

(Sleeve)

GROUP

3

FUNGICIDE

Joust® Fungicide

EMULSIFIABLE CONCENTRATE

COMMERCIAL

For Control or Suppression of Listed Diseases in Barley, Borage, *Brassica carinata*, Canola, Chickpeas, Crambe, Corn, Flax (Linseed), Lentils, Oats, Oriental Mustard, Rapeseed, Safflower, Soybean, Sugar Beet, Sunflower, and Wheat.

ACTIVE INGREDIENT:
Prothioconazole.....250 g/L



POISON

DANGER- CORROSIVE TO EYES AND SKIN

REGISTRATION NUMBER 34800 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING
KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 2 - 101 Litres

Nufarm Agriculture Inc.
5101, 333 – 96th Ave NE
Calgary, Alberta T3K 0S3
1-800-868-5444

24-Hour Emergency Response Number 1-800-424-9300

GENERAL INFORMATION:

Joust Fungicide is a broad-spectrum, systemic fungicide for the control or suppression of listed *Ascomycetes*, *Basidiomycetes* and *Deuteromycetes* diseases on barley, *Brassica carinata*, borage, canola, chickpeas, crambe, corn, flax (linseed), lentils, oats, Oriental mustard, rapeseed, safflower, soybean, sugar beet, sunflower, and wheat.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. CORROSIVE to the eye and skin. DO NOT get in eyes or on skin. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes, and clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or smoking. If product comes in contact with clothing, remove all contaminated clothing, wash skin with soap and water and dress in clean clothing. Launder applicator clothing separate from other laundry. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings. A restricted entry interval (REI) of 20 days is required for hand-harvesting sweet corn and for detasseling seed corn. For all other activities do not re-enter treated fields until 24 hours after application. If this pest control product is to be used on a commodity that may be exported and you require information regarding Maximum Residue Limits for an importing country, please contact Nufarm Agriculture Inc. at 1-800-868-5444 or www.nufarm.ca.

PROTECTIVE CLOTHING AND EQUIPMENT:

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and boots during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or a face shield) during mixing, loading, clean-up and repair. Gloves are not required during application within a closed cab.

FIRST AID:

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. 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 to 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.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

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

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS:

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

STORAGE:

- Store this product away from food or feed.
- Keep away from direct sunlight.
- Keep away from fire or open flame or other sources of heat.
- Do not store at temperatures below freezing.
- Shake well before using, and if stored for greater than 1 year.
- Store the tightly closed container away from feeds, seeds, fertilizer, plants and foodstuffs.
- Do not use or store in or around the home.
- Keep in original container during storage.
- In case of fire, leaking or damaged containers, call toll free 1-800-424-9300.

DISPOSAL:

Recyclable Container: DO NOT reuse this container for any purpose. This is a recyclable container and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

Returnable Container: DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Disposal of Unused, Unwanted Product:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for cleanup of spills.

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

Joust[®] is a registered trademark of Nufarm Agriculture Inc.

(Booklet)

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TOXICOLOGICAL INFORMATION:

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS:

TOXIC to aquatic organisms and non-target terrestrial plants. Observe spray buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body.

STORAGE:

- Store this product away from food or feed.
- Keep away from direct sunlight.
- Keep away from fire or open flame or other sources of heat.
- Do not store at temperatures below freezing.
- Shake well before using, and if stored for greater than 1 year.
- Store the tightly closed container away from feeds, seeds, fertilizer, plants and foodstuffs.
- Do not use or store in or around the home.
- Keep in original container during storage.
- In case of fire, leaking or damaged containers, call toll free 1-800-424-9300.

DISPOSAL:

Recyclable Container: DO NOT reuse this container for any purpose. This is a recyclable container and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial/territorial requirements.

Returnable Container: DO NOT reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

Disposal of Unused, Unwanted Product:

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial/territorial regulatory agency. Contact the manufacturer and the provincial/territorial regulatory agency in case of a spill, and for cleanup of spills.

DIRECTIONS FOR USE:

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE S572.1) medium classification. Boom height must be 60 cm or less above the crop or ground.

Spray buffer zones:

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- soil drench

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of application	Crop	Spray Buffer Zones (metres) Required for the Protection of:					
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial habitat	
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m		
Field Sprayer	Wheat, barley, canola, Oriental mustard, rapeseed, <i>Brassica carinata</i> , chickpeas, lentils, sugar beets	1	1	1	1	1	
	Oats, soybean, corn, safflower, sunflower, flax, crambe, borage	1	1	1	1	0	

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions for Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact Nufarm Agriculture Inc. at 1-800-868-5444 for information before applying any tank mix that is not specifically recommended on this label.

The spray buffer zones can be modified based on weather conditions and spray equipment

configuration by accessing the Spray Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

CEREALS (Barley, Wheat and Oats)			
CROP	DISEASE	RATE	TIMING
Barley	For suppression of Fusarium Head Blight or Scab (<i>Fusarium</i> spp.),	<p>Apply Joust Fungicide once, at 600 to 800 mL/ha (150-200 g a.i./ha)</p> <p>Apply with a non-ionic surfactant: Enhance, AgSurf or Agral 90 at 0.125% v/v or with Carrier at 0.125% v/v</p>	<p>Fusarium head blight outbreaks in barley occur when the weather is warm and wet at ear emergence. The application of Joust Fungicide for protection against Fusarium head blight (scab) should be considered when these environmental conditions are forecasted for this stage of barley development.</p> <p>Timing of application is critical: For optimum suppression of Fusarium head blight, apply Joust Fungicide as a preventative spray within the time period when 70 to 100% of the barley main stem heads are fully emerged, to 3 days after full head emergence.</p> <p>Application of the 800 mL/ha rate is suggested in situations where disease pressure is expected to be high. Such situations may occur when prolonged periods of warm wet weather are forecast during barley ear emergence, when barley is grown in a crop rotation that has contained corn or when susceptible cultivars are grown.</p> <p>Use of the 800 mL/ha rate will typically provide highest levels of mycotoxin reduction.</p> <p>Spray Coverage is essential for optimum efficacy: Spray equipment must be set up to provide good coverage to barley heads. To achieve thorough barley head coverage, it is recommended to use forward and backward mounted nozzles or nozzles that have a two-directional spray. Nozzles should be operated within the spray pressure recommendations suggested by the manufacturer.</p>
	<p>For control of:</p> <p>Net Blotch (<i>Pyrenophora teres</i>)</p> <p>Scald (<i>Rhynchosporium secalis</i>)</p> <p>Spot Blotch (<i>Cochliobolus sativus</i>)</p>	<p>Apply Joust Fungicide once, at 400 to 600 mL/ha (100 -150 g a.i./ha)</p> <p>Apply with a non-ionic surfactant: Enhance, AgSurf or Agral 90 at 0.125% v/v or with Carrier at 0.125% v/v</p>	<p>Apply Joust Fungicide as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems. Barley fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.</p>

Note: A maximum of 2 applications (1.4 L/ha) of **Joust Fungicide**, with a minimum 7 day application interval, may be applied per barley crop, per year. Do not apply within 30 days of harvest. Applications may be made by ground only.

CROP	DISEASE	RATE	TIMING
Wheat (spring, durum and winter)	For suppression of Fusarium Head Blight or Scab (<i>Fusarium</i> spp.),	Apply Joust Fungicide once, at 600 to 800 mL/ha (150-200 g a.i./ha)	Fusarium head blight outbreaks in wheat occur when the weather is warm and wet at head emergence and flowering. The application of Joust Fungicide for protection against Fusarium head blight (scab) should be considered when these environmental conditions are forecasted for this stage of wheat development.
	For control of Glume blotch (<i>Stagonosora nodorum</i>)	Apply with a non-ionic surfactant: Enhance, AgSurf or Agral 90 at 0.125% v/v or with Carrier at 0.125% v/v	<p>Timing of application is critical: For optimum suppression of Fusarium head blight or control of Glume blotch, apply Joust Fungicide within the time period from when at least 75% of the wheat heads on the main stem are fully emerged to when 50% of the heads on the main stem are in flower.</p> <p>Application of the 800 mL/ha rate is suggested in situations where disease pressure is expected to be high. Such situations may occur when prolonged periods of warm, wet weather are forecast during anthesis, when wheat is grown in a crop rotation that has contained corn or when more susceptible cultivars or wheat types (i.e. durum) are grown.</p> <p>Use of the 800 mL/ha rate will typically provide highest levels of mycotoxin reduction.</p> <p>Spray Coverage is essential for optimum efficacy: Spray equipment must be set up to provide good coverage to wheat heads. To achieve thorough wheat head coverage, it is recommended to use forward and backward mounted nozzles or nozzles that have a two-directional spray. Nozzles should be operated within the spray pressure recommendations suggested by the manufacturer.</p>
	For control of: Speckled Leaf Blotch (<i>Septoria tritici</i>); Tan spot (<i>Pyrenophora tritici-repentis</i>); Leaf Rust (<i>Puccinia recondata</i>)	<p>Apply Joust Fungicide at 600 mL/ha (150 g a.i./ha)</p> <p>Apply with a non-ionic surfactant: Enhance, AgSurf or Agral 90 at 0.125% v/v or with Carrier at 0.125% v/v</p>	Apply Joust Fungicide as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems. Wheat fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.

Note: A maximum of 2 applications (1.4 L/ha) of **Joust Fungicide**, with a minimum 7-day application interval, may be applied per wheat crop per year. Do not apply within 30 days of harvest. Applications may be made by ground only.

CROP	DISEASE	RATE	TIMING
Oats	For control of Crown Rust (<i>Puccinia coronata</i>)	<p>Apply Joust Fungicide at 600 mL/ha (150 g a.i./ha)</p> <p>Apply with a non-ionic surfactant: Enhance, AgSurf or Agral 90 at 0.125% v/v or with Carrier at 0.125% v/v</p>	Apply Joust Fungicide as a preventive foliar spray when the earliest disease symptoms appear on the leaves and stems. Fields should be observed closely for early disease symptoms, particularly when susceptible varieties are planted and/or under prolonged conditions favorable for disease development.

Note: A maximum of 2 applications (1.2 L/ha) of **Joust Fungicide**, with a minimum 7-day application interval, may be applied per oat crop per year. Do not apply within 30 days of harvest. Applications may be made by ground only.

OILSEED CROPS (Canola, Rapeseed, Oriental Mustard, *Brassica carinata*)

CROP	DISEASE	RATE	TIMING
Canola, Rapeseed, Oriental mustard, <i>Brassica carinata</i>	For control of Sclerotinia stem rot (<i>Sclerotinia sclerotiorum</i>)	Apply Joust Fungicide at 600 – 700 mL/ha (150-175 g a.i./ha)	Apply Joust Fungicide when the crop is in the 20 - 50% bloom stage. Best protection will be achieved when the fungicide is applied prior to petals beginning to fall and will allow for the maximum number of petals to be protected. The 600 mL/ha rate is the recommended rate for most oilseed crops however, the higher rate is recommended for fields with a history of heavy disease pressure or for dense crop stands. Good spray coverage of the plants is essential.

Note: Enhance, Carrier, AgSurf or Agral 90, may be tank-mixed with **Joust Fungicide** at 0.125% v/v. The application may be made by ground only. A maximum of one application (700 mL/ha of **Joust Fungicide**) may be applied per crop year. Do not apply within 36 days of harvest.

PULSE CROPS (Chickpeas, Lentils)			
CROPS	DISEASE	RATE	TIMING
Chickpeas	For control of Ascochyta blight (<i>Ascochyta rabiei</i>)	Apply Joust Fungicide at 600 – 800 mL/ha (150-200 g a.i./ha) After the initial application, repeat applications may be made on 10-14 day intervals. Apply the higher rate when conditions favour disease development, or when growing less disease resistant varieties.	Apply Joust Fungicide at the first sign of disease. A maximum of 2.4 L/ha of Joust Fungicide may be applied per crop year for chickpeas. Maximum of three applications per year.
Lentils	For control of: Ascochyta blight (<i>Ascochyta spp.</i>)	Apply Joust Fungicide at 600 – 800 mL/ha (150-200 g a.i./ha) After the initial application, one additional application may be made 10-14 days afterwards if conditions remain favourable for continued or increased disease development. Apply the higher rate when conditions favour disease development, or when growing less disease resistant varieties.	Apply Joust Fungicide at first sign of disease. A maximum of 1.6 L/ha of Joust Fungicide may be applied per crop year for lentils. Maximum of two applications per year.
Note: Enhance, Carrier, AgSurf or Agral 90, may be tank-mixed with Joust Fungicide at 0.125% v/v. Applications may be made by ground only. Do not apply within 7 days of cutting or swathing of the crop.			

Soybean			
CROP	DISEASE	RATE	TIMING
Soybean	For control of: Asian soybean rust (<i>Phakopsora pachyrhizi</i>) Frogeye leaf spot (<i>Cercospora sojina</i>)	Apply Joust Fungicide at 400 mL/ha (100 g a.i./ha)	Apply Joust Fungicide when first symptoms of disease can be found or that the risk of infection is imminent. Do not apply more than one application per season.
Note: Enhance, Carrier, AgSurf or Agral 90, may be tank-mixed with Joust Fungicide at 0.125% v/v. The application may be made by ground only. Do not apply within 20 days of harvest.			

Corn (field, sweet and popcorn)			
CROP	DISEASE	RATE	TIMING
Corn (field, sweet and popcorn, including seed production)	<p>For the suppression of Fusarium and Gibberella ear rots (<i>Fusarium</i> spp. and <i>Gibberella</i> spp.)</p> <p>For the control of Rusts (<i>Puccinia sorghi</i>, <i>Puccinia polysora</i>), Eyespot (<i>Kabatiella zeae</i> or <i>Aureobasidium zeae</i>), and Northern Blight (<i>Setosphaeria turcica</i>)</p> <p>For the control of Grey Leaf Spot (<i>Cercospora zeae-maydis</i>)</p>	Apply Joust Fungicide at 800 mL/ha (200 g a.i./ha)	<p>Fusarium Ear Rot outbreaks in corn occur when the weather is warm and wet during silking. It is also driven by hybrid selection and field history of severe fusarium outbreaks. The application of Joust Fungicide for protection against Fusarium Ear Rot should be considered when these conditions are forecasted for a specific corn field. Applications of Joust Fungicide timed for suppression of fusarium ear rot.</p> <p>Timing of application is critical: For optimum suppression of Fusarium Ear Rot apply Joust Fungicide from the development stage of corn between the tip of stigmata visible (silking, BBCH 63) to the stigmata drying (silk browning, BBCH 67). Joust Fungicide will reduce both disease symptoms and levels of mycotoxin in the grain.</p> <p>Spray Coverage is essential for optimum efficacy: Spray equipment must be set up to provide good coverage to the cobs. To achieve thorough cob coverage, it is recommended to use drop-nozzles. Nozzles should be operated within the spray pressure recommendations suggested by the manufacturer.</p>
<p>Note: Enhance, Carrier, AgSurf or Agral 90, may be tank-mixed with Joust Fungicide at 0.125% v/v. Do not apply a non-ionic surfactant prior to tassel emergence. The application may be made by ground only. Do not apply within 14 days of harvest. Do not apply more than one application per season.</p>			

The DIRECTIONS FOR USE for the uses described in this section of the label were developed by persons other than Nufarm Agriculture Inc. under the User Requested Minor Use Label Expansion program. For these uses, Nufarm Agriculture Inc., has not fully assessed performance (efficacy) and/or crop tolerance (phytotoxicity) under all environmental conditions or for all crop varieties when used in accordance with the label. The user should test the product on a small area first, under local conditions and using standard practices, to confirm the product is suitable for widespread application.

CROP	DISEASE	RATE	TIMING
Sunflower, Safflower	For suppression of Sclerotinia head rot (<i>Sclerotinia sclerotiorum</i>)	Apply Joust Fungicide at 800 mL/ha (200 g a.i./ha)	Apply Joust Fungicide when the crop is in the 10 - 50% disk flower bloom stage.

Note: Enhance, Carrier, AgSurf or Agral 90, may be tank-mixed with **Joust Fungicide at 0.125% v/v**. The application may be made by ground only. A maximum of one application (800 mL/ha of **Joust Fungicide**) may be applied to sunflower or safflower per crop year. Do *not apply* within 45 days of harvest. If applying **Joust Fungicide** to greater than 310 ha per day of sunflower and/or safflower using open cab groundboom equipment, applicators must also wear a NIOSH/MSHA-approved respirator.

CROP	DISEASE	RATE	TIMING
Flax (linseed), Crambe, Borage	For control of Sclerotinia stem rot (<i>Sclerotinia sclerotiorum</i>)	Apply Joust Fungicide at 600 – 700 mL/ha (150-175 g a.i./ha)	Apply Joust Fungicide when the crop is in the 20 - 50% bloom stage. Best protection will be achieved when the fungicide is applied prior to petals beginning to fall and will allow for the maximum number of petals to be protected. The higher rate is recommended for fields with a history of heavy disease pressure or fordense crop stands. Good spray coverage of the plants is essential.

Note: Enhance, Carrier, AgSurf or Agral 90, may be tank-mixed with **Joust Fungicide at 0.125% v/v**. The application may be made by ground only. A maximum of one application (700 mL/ha of **Joust Fungicide**) may be applied per crop year. Do not apply within 36 days of harvest.

CROP	DISEASE	RATE	TIMING
Sugar beets	For control of foliar diseases: Cercospora Leaf Spot (<i>Cercospora beticola</i>)	Apply Joust Fungicide at 600 – 800 mL/ha (150 – 200 g a.i./ha)	Apply Joust Fungicide at the first sign of disease. Use the higher rate and shorter intervals when conditions are favourable for severe disease pressure and/or when growing less disease-resistant varieties. Apply the specified rate of Joust Fungicide in 100 – 200 L of water per hectare. Repeat applications as needed using a 14 to 21-day spray interval depending on disease pressure. Use a 14-day spray interval under normal to heavy disease pressure and a 21-day spray interval under light disease pressure.

	For control of soil-borne diseases: Rhizoctonia Crown Rot (<i>Rhizoctonia solani</i>)	Apply Joust Fungicide at 800 mL/ha (200 g a.i./ha)	Apply Joust Fungicide at the 4-leaf to row closure growth stage. Apply the specified rate of Joust Fungicide in 50 – 100 L of water per hectare. Repeat applications as needed using a 21-day spray interval.
Note: A maximum of 3 applications (2.4 L/ha of Joust Fungicide) may be applied per crop year. Do not apply within 7 days of harvest. Enhance, Carrier, AgSurf or Agral 90 at 0.125% v/v) may be tank-mixed with Joust Fungicide . The application may be made by ground only. Joust Fungicide is a Group 3 fungicide. To limit the potential for development of disease resistance, alternate every application of Joust Fungicide with a non-Group 3 fungicide.			

Rotational Restrictions:

Treated areas may be replanted with any crop specified on this label as soon as practical after the last application. For crops not listed on this label, do not plant back within 30 days of last application.

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that **Joust Fungicide** contains a Group 3 fungicide. Any fungal population may contain individuals naturally resistant to **Joust Fungicide** and other Group 3 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 **Joust Fungicide** or other Group 3 fungicides with products from different fungicide groups that control the same pathogens.
- Use tank mixtures with fungicide from a different group that is effective on the target pathogen when such use is permitted.
- Fungicide use should be based on an integrated disease management program that includes scouting, historical information related to pesticide use and crop rotation and considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications.
- Monitor treated fungal/bacterial populations for resistance development. Notify Nufarm Agriculture Inc. if reduced sensitivity of the pathogen to **Joust Fungicide** is suspected.

- 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 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 or to report suspected resistance, contact Nufarm Agriculture Inc. at 1-800-868-5444 or at www.nufarm.ca.

GROUND APPLICATION:

1. Use well-maintained and calibrated conventional spray equipment, which provides adequate and uniform coverage.
2. Apply **Joust Fungicide** in a minimum of 100 L water/ha unless otherwise specified.
3. Spray screens should be no finer than 50 mesh.
4. Ensure that the by-pass line discharges at the bottom of the tank to minimize foaming.
5. Maintain pressure at no less than 275 kPa to ensure good foliage penetration and coverage.
6. Provincial/territorial spray buffer zones that are greater than the spray buffer zones indicated in the DIRECTIONS FOR USE should be respected.
7. If spray mixture remains in the tank overnight, or for long periods during the day, agitate thoroughly prior to application.

MIXING INSTRUCTIONS:

Joust Fungicide must be applied with properly calibrated, clean equipment. Prior to adding **Joust Fungicide** to the spray tank, ensure that the spray tank is thoroughly clean.

Joust Fungicide applied alone:

- Add one-half of the required amount of water to the spray or mixing tank and start agitation.
- Add the required quantity of **Joust Fungicide** to the water and complete filling with water to the required total volume.
- Maintain agitation throughout mixing and spraying.
- **Joust Fungicide** should be thoroughly dispersed prior to the addition of a non-ionic surfactant. **Joust Fungicide** is recommended to be used with a registered adjuvant such as Enhance, Carrier, Agral 90 or AgSurf, at 0.125% vol/vol.

When tank-mixes are permitted, read and observe all label directions, including rates and restrictions for each product used in the tank-mix. Follow the more stringent label precautionary measures for mixing, loading and applying stated on both product labels.

In some cases, tank mixing a pest control product with another pest control product

or a fertilizer can result in biological effects that could include, but are not limited to: reduced pest efficacy or increased host crop injury. The user should contact Nufarm Agriculture Inc. at 1-800-868-5444 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label.

Pre-harvest Intervals

Crop	PHI (days)
Wheat (spring, durum and winter), Barley, Oats	30
Canola, Rapeseed, Oriental Mustard, <i>Brassica carinata</i> , Flax (Linseed), Crambe, borage	36
Corn (field, sweet, popcorn)	14
Chickpea, Lentils	7
Soybean	20
Sugar Beet	7
Safflower, Sunflower	45

NOTICE TO USER:

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

Joust[®] is a registered trademark of Nufarm Agriculture Inc.