GROUP 5 HERBICIDE

# **BASF Metribuzin 480**

# **HERBICIDE**

# SUSPENSION

For sale for use in lentils and field peas grown in Western Canada only.

# **COMMERCIAL (AGRICULTURAL)**

Contains 1,2-Benzisothiazolin-3-one at 0.0386% or 2-Bromo-2-nitropropane at 0.06% as a preservative

**REGISTRATION NO.** 34820

**PEST CONTROL PRODUCTS ACT** 



READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

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

SHAKE WELL BEFORE USING

NET CONTENTS: 1 L to 1000 L

BASF Canada Inc. 5025 Creekbank Road Building A, 2nd Floor Mississauga, ON L4W 0B6 1-877-371-2273

## **PRECAUTIONS**

- KEEP OUT OF REACH OF CHILDREN.
- Harmful if swallowed, inhaled or absorbed through skin.
- Avoid contact with skin, eyes, or clothing.
- Avoid breathing dust or spray mist.
- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet
- Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Wash contaminated clothing with soap and hot water before re-use.
- Wash skin thoroughly with soap and warm water after handling.
- Do not contaminate any body of water.
- Do not contaminate food or feed.
- Read and follow label instructions and directives.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.

#### NOTE:

- Users should remove personal protective equipment immediately after handling this
  product. Wash the outside of the gloves before removing. As soon as possible, wash
  thoroughly and change into clean clothing.
- Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE) or use detergent and hot water. Keep and wash PPE separately from other laundry.

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

#### TOXICOLOGICAL INFORMATION

**TO PHYSICIAN:** No specific antidote is available. Treat symptomatically.

**SYMPTOMS OF POISONING**: The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by breathing difficulties and sedation.

## **STORAGE**

Store this product away from food and feed. Store the product in original, tightly-closed container, in a cool, dry, secure, well-ventilated area.

#### **DISPOSAL**

# For 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 requirements.

**For 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).

**For Returnable-Refillable Container:** 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 information on 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.

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- Wash contaminated clothing with soap and hot water before re-use.
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- Do not contaminate any body of water.
- Do not contaminate food or feed.
- Read and follow label instructions and directives.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.

## NOTE:

- Users should remove personal protective equipment immediately after handling this product.
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**SYMPTOMS OF POISONING**: The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by breathing difficulties and sedation.

#### **ENVIRONMENTAL PRECAUTIONS**

- Do not use treated crops for food, feed, or forage unless they are specified on this label. Use only according to label direction.
- Do not apply when weather conditions favour drift from areas treated. Do not allow sprays to drift on to adjacent desirable plants.
- Do not contaminate water when disposing of equipment wash waters.
- Do not apply directly to water, or to areas where surface water is present.
- The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (e.g., sandy soil) and/or the depth to the water table is shallow.
- Following application and during rainfall events that cause runoff, these chemicals may reach surface water bodies including streams and reservoirs.
- To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g., soils that are compacted, fine textured or low in organic matter such as clay). Avoid application of this product when heavy rain is forecast.
- Do not exceed rates recommended on this label. Uneven application such as swath overlapping, variable tractor speed, spraying on turns, etc., may result in crop injury and increase chances of injury to succeeding crops.
- After harvest, tillage practices that provide thorough mixing of the soil may be helpful in reducing the chance of injury to succeeding crops.

# SPRAYER CLEANUP

Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops. Drain any remaining spray solution of BASF Metribuzin 480 from the spray tank and discard in non-crop areas away from water supplies. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of 250 mL/100 L of water. Recycle this mixture through the equipment for 5 minutes and spray out. Repeat this procedure twice. Fill the spray tank with clean water, recycle for 5 minutes, and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of the spray tank, nozzles or spray rig.

## TRIPLE RINSE PROCEDURE

- 1. Empty container into spray tank. Then drain in vertical position for 30 seconds;
- 2. Add a measured amount of rinse water (or other diluent) so container is 1/4 or 1/5 full:
- 3. Rinse container thoroughly, pour into tank, and drain 30 seconds. Repeat three times. Add enough water to bring tank up to desired level.

## **STORAGE**

Store this product away from food and feed. Store the product in original, tightly-closed container, in a cool, dry, secure, well-ventilated area.

# **DISPOSAL**

# For 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 requirements.

**For 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).

**For Returnable-Refillable Container:** 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 information on 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.

# **DIRECTIONS FOR USE**

#### MIXING AND SPRAYING INSTRUCTIONS

- It is essential that the sprayer be properly calibrated before making application.
- Spray Pressure for lentils and pea, use 275 kPa.
- Spray Volume refer to appropriate crop section for water volume.
- Use screens no finer than 0.3 mm (50 mesh) in nozzle and in-line strainers (felt filters, or smaller screens will become clogged). A 16 mesh screen is recommended for the filter on the inlet side of the pump.
- Nozzle tips should be no finer than 6502, 8002 or TK 2.
- VIGOROUS, CONTINUOUS AGITATION IS ESSENTIAL FOR PROPER MIXING THROUGHOUT FILLING AND SPRAYING OPERATIONS. Return line agitation is not sufficient. Sparge tube, jet or mechanical agitation is required. Agitation should be sufficient to create a rippling or rolling action on the surface. A pump must be of sufficient capacity to provide adequate volume through the by-pass and/or jet agitation system to provide sufficient agitation even while the booms are operating.
- The sprayer should be checked frequently during application to be sure it is working properly and delivering a uniform spray pattern.
- Avoid over-laps that will increase dosages above those recommended.
- DO NOT APPLY BY AIR.

Before mixing BASF Metribuzin 480, examine the spray equipment making sure it is completely clean and free of rust or corrosion. To ensure the equipment is free of any residues from previously used pesticides, flush lines with clean water or recommended detergents. Use an approved method for disposing of rinse water.

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.

Refer to the other product label for pertinent recommendations regarding mixing procedures. The proper mixing sequence for BASF Metribuzin 480 and recommended tank-mixtures is as follows:

- 1. Fill the spray tank or nurse tank 1/4 full with water.
- 2. Start recirculation and agitation system and continue throughout mixing and application.
- 3. Add recommended amount of BASF Metribuzin 480.
- 4. If tank-mixing with wettable powders or other dry flowable products, refer to these product labels for specific mixing instructions.
- 5. Fill the spray tank with water to the desired level.
- 6. If tank-mixing with emulsifiable concentrates or soluble products, add these products near end of filling the spray tank.
- 7. Continue agitation during transport and application until the spray tank is empty.

BASF Metribuzin 480 and all registered mixtures should be kept agitated once mixed and then sprayed out immediately. Do not allow mixtures to stand for prolonged periods of time. Water quality, pH, temperature and/or other components of the mixture may affect how long the mixture can stand before application.

NOTE: If spraying and agitation is stopped before the spray tank is empty, the suspended material will settle to the bottom of the tank. When spraying must be interrupted, it is recommended to maintain agitation until spraying resumes. If agitation must be stopped before the spray tank is empty, follow these steps to resume spraying:

- 1. Remove main filter.
- 2. Mechanically mix spray solution (i.e., paddle) prior to restarting pump. Ensure that loose sediment is moved out to the sump area.
- 3. Start agitation on full.
- 4. Paddle corners of the tank.
- 5. Reinstall main filter.

At the end of each spray day, rinse out the tank and sprayer lines with water.

## RESTRICTED ENTRY INTERVAL

Do not enter or allow re-entry into treated areas until 12 hours after application.

Apply only to agricultural crops when the potential for drift to areas of human habitation and 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.

It is recommended that this product not be applied in a way that will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area during application.

## SPRAY DRIFT MANAGEMENT

<u>Field sprayer application:</u> **DO NOT** apply during periods of dead calm or when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification.

## **SPRAY BUFFER ZONES**

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, woodlots, hedgerows, pastures, rangelands, and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands), and estuarine/marine habitats.

Crop	Method of Application	Spray Buffer Zones (metres) Required for the Protection of:						
		Freshwater Habitats of Depths			Estuarine/Marine Habitats of Depths			Terrestrial
		Less than 1 m	1-3 m	Greater than 3 m	Less than 1 m	1-3 m	Greater than 3 m	Habitat
All crops	Field sprayer	5	2	1	5	2	1	10
	Field sprayer with shrouds	2	1	0	2	1	0	3
	Field sprayer with cones	4	1	1	4	1	1	5

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 (ASAE) category indicated on the labels for those tank mix partners.

The spray buffer zones for this product 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.

# WESTERN CANADA USES CROP INFORMATION AND RESTRICTIONS

BASF Metribuzin 480 provides selective weed control in:

CANADA WEST		
<ul><li>Field Peas</li><li>Lentils</li></ul>		

BASF Metribuzin 480 may injure the following rotational crops:

- Rotation crops such as onions, celery, peppers, cole crops, lettuce and spinach, sugar beets, table beets and turnips, pumpkin and squash, cucumbers and melons, tobacco, and non-triazine tolerant canola (rapeseed) are sensitive to BASF Metribuzin 480 and may be injured if planted in soil treated with BASF Metribuzin 480 during the year of application or the following crop year.
- Fall seeded or cover crops such as wheat, oats, and rye may be injured when seeded within the same season as the application of BASF Metribuzin 480.

# WEEDS CONTROLLED

NOTE: BASF Metribuzin 480 DOES NOT CONTROL TRIAZINE TOLERANT WEED BIOTYPES.

# Lentils as Postemergence Application (SUPPRESSION\*\* ONLY)

Ball mustard, Common chickweed, Corn spurry, Green smartweed, Hempnettle, Lamb's-quarter, Stinkweed, Tartary buckwheat, Volunteer non-triazine tolerant canola, Wild mustard

# Field Peas (Postemergence)

Ball mustard, Common chickweed, Corn spurry, Green smartweed, Hempnettle, Lamb's-quarter, Stinkweed, Tartary buckwheat, Volunteer non-triazine tolerant canola, Wild mustard

\*\*Suppression is a visual reduction in weed competition (reduced population and /or vigour) as compared to an untreated area.

# **SOIL RESTRICTIONS**

• Do not use on coarse soils with less than 2% organic matter

# **APPLICATION INFORMATION**

## POSTEMERGENCE APPLICATION

- Crop must be planted at least 5 cm below the soil surface.
- Do not use in crop underseeded with forage.
- Do not apply more than once per season except when following split-application recommendations.
- Do not tank-mix with other pesticides, wetting agents, or surfactants unless stated on this label.
- To improve coverage the spray boom may be rotated forward by 45°.
- Activity on weeds may not be noticeable for 7 to 10 days after application.
- BASF Metribuzin 480 may be applied when crop is wet with dew, but weed control may be reduced if there is rainfall within 6 hours after application.
- Temporary (7-10 days) lightening in crop colour and occasional slight reduction in crop height may be observed, especially if frost or abnormally high temperatures occur within 1 to 2 days of application. If frost occurs, allow 4 to 5 days for crop to recover before applying BASF Metribuzin 480.
- Activity on weeds and crop tolerance may be reduced if BASF Metribuzin 480 is applied later than specified crop stages.
- Allow a 4 to 5 day interval between application of BASF Metribuzin 480 and other pesticides such as wild oat herbicides.

# **BASF METRIBUZIN 480 IN COMBINATION WITH OTHER HERBICIDES**

Refer to the other product label for pertinent recommendations, directions for use, restrictions, precautions, and any additional weeds not specified on this label. Unless prohibited on this or other product labels, apply as a broadcast or band application.

#### FIELD PEAS - WESTERN CANADA

- Apply specified dosage as postemergence broadcast spray in at least 170 L of water per hectare.
- Do not apply more than once per season except when following split-application recommendations.
- Do not graze or feed treated crop to livestock within 70 days of application.
- Do not harvest for grain within 70 days of application.
- Do not use on soils containing less than 4% organic matter. Application made before heavy rainfall or irrigation (3 cm or more) on these low organic matter soils may cause crop injury ranging from leaf burn to stand reduction.
- Use higher rate when weed infestation is dense.

BASF Metribuzin 480 Alone: Postemergence Application<sup>1</sup>

Weeds controlled <sup>2</sup>	Products	Rates per hectare	Remarks	
Annual broadleaf weeds (less than 5 cm in height)	BASF Metribuzin 480 (Single application)	425 - 550 mL in one application	Under certain field or weather conditions, a split application of BASF Metribuzin 480 may	
	BASF Metribuzin 480 (Split application)	210 - 280 mL per application	provide better weed control than a single application. The first application should be made at the cotyledon to 2-leaf stage of the weeds. The second application should be made when a second flush of weeds has emerged or if weeds which were more advanced at the time of the first application are starting to regrow. Allow 7 to 10 days between applications.	

- 1. Pea vines must be less than 15 cm long at the time of application. Do not apply within 3 days after periods of cool, wet, or cloudy weather as crop injury may occur.
- 2. Peas may provide poor competition against weed growth. Under conditions of heavy weed pressure or lush weed growth, BASF Metribuzin 480 alone may not provide adequate control due to regrowth of some weeds.

# **LENTILS - WESTERN CANADA**

- Apply specified dosage as postemergence broadcast spray in at least 170 L of water per hectare.
- Do not apply more than once per season except when following split-application recommendations.
- Do not graze or feed treated crop to livestock within 70 days of application.
- Do not harvest for grain within 70 days of application.
- Do not use on soils containing less than 4% organic matter. Application made before heavy rainfall or irrigation (3 cm or more) on these low organic matter soils may cause crop injury ranging from leaf burn to stand reduction.
- Use higher rate when weed infestation is dense.

BASF Metribuzin 480 Alone: Postemergence Application<sup>1</sup>

Weeds suppressed	Products	Rates per hectare	Remarks
Annual broadleaf weeds (less than 5 cm in height) <sup>2</sup>	BASF Metribuzin 480 (Single application)	425 mL in one application	Under certain field or weather conditions, a split application of BASF Metribuzin 480 may provide better weed suppression than a single application. The first application should be made at the cotyledon to 2-leaf stage of the weeds. The second application should be made when a second flush of
	BASF Metribuzin 480 (Split application)	210 - 280 mL per application	weeds has emerged or if weeds, which were more advanced at the time of the first application, are starting to regrow. Allow 7 to 10 days between applications.

- 1. Lentil vines must be less than 15 cm long or in the 3 to 5-node stage at the time of application. Do not apply within 3 days after periods of cool, wet, or cloudy weather as crop injury may occur.
- 2. Lentils may provide poor competition against weed growth. Under conditions of heavy weed pressure or lush weed growth, BASF Metribuzin 480 alone may not provide adequate suppression due to regrowth of some weeds.

# RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, BASF Metribuzin 480 is a Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to BASF Metribuzin 480 and other Group 5 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. 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 herbicide resistance:

- Where possible, rotate the use of BASF Metribuzin 480 or other Group 5 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.

- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance- management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact BASF at 1-877-371-2273 or at <a href="https://www.agsolutions.ca">www.agsolutions.ca</a>.