITAVAX-200 Flowable Fungicide** have been in storage for several months, some settling may occur and require agitation. 10L containers can be shaken and drums (200L) turned upside down for 1/2 hour and then rolled back and forth several times. This will re-suspend the settled material prior to application.

RATE OF APPLICATION:

Soybeans 230 mL/100 kg seed

GENERAL NOTES:

1. Do not store **VITAVAX-200 Flowable Fungicide** in direct sunlight. Do not store **VITAVAX-200 Flowable Fungicide** at temperatures above 35°C.
2. **VITAVAX-200 Flowable Fungicide** will not freeze solid even in extreme winter temperatures.
3. For cleaning lines and reservoirs, flush with water containing a detergent.
4. Mixing of **VITAVAX-200 Flowable Fungicide** 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-200 Flowable Fungicide**.
5. Seeding rate should be checked during planting.

STORAGE OF TREATED SEED:

VITAVAX-200 Flowable Fungicide treated soybean seed may be stored for up to 18 months without reduction in germination due to the treatment chemical.

USE RESTRICTIONS:

1. Do not use treated seeds for feed, food, or oil processing.
2. Do not contaminate food, feed domestic or irrigation water supplies, lakes, streams and ponds.
3. All containers or packages containing treated seed for sale or use in Canada must be labelled or tagged as follows: This seed has been treated with carbathiin and thiram. DO NOT use treated seed for food, feed or oil processing. Store away from food and feed. For all activities involving handling of treated seeds (including planting), wear a long sleeved-shirt, long pants, socks and shoes, and chemical-resistant gloves. Closed cab tractors must be used for planting treated seeds. Chemical-resistant gloves are not required to be worn within the closed cab, but need to be available for exiting the cab during calibration, repair or cleaning of equipment.

4. Do not graze or feed livestock on treated areas for four weeks after planting.
5. Soybean seed destined for export:
All bags containing treated soybean seed must be labeled as follows:
“For Export use only. This seed has been treated with **VITAVAX-200 Flowable Fungicide** Liquid Seed Protectant – contains carbathiin and thiram. Do not use for food, feed or oil processing. Store away from food and feed.”
For treatment of seed for export, treater should verify actual registered rate in country of destination and/or use before exportation.
6. Do not plant treated seed by broadcasting to the soil surface. Ensure that all planted seed are thoroughly covered with soil, especially in turn areas. If seeds are not thoroughly incorporated by the planter during planting, additional incorporation may be required to reduce exposed seeds. Clean-up, bury or cover all spilled seed with soil. Seeding practices, such as precision drilling, can further reduce exposure of birds and small mammals to treated seed.

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, please note that **VITAVAX-200 Flowable Fungicide** contains a Group 7 and a group M fungicide. Any fungal population may contain individuals naturally resistant to **VITAVAX-200 Flowable Fungicide** and other Group 7 or M 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-200 Flowable Fungicide** or other Group 7 or M fungicides with different groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group when such use is permitted.
- Fungicide use should be based on an IPM program that includes scouting, historical information related to pesticide use and crop rotation and considers cultural, biological and other chemical control practices.
- Monitor treated fungal populations for resistance development.
- 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.

PRECAUTIONS:

1. **KEEP OUT OF REACH OF CHILDREN.**
2. Use a closed transfer system for commercial seed treatment (facilities and mobile treaters). Closed transfer includes closed mixing, loading, calibrating and closed treatment equipment. No open transfer is permitted. When treating or handling treated seeds, cleaning seed treatment equipment, wear coveralls over a long-sleeved shirt, long pants, socks and shoes, and chemical-resistant gloves. For cleaning, the coveralls worn must be chemical-resistant. When treating and cleaning seed treatment equipment, also wear a respirator with a NIOSH approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH approved canister approved for pesticides.
3. When augering or handling **VITAVAX-200 Flowable Fungicide** treated seed, work in a well-ventilated area and wear goggles and gloves.
4. **DO NOT** get into eyes. The operator is advised to wear goggles to protect eyes from possible splashing. In case of contact with eyes, flush immediately with running water and seek medical attention.
5. Use good personal hygiene, washing hands and exposed skin before eating, drinking or smoking. No food, drink or tobacco in areas of storage or use.

SYMPTOMS OF POISONING:

Skin contact may cause irritation and dermatitis.

TOXICOLOGICAL INFORMATION:

NOTE TO PHYSICIANS: This product contains petroleum distillate. Vomiting may cause aspiration pneumonia. Treat symptomatically. There is no specific antidote.

FIRST AID:

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 Registration Number with you when seeking medical attention.

ENVIRONMENTAL HAZARDS

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 is toxic to birds and mammals. Any spilled or exposed seeds must be incorporated into the soil or otherwise cleaned-up from the soil surface.

STORAGE AND DISPOSAL:

STORAGE: Store product in original container only, away from other pesticides, fertilizer, food or feed. Keep container closed.

DISPOSAL:

1. Follow instructions on the side panel for cleaning of returnable drums and tote tanks.
2. For other containers, triple- or pressure -rinse empty container. Add the rinsings to the spray mixture in the tank.
3. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
4. Make the empty container unsuitable for further use.
5. Dispose of the container in accordance with provincial requirements.
6. 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.

INSTRUCTIONS FOR USE OF RETURNABLE DRUMS AND TOTE TANKS

RETURNABLE DRUMS

1. Remove both of the 2" buttress thread bungs from the drum. Remove the 3/4" NPT thread plugs from the center of each bung and remove the "knockout" seal.
2. Fit a 3/4" NPT galvanized steel fitting and valve to each bung and replace bungs in drum. Connect a transfer hose to one valve. Thread a galvanized elbow fitting into the other valve to allow its operation as a vent when the drum is placed horizontally.
3. Carefully place the drum in a horizontal position with the aid of a drum rocker, with the transfer valve at the lowest position and the vent at the utmost position.
4. Open both valves and transfer the chemical to a storage tank.
5. Triple rinse the drum using three 4 litre portions of water and mix the rinsate into the material in the storage tank. A nylon scrub brush on an extension handle can be used to dislodge dried or caked material. Drum washing immediately after transfer will minimize cleaning effort.
6. Reseal the cleaned drum with both the 2" bung s and 3/4" plugs in place. Wipe the exterior of the drum clean prior to transport.
7. Treating may begin once the rinse water has been added to the storage tank. Be sure to increase application rate by 6% to correct for dilution volumes.

TOTE TANKS

A. CONNECTION AND TRANSFER

1. Bring the bulk shipping tank into the chemical room and place it within reach of the transfer hose.
2. Check to make sure the 2" ball valve on the bottom of the tank is in the closed position prior to removing the camlock dust cap.
3. Remove the camlock dust cap and connect the transfer hose to the tank.
4. Loosen the top manhole cover to allow venting.

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5. Transfer the complete contents of the 1000 litre bulk shipping tank over to the storage tank.

B. TANK WASHING

If the tank washing system is separate, begin at step 1. If tank washing is conducted through a recirculation line from the transfer pump, begin at step 3.

1. Close the 2" ball valve on the tank and ball valve on the suction line. Disconnect the camlock fitting.
2. Reconnect tank washing re-circulation line and tank washing pump.
3. Load a 20 litre pail of clean cold tap water into the tank through the top manhole cover.
4. Rinse down the inside of the tank using a spray wand to direct the spray, recirculating the 20 litres of water. A nylon scrub brush on an extension handle can be used to dislodge dried or caked material. Tank washing immediately following transfer will minimize cleaning effort. **Caution: Wear protective equipment to avoid contact with spray.**
5. Collect the rinse water and add this to the 1000 litres already transferred to the storage tank. **Note: Add the rinse water slowly with the storage tank agitator on to avoid the potential of dilution shock to the VITAVAX-200 suspension.**
6. Repeat this process two more times. This provides a standard production dilution volume of 3 x 20 litres, or 60 litres in total.
7. Treating may begin once all the rinse water has been added to the storage tank and mixed in. Be sure to increase application rate by 6% to correct for dilution volumes.
8. Disconnect the hoses and reseal the tank. Be sure that the ball valve on the bottom of the tank is closed, the camlock dust cap is replaced and the manhole cover has been sealed in preparation for transport.

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on this label. It is an offense 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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