

IMPORTANT - STIR WELL BEFORE USING

Resistance Management symbols and signal words (Group 7 Fungicide)

VITAFLO[®]-250
LIQUID SUSPENSION

Systemic non-mercurial seed protectant for use on wheat, oats, barley, rye and flax. Contains carbathiin for the control of smuts, bunt, seed rots and seedling blight.

AGRICULTURAL

GUARANTEE:

Carbathiin.....25.3%

REGISTRATION NO. 13429
PEST CONTROL PRODUCTS ACT

READ THE LABEL BEFORE USING
MADE IN CANADA

NET CONTENTS
10, 200, 1000 Litres

(Crompton Logo)
Crompton Co./Cie
25 Erb St., Elmira ON N3B 3A3
24 Hour Emergency Phone:
(866) 744-3060

VITAFLO-250 contains a systemic fungicide (VITAVAX®) to control the following diseases.

Barley: false loose, covered and true loose smut
Wheat: loose smut, stinking smut or bunt
Oats: loose and covered smut
Flax: damping-off and seed decay (Rhizoctonia)
Rye: damping-off and seed decay (Rhizoctonia)

VITAFLO-250 will generally increase emergence and plant stands of barley by reducing seed-borne seed rots and seedling blights.

VITAFLO-250 has no vapour actions. Thorough seed coverage is required.

DIRECTIONS FOR USE:

Stir well before using. Before using a new drum stir contents for approximately 2 minutes with the internal hand-operated agitator. Stir as above before using if VITAFLO-250 is allowed to stand for one month or more.

TREATMENT RATE FOR UNDILUTED VITAFLO-250

Crop	mL per 100 kg seed
Oats	280
Wheat (bunt)	160
Wheat (true loose smut)	185
Barley	200
Flax	340
Rye	170

Use of VITAFLO-250 In Slurry Treaters: VITAFLO-250 can be diluted with water for use in slurry treaters. Dilute VITAFLO-250 as required to apply the specified rate of undiluted VITAFLO-250. Specific directions regarding dilution are contained in the VITAFLO-250 Operating Manual. VITAFLO-250 Operating Manual is available from you local VITAFLO dealer or by writing Crompton Co./Cie, Elmira, Ontario or Calgary, Alberta. Agitate while diluting and continue agitating for approximately two minutes after diluting. Keep in constant agitation and use within 24 hours of diluting.

Use of VITAFLO-250 in Commercial Seed Treaters other than Slurry Treaters: VITAFLO-250 should be used undiluted in all commercial seed treaters other than slurry treaters. Treater calibration should be rechecked if the VITAFLO-250 temperature falls below -18°C. Undiluted VITAFLO-250 can be used at temperatures down to -30°C.

Dipper sizes ranging from 45 mL x 5 to 60 mL x 5 for wheat, oats, rye, barley; from 85 mL x 5 to 110 mL x 5 for flax, are recommended depending on the treating rate and the type of treater. Alignment of the dippers with the fountain should be checked to ensure maximum delivery efficiency.

Centrifugal pumps are not recommended for pumping VITAFLO-250. Use of a VITAFLO PUMP is recommended. Contact your local VITAFLO-250 dealer or Crompton Co./Cie, Elmira, Ontario or Calgary, Alberta for complete information on the Vitaflo pump.

Lines with a minimum inside diameter of 2 cm are recommended for pumping VITAFLO-250. Polypropylene lines are preferred.

General Notes:

1. Do not store VITAFLO-250 in direct sunlight. Do not store VITAFLO-250 at temperatures above 35°C.
2. VITAFLO-250 will not freeze solid even in extreme winter temperatures.
3. For cleaning lines and reservoirs flush with water containing a detergent.
4. Mixing of VITAFLO-250 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 VITAFLO-250.
5. Seeding rate should be checked during planting.

Storage of Treated Seed: VITAFLO-250 treated wheat, oats, barley, rye and flax seed may be stored for up to 7 months without reduction in germination due to the treatment chemical.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that VITAFLO-250 contains a Group 7 fungicide. Any fungal population may contain individuals naturally resistant to VITAFLO-250 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 VITAFLO-250 or other Group 7 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 Crompton Co./Cie at 1-800-265-2156 or at www.cromptoncorp.com.

USE RESTRICTIONS:

1. Do not graze or feed livestock on treated areas for four weeks after planting.

2. Treated seed must be labelled as follows: "This seed has been treated with VITAFLO-250 Liquid Seed Protectant - contains carbathiin: do not use for feed or oil processing."
3. Do not contaminate feed or foodstuffs.
4. Do not contaminate ponds, lakes or streams.

PRECAUTIONS:

1. KEEP OUT OF REACH OF CHILDREN.
2. 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.
3. Use rubber gloves when handling VITAFLO-250 or treated seed since the dye in the formulation will stain the skin. To remove stains scrub with pumice soap and warm water.
4. When augering or handling VITAFLO-250 treated seed, work in a well ventilated area and wear a suitable dust mask, goggles and gloves.
5. If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-866-375-4648 or www.croplife.ca.

FIRST AID:

IF SWALLOWED: INDUCE VOMITING by giving the patient syrup of Ipecac (adult or child 12 years or older, 30 mL; child under 12, 15 mL) followed by water to enhance vomiting. Keep patient quiet, seek medical attention or contact a poison control centre IMMEDIATELY and bring the labelled container with you.

IF IN EYES: Wash IMMEDIATELY with running water for 15 minutes. Obtain medical attention.

IF ON SKIN: Wash with warm water and soap for 15 minutes.

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

TOXICOLOGICAL INFORMATION: Treat symptomatically.

DISPOSAL

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial 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 requirements.
5. 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.

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

NOTICE TO BUYER: Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of the product and accepts the product on that condition.

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