

Booklet

GROUP	3	7	FUNGICIDE
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COTEGRA™ FUNGICIDE

SUSPENSION CONCENTRATE

For use in dried beans, dried peas, chickpeas, lentils, soybeans, canola, rapeseed (*Brassica* spp.; *Brassica napus* L.) and oriental mustard (*Brassica juncea*)

COMMERCIAL (AGRICULTURAL)

GUARANTEE: Boscalid 250 g/L
 Prothioconazole 150 g/L

REGISTRATION NO. 32530

PEST CONTROL PRODUCTS ACT

Contains 1,2-benzisothiazolin-3-one and 2-methyl-4-isothiazolin-3-one both at 0.008% and 2-bromo-2-nitropropane-1,3-diol at 0.024%, as a preservative

Warning, contains the allergen soy

**IN CASE OF EMERGENCY ENDANGERING LIFE OR PROPERTY
INVOLVING THIS PRODUCT, CALL DAY OR NIGHT
1-800-454-2673**



CAUTION

POISON

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 0.1 L to bulk

BASF Canada Inc.
100 Milverton Drive, 5th Floor
Mississauga, ON L5R 4H1
1-877-371-2273

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GENERAL INFORMATION

This package contains **COTEGRA Fungicide**, a 400 g/L suspension concentrate. The active ingredients in **COTEGRA Fungicide** belong to the carboxamide (Group 7) and triazole (Group 3) groups of fungicides.

COTEGRA Fungicide has a protective effect because it inhibits spore germination and a curative-eradicator effect because it inhibits mycelial growth and sporulation of the fungus on the leaf surface. **COTEGRA Fungicide** can therefore be applied in either pre- or post-infection situations. However, optimum disease management is achieved when **COTEGRA Fungicide** is applied in a regularly scheduled protective spray program and is used in a rotation program with other fungicides.

DIRECTIONS FOR USE (See specific sections for each crop group)

Apply the recommended rate of **COTEGRA Fungicide** as instructed in the following series of crop application rate tables. Apply **COTEGRA Fungicide** with ground or aerial spray equipment as specified. Equipment should be checked frequently for proper calibration.

Dried Beans Application Rate Table

Ground and Aerial Application

Crop	Disease	Application Rate (L/ha)
Dried beans*, including but not limited to dry beans, field beans and fababeans	Suppression of white mold (<i>Sclerotinia sclerotiorum</i>)	1.0
Apply COTEGRA Fungicide at 20-50% flowering. Apply a second time 7-14 days later if disease persists, or weather conditions are favourable for disease development. Use the shorter interval when disease pressure is high to obtain extended protection and maximum yield benefit.		
<i>*Lupinus spp.</i> (includes grain lupin, sweet lupin, white lupin and white sweet lupin)		
<i>*Phaseolus spp.</i> (includes field beans {dry common and coloured beans} such as kidney, black, cranberry, pink, navy bean, pinto bean, tepary bean and lima bean {dry})		
<i>*Vigna spp.</i> (includes adzuki bean, blackeyed pea, catjang, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, broad or faba bean {dry})		

Chickpeas, Dried Peas and Lentils Application Rate Table

Ground and Aerial Application

Crop	Disease	Application Rate (L/ha)
Lentils, field peas (dry), chickpeas	Suppression of white mold (<i>Sclerotinia sclerotiorum</i>)	0.7

Apply **COTEGRA Fungicide** at the beginning of flowering or at the onset of disease symptoms (first sign of disease). Apply a second time 7-14 days later if disease persists, or weather conditions are favourable for disease development. Use the shorter interval when disease pressure is high to obtain extended protection and maximum yield benefit.

Canola, Rapeseed (*Brassica spp.*; *Brassica napus L.*) and Oriental Mustard (*Brassica juncea*) Application Rate Table

Ground and Aerial Application

Crop	Disease	Application Rate (L/ha)
Canola, rapeseed (<i>Brassica spp.</i> ; <i>Brassica napus L.</i>) and oriental mustard (<i>Brassica juncea</i>)	Control of Sclerotinia stem rot (<i>Sclerotinia sclerotiorum</i>)	0.6 - 0.7

Apply **COTEGRA Fungicide** at 20-50% flowering to control Sclerotinia stem rot (*Sclerotinia sclerotiorum*). Apply a second time 7-14 days later up to full bloom if disease persists, or weather conditions are favourable for disease development. Use the shorter interval when disease pressure is high to obtain extended protection and maximum yield benefit.

Select the use rate based on relative disease pressure. Use the high rate if weather conditions are favorable for disease development (i.e. high humidity/moisture) and/or when risk for disease development is high (i.e. narrow host rotation with disease history and high potential for inoculum).

Soybean Application Rate Table

Ground and Aerial Application

Crop	Disease	Application Rate (L/ha)
Soybean	Control of frog eye leaf spot (<i>Cercospora sojina</i>) Suppression of white mold (<i>Sclerotinia sclerotiorum</i>) Control of Asian soybean rust (<i>Phakopsora pachyrhizi</i>) Suppression of Septoria brown spot (<i>Septoria glycines</i>)	0.7
Apply COTEGRA Fungicide prior to disease development when conditions are favorable for disease development or at the onset of disease symptoms (first sign of disease). Apply a second time 7-14 days later if disease persists, or weather conditions are favourable for disease development. Use the shorter interval when disease pressure is high to obtain extended protection and maximum yield benefit.		

Crop-Specific Restrictions and Limitations

Crop	Minimum Time from Application to Harvest (PHI)	Maximum Rate Per Hectare Per Application (Litres)	Maximum Number of Applications Per Season	Maximum Rate Per Hectare Per Season (Litres)
Beans - dried	21 days	1.0	2	2.0
Chickpeas	21 days	0.7	2	1.4
Soybeans	21 days	0.7	2	1.4
Lentils	21 days	0.7	2	1.4
Peas - dried	21 days	0.7	2	1.4
Canola, rapeseed (<i>Brassica spp.</i> ; <i>Brassica napus L.</i>) and oriental mustard (<i>Brassica juncea</i>)	36 days	0.7	2	1.4

Ground application

Apply **COTEGRA Fungicide** at rates listed in the Application Rate and Timing Tables (crop specific) when conditions are favourable for the development of disease. Use a minimum water volume of 100 L/ha and ensure thorough coverage of foliage. Consult nozzle manufacturers recommendation for spray pressures for specific nozzles.

Aerial application

Apply **COTEGRA Fungicide** at rates listed in application rate and timing tables (crop specific) when conditions are favourable for the development of disease. Use a minimum water volume of 50 L/ha. Ensure thorough coverage of foliage. Consult nozzle manufacturers recommendation for spray pressures for specific nozzles.

Instructions for Aerial Applications

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. 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. Ensure uniform application. To avoid streaked, uneven or overlapped application, use appropriate marking devices.

Use Precautions

Apply only when meteorological conditions at the treatment site allow for complete and even crop coverage. 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.

Do not apply to any body of water. Avoid drifting of spray onto any body of water or other non-target areas. Specified buffer zones should be observed.

Coarse sprays are less likely to drift, therefore, avoid combinations of pressure and nozzle type that will result in fine particles (mist). Do not apply during periods of dead calm or when wind velocity and direction pose a risk of spray drift. Do not spray when the wind is blowing towards a nearby sensitive crop, garden, terrestrial habitat (such as shelter-belt) or aquatic habitat.

Operator Precautions

Do not allow the pilot to mix chemicals to be loaded onto the aircraft. Loading of premixed chemicals with a closed system is permitted. It is desirable that the pilot have communication capabilities at each treatment site at the time of application. 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. All personnel on the job site must wash hands and face thoroughly before eating and drinking. Protective clothing, aircraft cockpit and vehicle cabs must be decontaminated regularly.

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the manufacturer at 1-877-371-BASF (2273) or obtain technical advice from the distributor or your provincial agricultural representative.

Restrictions

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) medium classification. Boom height must be 60 cm or less above the crop or ground.

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/hour 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.

Buffer zones

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer, inter-row hooded sprayer, spot treatment, soil drench and soil incorporation.

The 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, rangelands, riparian areas and shrublands) and sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine or marine habitats.

Method of application	Crop		Buffer Zones (metres) Required for the Protection of:			
			Freshwater Habitat of Depths		Estuarine/Marine Habitats of Depths	
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m
Field sprayer	Dried beans, chickpeas, lentils, field peas, soybeans, canola, rapeseed and mustard		1	1	1	1
Aerial	Dried beans	Fixed wing	10	1	10	1
		Rotary wing	10	1	5	1
	Chickpeas, lentils, field peas, soybeans and oilseed crops (canola, rapeseed and mustard)	Fixed wing	10	1	5	1
		Rotary wing	5	1	2	1

The buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pest Management Regulatory Agency web site.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms. Observe buffer zones specified under **DIRECTIONS FOR USE**. **DO NOT** apply to areas where runoff is likely to occur. Site characteristics that may lead to runoff following heavy rainfall include, but are not limited to a moderate to steep slope, bare soil, poorly drained soils (e.g. soils that are compacted or fine textured). If rainfall is imminent, delay application. Boscalid is persistent and will carry over; it is recommended that the product, **COTEGRA Fungicide** containing boscalid, not be used in areas treated with this product during the previous season.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, please note that **COTEGRA Fungicide** contains both a Group 3 and 7 fungicide. Any fungal population may contain individuals naturally resistant to **COTEGRA Fungicide** and other Group 3 and 7 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same locations. Other resistance mechanisms that are not linked to site of action but are 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 **COTEGRA Fungicide** or other Group 3 or 7 fungicides with different groups that control the same pathogens. **DO NOT** apply more than two (2) sequential applications of **COTEGRA Fungicide** before alternating to a labelled fungicide with a different mode of action for at least one application. **DO NOT** exceed the total number of applications of **COTEGRA Fungicide** per season as stated in the Crop-Specific Restrictions and Limitations.
- Fungicide use should be based on an IPM 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 efficacy of all fungicides used in the disease management program against the targeted pathogen and record other factors that may influence fungicide performance and/or disease development.

- If **COTEGRA Fungicide** appears to be less or no longer effective against a pathogen that it previously controlled or suppressed, contact a BASF-representative, local extension specialist, or certified crop advisor to assist in determining the cause of reduced performance. If disease continues to progress after treatments 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.

For further information, contact BASF Canada Inc. at 1-877-371-2273.

MIXING

1. Ensure the spray tank is clean before use. Follow the clean-out recommendations stated on the label of the product that was previously used.
2. Fill the spray tank one-half full of water and start agitation.
3. Add the required amount of **COTEGRA Fungicide** to the tank.
4. Continue agitation while filling the remainder of the spray tank .
5. After use, clean the spray tank according to PRECAUTIONS.

RESTRICTIONS AND LIMITATIONS

1. All crops can be grazed or fed to livestock 7 days after application.
2. A plant back restriction of 14 days is required for all crops listed on this label. A plant back restriction of 30 days is required for all crops NOT on the label.
3. **DO NOT** use in greenhouses.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. **DO NOT** take internally. Harmful if swallowed, inhaled or absorbed through skin.
3. Avoid contact with skin, eyes and clothing. Avoid breathing vapor or spray mist.
4. Wash exposed areas of skin thoroughly after handling and before eating, drinking or smoking.
5. **DO NOT** re-enter treated area for 24 hours after application.
6. Wear long-sleeved shirt, long pants and chemical resistant gloves during mixing, loading, application, clean up and repair. Wear goggles or a face shield during mixing/loading.

7. If clothing becomes contaminated, remove and wash separately from household laundry before reuse.
8. Clean spray equipment thoroughly after use.
9. **DO NOT** contaminate domestic or irrigation water, lakes, streams or ponds by the cleaning of equipment or the disposal of wastes.
10. 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.

FIRST AID

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 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 swallowed: Call a poison control centre or doctor immediately for treatment advice. 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 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.

STORAGE

1. Store the leftover product in original tightly closed container. Protect from freezing.
2. **DO NOT** ship or store the product near food, feed, seed and fertilizers.
3. Store the product in a cool, dry, locked, well-ventilated area without a floor drain.

DISPOSAL

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 requirements.

For Returnable Containers

Do not reuse this container for any purpose. For disposal, this container may be returned to the point of purchase (distributor/dealer).

For Refillable Containers

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

For Non-Returnable containers

Triple or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements.

For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up 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. The user assumes the risk to persons or property that arises from any such use of this product.

Container Label

GROUP	3	7	FUNGICIDE
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COTEGRA™ FUNGICIDE

SUSPENSION CONCENTRATE

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COMMERCIAL (AGRICULTURAL)

GUARANTEE: Boscalid 250 g/L
 Prothioconazole 150 g/L

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Warning, contains the allergen soy

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NET CONTENTS: 0.1 L to bulk

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