

Insure® Pulse

Seed Treatment

Effective broad-spectrum protection to help maximize pea and lentil production.

- Three modes of effective action deliver broad-spectrum protection against key seed- and soil-borne diseases, including ascochyta
- Plant Health Benefits¹** provide more uniform emergence, enhanced seedling vigour and better management of minor stress² to help you achieve your target plant population

Active ingredients

Metalaxyl – Group 4
Fluxapyroxad – Group 7
Pyraclostrobin – Group 11

Formulation

Water-based suspension

One case contains

2 x 9.8 L jugs
Also available in 120 L drum

Storage

Requires heated storage.

Increased seedling vigour with Insure Pulse vs competitor on lentils



Plants infected with anthracnose at second-node stage.
Source: BASF Greenhouse Trials, 2017

Crops

Field peas, lentils (all classes), soybeans, chickpeas, dry beans, faba beans, flax (*Linum usitatissimum*), mustard (*Brassica hirta*)

Treatment

standard slurry or mist-type application equipment

Diseases controlled and suppressed by Insure® Pulse seed treatment

		Lentils	Field peas
<i>All Fusarium spp.</i>	Seed rot	C	C
	Seedling blight	C	C
	Root rot	S	S
<i>Rhizoctonia solani</i>	Seed rot	C	C
	Root rot	C	C
	Seedling blight	C	C
<i>All Pythium spp.</i>	Seed rot	C	C
	Seedling blight	C	C
<i>Botrytis cinerea</i>	Seed rot	S	S
	Seedling blight	S	S
<i>All Ascochyta spp.</i>	Seedling blight	C	C
<i>Anthracnose (Colletotrichum lindemuthianum)</i>	Seedling blight	S	S

S - Suppression C - Control

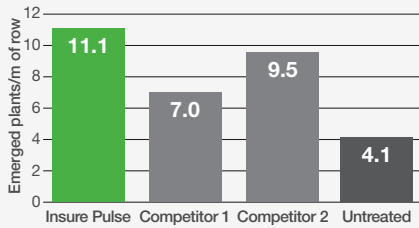
BASF

We create chemistry

¹ Plant Health Benefits refer to products that contain the active ingredient pyraclostrobin.

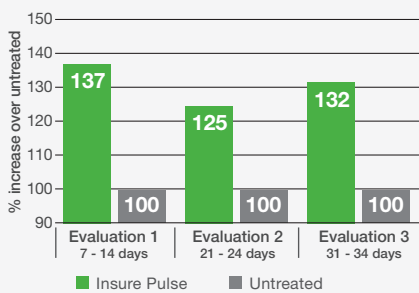
² All comparisons are to untreated, unless otherwise stated.

Lentils – More plants emerged under fusarium disease pressure



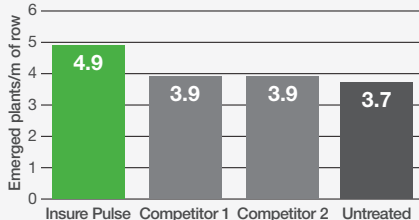
Source: Third-Party Research Trials, 2013

Flax – Increased emergence⁵



Source: Grower Applied Strip Trials, 2015

Field peas – Number of plants emerged under botrytis disease pressure



Source: Third-Party Research Trials, 2013

³ For flax (*Linum usitatissimum*), use a higher rate of 600 ml/100 kg seed if: a) there is a history of high disease pressures in the field or b) where field conditions favour seed- and soil-borne pathogens. If using the 600 ml/100 kg rate, it is highly recommended that the seed be treated into a bin or truck box to allow the treated seed to dry prior to placing into the seeder hopper. This will prevent clumping and bridging in the seeder.

⁴ Includes field peas, lentils (all classes), chickpeas, dry beans and faba beans.

⁵ Each evaluation was completed on the same row at 3 different dates for each treatment.

For more information:

Call **AgSolutions®** Customer Care at 1-877-371-BASF (2273)

Visit agsolutions.ca

Application rates

The application rate for Insure Pulse seed treatment is 300 ml per 100 kg of seed for pulses and soybeans, 300 to 600 ml per 100 kg of seed for flax³ and 600 ml per 100 kg of seed for mustard.

Crop	Bushels (bu) treated per jug	Bushels (bu) treated per 120 L drum	Bushels (bu) treated per 450 L tote
Pulses ⁴	120	1,469	5,510
Soybeans	120	1,469	5,510
Flax ³	64 to 128	784 to 1,567	2,939 to 5,878
Mustard	72	882	3,306

Directions for use and application tips

Apply using standard slurry or mist-type seed treatment application equipment. Consult agsolutions.ca for calibration information.



MIX/AGITATE

Mix/agitate the product well before applying.



BE CAUTIOUS

Be cautious of weather and temperature of seed and seed treatment while treating. Keep seed treatment in a warm storage area and avoid treating seed that is colder than 0°C.



FLOW RATE

Find the right flow rate to avoid plugging. Don't start treating with the seed treater running at 100% capacity.



BLOCKAGE

If seed is dry, it can cause issues such as cracked hulls building up and plugging the metering roller/auger.



DO NOT LEAVE UNATTENDED

Do not leave your seed treater alone when it's running, as many things can quickly affect seed treating quality.



BE ATTENTIVE

Be attentive to factors that can cause changes to nozzle pressure, including the power source to the pump, an object blocking the filter or the hose not reaching deep enough into the product.



FACTORS THAT AFFECT DRYING TIMES

Be cautious of drying times and factors that can lengthen them, such as weather (air temperature, wind speed, relative humidity), seed temperature, seed moisture levels, seed type and water being added during treating.

Dilution with water is not required unless recommended by the manufacturer of the seed treatment application equipment. If desired, increase the use rate proportionally to the dilution rate:

Ex: 100 ml water + 300 ml Insure Pulse = 400 ml/100 kg seed

BASF supports the addition of water to Insure Pulse to a maximum volume of 600 ml (300 ml additional water per 100 kg).

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

In adherence with the "Seeds Act", Insure Pulse contains sufficient pigment to conspicuously colour and coat treated seed.

Always read and follow label directions.

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