

(Sleeve)

GROUP

3

FUNGICIDE

Joust® Fungicide

EMULSIFIABLE CONCENTRATE

COMMERCIAL

For Control or Suppression of Listed Diseases in Barley, Borage, *Brassica carinata*, Bushberries, Canola, Chickpeas, Crambe, Low Growing Berries - except strawberries, Corn, Cucurbits, Flax (Linseed), Lentils, Oats, Oriental Mustard, Rapeseed, Safflower, Soybean, Sugar Beet, Sunflower, Wheat and Certain Other Grains.

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, bushberries, *Brassica carinata*, borage, canola, chickpeas, crambe, low growing berries - except strawberries, corn, cucurbits, flax (linseed), lentils, oats, Oriental mustard, rapeseed, safflower, soybean, sugar beet, sunflower, wheat and certain other small grains.

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. An REI of 3 days is required for hand-line irrigation in cucurbits and bushberries. 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 or cockpit.

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 or 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 registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or 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.
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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 registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or 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.

Airblast application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

Aerial application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. To reduce drift caused by turbulent wingtip vortices, the nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

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, bushberries, low lying berries, cucurbits, small grains	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.

When tank mixes are permitted, consult the labels of the tank mix partners and observe the largest (most restrictive) spray buffer zone of the products involved in the tank mixture and apply using the coarsest spray (ASABE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product for conventional application equipment can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Drift Mitigation 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.),	Apply Joust Fungicide once, at 600 to 800 mL/ha (150-200 g a.i./ha) Apply with a non-ionic surfactant: Enhance, AgSurf or Agral 90 at 0.125% v/v or with Carrier at 0.125% v/v	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. 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. 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.

			Use of the 800 mL/ha rate will typically provide highest levels of mycotoxin reduction. 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 using ground application equipment, 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.
	For control of: Net Blotch (<i>Pyrenophora teres</i>) Scald (<i>Rhynchosporium secalis</i>) Spot Blotch (<i>Cochliobolus sativus</i>)	Apply Joust Fungicide once, at 400 to 600 mL/ha (100 -150 g a.i./ha) Apply with a non-ionic surfactant: Enhance, AgSurf or Agral 90 at 0.125% v/v or with Carrier at 0.125% v/v	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.
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 or aerial spray equipment.			

CROP	DISEASE	RATE	TIMING
Wheat (spring, durum and winter)	For suppression of Fusarium Head Blight or Scab (<i>Fusarium</i> spp.), For control of Glume blotch (<i>Stagonosora nodorum</i>)	Apply Joust Fungicide once, at 600 to 800 mL/ha (150-200 g a.i./ha) Apply with a non-ionic surfactant: Enhance, AgSurf or Agral 90 at 0.125% v/v or with Carrier at 0.125% v/v	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. 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. 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.

			Use of the 800 mL/ha rate will typically provide highest levels of mycotoxin reduction. 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 using ground application equipment, 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.
	For control of: Speckled Leaf Blotch (<i>Septoria tritici</i>); Tan spot (<i>Pyrenophora tritici-repentis</i>); Leaf Rust (<i>Puccinia recondata</i>)	Apply Joust Fungicide at 600 mL/ha (150 g a.i./ha) Apply with a non-ionic surfactant: Enhance, AgSurf or Agral 90 at 0.125% v/v or with Carrier at 0.125% v/v	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 or aerial spray equipment.			

CROP	DISEASE	RATE	TIMING
Oats	For control of Crown Rust (<i>Puccinia coronata</i>)	Apply Joust Fungicide at 600 mL/ha (150 g a.i./ha) Apply with a non-ionic surfactant: Enhance, AgSurf or Agral 90 at 0.125% v/v or with Carrier at 0.125% v/v	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 or aerial spray equipment.			

CROP	DISEASE	RATE	TIMING
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Pearl millet, Proso millet, Rye, Triticale, Teosinte, Buckwheat	For suppression of: Fusarium Head Blight (<i>Fusarium</i> spp.), or Scab – except buckwheat For control of Rust (<i>Puccinia</i> spp.)	Apply Joust Fungicide at 600-800 mL/ha (150-200 g a.i./ha) Apply with a non-ionic surfactant: Enhance, AgSurf or Agral 90 at 0.125% v/v or with Carrier at 0.125% v/v	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 (1.4 L/ha) of Joust Fungicide , with a minimum 7-day application interval, may be applied per year. Do not apply within 30 days of harvest. Applications may be made by ground equipment only.			

OILSEED CROPS (Canola, Rapeseed, Oriental Mustard, <i>Brassica carinata</i>)			
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.
			A second application at a rate of 600 mL/ha may be applied 7-10 days later, up to full bloom, if disease persists or weather conditions are favourable for disease development. When conditions favouring disease are severe, use the shorter interval.
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 or aerial spray equipment. 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.
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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 or aerial spray equipment. 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 or aerial spray equipment. 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)	For the suppression of Fusarium and Gibberella ear rots (<i>Fusarium</i> spp. and <i>Gibberella</i> spp.) For the control of Rusts (<i>Puccinia sorghi</i>, <i>Puccinia polysora</i>), Eyespot (<i>Kabatiella zae</i> or <i>Aureobasidium zae</i>), and Northern Blight (<i>Setosphaeria turcica</i>) For the control of Grey Leaf Spot (<i>Cercospora zae-maydis</i>) For suppression of the stalk rot pathogens <i>Fusarium</i> spp., <i>Gibberella</i> spp. and <i>Colletotrichum</i> spp. which may cause stalk lodging.	Apply Joust Fungicide at 800 mL/ha (200 g a.i./ha)	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. 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. Spray Coverage is essential for optimum efficacy: Spray equipment must be set up to provide good coverage using ground application equipment 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.
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 or aerial spray equipment. Do not apply within 14 days of harvest. Do not apply more than one application per season.			

Cucurbit Vegetables			
CROP	DISEASE	RATE	TIMING
Cucurbit vegetables: Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucurbit, hechima, Chinese okra); <i>Momordica</i> spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe);	Fusarium wilt Fusarium blight (<i>Fusarium</i> spp.) Gummy stem blight (<i>Didymella</i> spp.)	Apply Joust Fungicide at 800 mL/ha (200 g a.i./ha) (soil) Apply Joust Fungicide at 800 mL/ha (200 g a.i./ha) (foliar)	Apply Joust Fungicide at planting via drip / drench equipment. Follow with foliar treatments during the season.

pumpkin; squash, summer; squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon	Powdery mildew (<i>Sphaerotheca fuliginea</i>)	Apply Joust Fungicide at 400-800 mL/ha (100 – 200 g a.i./ha)	For Powdery Mildew Control apply Joust Fungicide as a preventive foliar spray when the earliest sign of disease is first noticed., repeat at 5 – 10 day intervals with Joust Fungicide or another approved fungicide from a different chemical group
General Comments: Apply up to one (1) soil application and two (2) foliar applications of Joust Fungicide at the high rate, or one soil application and four (4) foliar applications per year at the low rate. Repeat foliar applications as needed using a 5- to 10-day spray interval if conditions remain favorable for continued or increasing disease development. Foliar applications may be applied by ground application equipment only. Apply with an adjuvant: Enhance, Carrier, AgSurf or Agral 90 at 0.125% v/v. A maximum of 2.4 L/ha of Joust Fungicide may be applied per crop year. Do not apply within 7 days of harvest.			

Bushberry			
CROP	DISEASE	RATE	TIMING
Bushberry subgroup: Aronia berry; blueberry, highbush; blueberry, lowbush; buffalo currant; cranberry, highbush; currant, black; currant, red; elderberry; European barberry; gooseberry; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); lingonberry; salal; sea buckthorn; cultivars, varieties, and/or hybrids of these.	Suppression of Septoria leaf spot (<i>Septoria</i> spp.)	Apply Joust Fungicide at 600 mL/ha (150 g a.i./ha).	Apply Joust Fungicide at the first sign of disease. After the initial application, one additional application may be made 10-14 days afterwards if conditions remain favourable for continued or increased disease development.
	Suppression of Leaf rust (<i>Thekopsora minima</i>) and Valdensinia leaf spot (<i>Valdensinia heterodoxa</i>) - blueberry only	Apply Joust Fungicide at 760 mL/ha (190 g a.i./ha)	
	Monilinia blight (<i>Monilinia vaccinii-corymbosi</i>) – blueberry only	Apply Joust Fungicide at 600-800 mL/ha (150 – 200 g a.i./ha)	Begin applications at early bloom for fruit rot. Make a second application of Joust Fungicide or another approved fungicide 5-10 days later.
General Comments: Apply up to two (2) applications of Joust Fungicide per year. Applications may be made by ground application equipment only. Apply with an adjuvant: Enhance, Carrier, AgSurf or Agral 90 at 0.125% v/v. A maximum of 1.6 L/ha of Joust Fungicide may be applied per crop year. Do not apply within 7 days of harvest.			

Low-Growing Berry, except strawberry			
CROP	DISEASE	RATE	TIMING
Low growing berry subgroup, except strawberry; Bearberry;	Fruit rot: <i>Coleophoma empetri</i> ,	Apply Joust Fungicide at 700 mL/ha	Begin applications at early bloom for fruit rot. Make a second application of Joust Fungicide or another approved fungicide 5-10 days later.

bilberry; cloudberry; cranberry; partridgeberry; cultivars, varieties, and/or hybrids of these	<i>Glomerella</i> <i>cingulata</i> , <i>Phyllosticta</i> <i>vaccinii</i> , <i>Physalospora</i> <i>vaccinii</i> , <i>Allantophomopsis</i> <i>lycopodina</i> , <i>Allantophomopsis</i> <i>cytispora</i> , <i>Fusicoccum</i> <i>putrefaciens</i> , <i>Penicillium</i> spp., <i>Phomopsis</i> <i>vaccinii</i> , <i>Colletotrichum</i> <i>acutatum</i> , <i>Colletotrichum</i> <i>coccodes</i> Suppression of Septoria leaf spot (<i>Septoria</i> spp.)	(175 g a.i./ha) Apply with a non-ionic surfactant: Enhance, AgSurf or Agral 90 at 0.125% v/v or with Carrier at 0.125%	
General Comments: Apply up to two (2) applications of Joust Fungicide per year. Repeat applications as needed using a 5- to 10-day spray interval if conditions remain favorable for continued or increasing disease development. Applications may be made by ground application equipment only. A maximum of 1.4 L/ha of Joust Fungicide may be applied per crop year. Do not apply within 45 days of harvest.			

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 or aerial spray equipment. 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
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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 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 or aerial spray equipment. 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 when using ground application equipment. 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.

AERIAL APPLICATION-GENERAL INFORMATION:

1. Apply only by fixed-wing or rotary aircraft equipment which has been functionally and operationally calibrated for the atmospheric conditions of the area and the application rates and conditions of this label.
2. Label rates, conditions and precautions are product specific. Read and understand the entire label before opening this product. Apply only at the rate recommended for aerial application on this label. Where no rate for aerial application appears for the specific use, this product cannot be applied by any type of aerial equipment. If you have questions, call 1-800-868-5444 or obtain technical advice from the distributor or your provincial agricultural representative.
3. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.
4. Apply **Joust Fungicide** in a minimum of 50 L of water/ha.
5. To ensure proper coverage and distribution and to minimize drift, check to see that swath width and droplet size are adequate, and that wind velocities are low.
6. Use mechanical flaggers only.

AERIAL APPLICATION-USE PRECAUTIONS:

1. Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage.
2. Apply only under conditions of good practice specific to aerial application as outlined in the *National Aerial Pesticide Application Manual*, developed by the Federal/Provincial/Territorial committee on Pest management and Pesticides.

AERIAL APPLICATION- OPERATOR PRECAUTIONS:

1. **DO NOT** allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted.
2. It is desirable that the pilot has communication capabilities at each treatment site at the time of application.
3. The field crew and the mixer/loaders must wear chemical resistant gloves, coveralls and goggles or face shield during mixing/loading, cleanup and repair. Follow the more stringent label precautions in cases where the operator precautions exceed the generic label recommendations on the existing ground boom label.
4. All personnel on the job site must wash hands and face thoroughly before eating and drinking.
5. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.
6. Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-800-868-5444 or obtain technical advice from the distributor or your provincial agricultural representative.

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.

Pre-harvest Intervals

Crop	PHI (days)
Wheat (spring, durum and winter), Barley, Oats, Pearl Millet, Proso Millet, Rye, Triticale, Teosinte, Buckwheat	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
Bushberry	7
Cucurbits	7
Low-Growing Berries (except strawberries), 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.