

# Vitaflo<sup>®</sup>-280

## Broad-spectrum disease control. Safe on seed. Labelled on many crops.

VITAFLO-280<sup>®</sup> Fungicide seed protectant is one of the most versatile seed treatments on the market. Labelled on 12 crops in Canada, VITAFLO-280 Fungicide provides control of key yield-robbing seed and seedling diseases, resulting in optimum germination of the seed and reliable stand establishment.

VITAFLO-280 is a combination of a systemic fungicide (carbathiin) and a contact fungicide (thiram). Systemic activity allows carbathiin to be taken up by seed and seedlings for built-in protection against diseases. Thiram provides contact activity of key diseases for a one-two punch. By combining carbathiin and thiram, growers also get the benefit of multiple modes of action to help manage resistance. In cold temperatures commonly experienced in Canada, VITAFLO-280 mixes and treats effectively down to -20° C.

## Active Ingredients; Carbathiin and Thiram

### Mode of Action

- Carbathiin inhibits mitochondrial succinic dehydrogenase (FRAC Code 7)
- Multi-site activity of thiram inhibits spore germination and mycelial growth (FRAC Code M3)

### Formulation

Suspension concentrate of carbathiin (174 g/L) and thiram (147 g/L)

## Use Rate Table for VITAFLO-280

Crop	Diseases Controlled	Use Rate (mL/100 kg seed)
Wheat	<ul style="list-style-type: none"> <li>Loose smut</li> <li>Stinking smut or common bunt</li> <li>Seed-borne dwarf bunt</li> <li>Seed rot and seedling blight from <i>Pythium</i> and <i>Penicillium</i></li> <li>Seed rot, seedling blight and suppression of root rot from <i>Fusarium spp.</i> and <i>Cochliobolus sativus</i></li> <li>Seed rot from storage fungi <i>Aspergillus</i> and <i>Alternaria</i></li> <li>Seed-borne <i>Septoria</i></li> </ul>	230 - 330
Barley	<ul style="list-style-type: none"> <li>False loose, covered and true loose smut</li> <li>Leaf stripe</li> <li>Suppression of net blotch</li> <li>Seed rot and seedling blight from <i>Pythium</i> and <i>Penicillium</i></li> <li>Seed rot, seedling blight and suppression of root rot from <i>Fusarium spp.</i> and <i>Cochliobolus sativus</i></li> <li>Seed rot from storage fungi <i>Aspergillus</i> and <i>Alternaria</i></li> </ul>	230 - 330
Dry Common Beans and Snap Common Beans	<ul style="list-style-type: none"> <li>Early season seed rot, root rot and seedling blight caused by <i>Rhizoctonia solani</i></li> <li>Seed-borne <i>Anthraconose (Colletotrichum lindemuthianum)</i></li> </ul>	260
Lentils	<ul style="list-style-type: none"> <li><i>Rhizoctonia solani</i></li> <li><i>Fusarium spp.</i></li> <li><i>Pythium spp.</i></li> <li><i>Botrytis cinerea</i></li> </ul>	330
Peas	<ul style="list-style-type: none"> <li><i>Rhizoctonia solani</i></li> <li><i>Fusarium spp.</i></li> <li><i>Pythium spp.</i></li> <li><i>Mycosphaerella (Ascochyta)</i></li> </ul>	260 330 (Ascochyta)
Soybeans	<ul style="list-style-type: none"> <li><i>Rhizoctonia solani</i></li> <li><i>Fusarium spp.</i></li> <li><i>Phomopsis spp.</i></li> </ul>	260
Oats	<ul style="list-style-type: none"> <li>Loose smut</li> <li>Covered smut</li> <li>Seed rot and seedling blight from <i>Pythium</i> and <i>Penicillium</i></li> <li>Seed rot, seedling blight and suppression of root rot from <i>Fusarium spp.</i> and <i>Cochliobolus sativus</i></li> <li>Seed rot from storage fungi <i>Aspergillus</i> and <i>Alternaria</i></li> </ul>	330
Rye	<ul style="list-style-type: none"> <li>Damping off, seedling blight and seed decay</li> <li>Seed rot and seedling blight from <i>Pythium</i> and <i>Penicillium</i></li> <li>Seed rot, seedling blight and suppression of root rot from <i>Fusarium spp.</i> and <i>Cochliobolus sativus</i></li> <li>Seed rot from storage fungi <i>Aspergillus</i> and <i>Alternaria</i></li> </ul>	230 - 330
Triticale	<ul style="list-style-type: none"> <li>Damping off, seedling blight and seed decay</li> </ul>	200
Flax and Edible Oil Flax	<ul style="list-style-type: none"> <li>Seed rot, root rot and seedling blight caused by <i>Rhizoctonia solani</i> and <i>Fusarium</i></li> </ul>	525
Corn (Field and Sweet)	<ul style="list-style-type: none"> <li>Damping off and seed decay</li> <li>Corn head smut (seed-borne)</li> </ul>	280 560 - 750

# Vitaflo®-280



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