



## VALUE ON ALL CROPS

**LOVELAND VITAFLO** is a versatile seed treatment that can be used on cereals, pulses and flax with a proven track record of controlling a wide range of seed- and soil-borne diseases. **LOVELAND VITAFLO**'s unique modes of action will improve emergence, vigour and uniformity, giving your crop a healthy start.

## CEREAL CROPS

| CROP      | RATE<br>(mL/100 kg<br>of seed) | SEED &<br>SEEDLING<br>ROTS/<br>BLIGHTS | PYTHIUM<br>SEED ROT | COMMON<br>ROOT<br>ROT | LOOSE<br>SMUT | COVERED<br>SMUT | FALSE<br>LOOSE<br>SMUT | COMMON<br>BUNT | SEED-<br>BORNE<br>SEPTORIA |
|-----------|--------------------------------|--|---------------------|-----------------------|---------------|-----------------|------------------------|----------------|----------------------------|
| Wheat     | 230-330 <sup>a</sup>           | ●                                      | ●                   | ●                     | ●             |                 |                        | ●              | ●                          |
| Barley    | 230-330 <sup>a</sup>           | ●                                      | ●                   | ●                     | ●             | ●               | ●                      |                |                            |
| Oats      | 330                            | ●                                      | ●                   | ●                     | ●             | ●               |                        |                |                            |
| Rye       | 230-330 <sup>a</sup>           | ●                                      | ●                   | ●                     |               |                 |                        |                |                            |
| Triticale | 200                            | ●                                      | ●                   | ●                     |               |                 |                        |                |                            |
| Corn      | 280,<br>560-748 <sup>b</sup>   | ●                                      | ●                   | ●                     |               |                 |                        |                |                            |

<sup>a</sup> Use low rate for partial control of true loose smut in wheat/barley and stem smut in rye. Use high rate to:

- control seed borne Septoria; seed rot and seedling blight caused by *Fusarium* spp., *Cochliobolus sativus*, *Pythium* spp., *Penicillium* spp., *Aspergillus* spp., *Alternaria* spp., and dwarf bunt caused by *Tilletia controversa*
- suppress root rot caused by *Cochliobolus sativus*

<sup>b</sup> Use 560-750 mL/100 kg seed to control head smut in corn

## FORMULATION AND ACTIVE INGREDIENT:

- Each case contains: two 10L jugs of **LOVELAND VITAFLO**
- **LOVELAND VITAFLO** contains: 15.59% carbathin and 13.25% thiram

## LOVELAND VITAFLO with Rhizobium-based inoculants for pulse crops:

- **Granular inoculants** - no restrictions when using granular Rhizobium-based inoculants with **LOVELAND VITAFLO**
- **Liquid inoculants** - not recommended in combination with **LOVELAND VITAFLO**
- **Peat inoculants** - may be used, however refer to the inoculant manufacturers' application charts for directions for use

**LOVELAND VITAFLO** is applied at low rates on pulses compared to other pulse seed treatment options. For this reason, less excessive seed wetness with handling and potential bridging problems occur when **LOVELAND VITAFLO** is used.



ALWAYS READ AND FOLLOW LABEL DIRECTIONS.

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## PULSE CROPS & FLAX

| CROP      | RATE<br>(mL/100 kg<br>of seed) | SEED &<br>SEEDLING<br>ROTS/BLIGHTS <sup>d</sup> | PYTHIUM SEED<br>ROT | SEED-BORNE<br>ASCHOCHYTA | SEED-BORNE<br>ANTHRACNOSE | SEED-BORNE<br>PHOMOPSIS |
|-----------|--------------------------------|---|---------------------|--------------------------|---------------------------|-------------------------|
| Peas      | 260-330 <sup>c</sup>           | ●   | ●                   | ●                        |                           |                         |
| Lentils   | 330                            | ●   | ●                   |                          |                           |                         |
| Dry Beans | 260                            | ●   | ●                   |                          | ●                         |                         |
| Soybean   | 260                            | ●   | ●                   |                          |                           | ●                       |
| Flax      | 525                            | ●   | ●                   |                          |                           |                         |

<sup>c</sup> Use high rate to control Ascochyta

<sup>d</sup> May include seed rots and blights caused by Rhizoctonia, Fusarium and/or Botrytis spp.

## APPLICATION INFORMATION:

**LOVELAND VITAFLO** is designed to be used undiluted in commercial seed treaters, however, it can be diluted for use in slurry treaters.

DO NOT dilute with more than 25% water. Beyond this, the active ingredient will settle out of solution and the product will not be as effective. If diluted, **LOVELAND VITAFLO** is left in storage, some agitation may be required to use.

If you require seed tags for treated seed, please contact your local Nutrien Ag Solutions retail location.

## USE RESTRICTION:

Do not use treated seed for food, feed or oil processing.

## GRAZING

| CROP    | GRAZING INTERVALS   |
|---------|---|
| Wheat   | DO NOT graze or feed on treated area for 6 weeks                  |
| Barley  | DO NOT graze or feed on treated area for 6 weeks                  |
| Oats    | DO NOT graze or feed on treated area for 6 weeks                  |
| Soybean | DO NOT graze or feed livestock on forage and hay on treated areas |
| Beans   | DO NOT graze or feed on bean forage for 60 days                   |

For other crops, do not graze or feed livestock on treated area for four weeks after planting.



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