

Container

Pethoxamid 480EC

HERBICIDE

COMMERCIAL

Emulsifiable Concentrate

For Use on Field corn and Soybean

ACTIVE INGREDIENT: Pethoxamid480 g/L
Contains benzoic acid at 5.00% as a preservative

KEEP OUT OF REACH OF CHILDREN



POISON

**WARNING EYE AND SKIN IRRITANT
POTENTIAL SKIN SENSITIZER**

READ THE LABEL BEFORE USING

REGISTRATION No.: **33466** PEST CONTROL PRODUCTS ACT

Net Contents: 1L to Bulk

IN CASE OF EMERGENCY, CALL 1-800-331-3148 (24 HOURS)

FMC of Canada Limited
6755 Mississauga Road, Suite 204
Mississauga, ON L5N 7Y2
1-833-362-7722

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed. Causes eye and skin irritation. DO NOT get in eyes, on skin or on clothing. Potential skin sensitizer. Wear appropriate protective eyewear such as goggles. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear chemical-resistant coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and chemical-resistant footwear during mixing, loading, application, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing and loading. Gloves are not required during application within a closed cab. When handling more than 700 L of Pethoxamid 480EC per day, workers must use a closed mix/load system.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

FIRST AID

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 **any** liquid to the person. Do not give anything by mouth to an unconscious person.

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.

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.

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

For medical emergencies call 1-800-331-3148.

TOXICOLOGICAL INFORMATION

No specific antidote. Treat symptomatically.

Contains petroleum distillate - vomiting may cause aspiration pneumonia.

ENVIRONMENTAL PRECAUTIONS

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

This product contains (an) active ingredient(s) and aromatic petroleum distillates which are toxic to aquatic organisms.

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 strip between the treated area and the edge of the water body.

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Ground Water Advisory: Pethoxamid 480EC has properties and characteristics associated with chemicals detected in ground water. This use of pethoxamid in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Surface Water Advisory: This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having a high potential for reaching surface water via runoff for several months or more after application.

RESTRICTED ENTRY INTERVAL

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

STORAGE

Store the product in closed original container in a well-ventilated room. Keep out of reach of children, unauthorized persons and animals. Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

To prevent contamination, store this product away from food, feed and fertilizer.

DISPOSAL

Any unused product must be returned to the manufacturer. 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.

For recyclable containers:

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 reusable containers:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Do not reuse this container for any other purpose.

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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Booklet

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Avoid application when heavy rain is forecast.

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

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Ground Water Advisory: Pethoxamid 480EC has properties and characteristics associated with chemicals detected in ground water. This use of pethoxamid in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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RESTRICTED ENTRY INTERVAL

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

STORAGE

Store the product in closed original container in a well-ventilated room. Keep out of reach of children, unauthorized persons and animals. Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

To prevent contamination, store this product away from food, feed and fertilizer.

DISPOSAL

Any unused product must be returned to the manufacturer. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.

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2. Do not reuse this container for any other purpose.

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.

PRODUCT INFORMATION

Pethoxamid 480EC is a selective herbicide recommended as a preemergence treatment for control of annual grasses and certain broadleaf weeds in field corn and soybean. Pethoxamid 480EC can be applied in all tillage systems (conventional, reduced and no-tillage).

This product will not control emerged weeds. If weeds are emerged at the time of application, apply a registered postemergence herbicide to control emerged weeds or cultivate field before application. Dry weather following preemergence application of Pethoxamid 480EC may reduce effectiveness. Application of this product followed by poor crop growing conditions such as cold, wet soil stress or waterlogged conditions from excessive rainfall or irrigation may result in crop injury. Tank-mixes with other residual herbicides may also increase the potential for crop injury.

RESTRICTIONS

Do not use in nurseries, turf, or landscape plantings.

Do not apply under conditions which favor runoff or wind erosion of soil containing this product to non-target areas.

Do not use on peat or muck soils and mineral soils with 10% or more organic matter content.

To prevent off-site movement due to runoff or wind erosion:

1. **Avoid** treating powdery dry or light sand soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.
2. **Do not** apply to impervious substrates, such as paved or highly compacted surfaces.
3. **Do not** use tailwater from the first flood or furrow irrigation of treated fields to treat non-target crops, unless at least 1.25 cm (½-inch) of rainfall has occurred between application and the first irrigation.
4. Application of this product followed by poor crop growing conditions such as cold, wet soil stress or waterlogged conditions from excessive rainfall or irrigation may result in crop injury. Tank-mixes with other residual herbicides may also increase the potential for crop injury.
5. Before applying to the labeled crop, verification of Pethoxamid 480EC selectivity on your variety must be confirmed to avoid injury to sensitive varieties. If variety tolerance is unknown, such as with new varieties, apply Pethoxamid 480EC on a small area to confirm variety safety before use on a large acreage.

APPLICATION INFORMATION

DO NOT apply using aerial application equipment.

Pethoxamid 480EC can be applied with conventional ground spraying equipment.

Ground Application

Utilize a boom and nozzle sprayer equipped with the appropriate nozzles, spray tips and screens and adjusted to provide optimum spray distribution and coverage at the appropriate operating pressures. Utilize nozzles that produce minimal amounts of fine spray droplets to avoid spray drift or inadequate foliar and soil coverage. Apply a minimum of 100 litres of spray solution per hectare by ground. Be aware that spray pattern overlaps and slower ground speeds while starting, stopping or turning while spraying may result in excessive application and subsequent crop injury.

Spray Drift Management

Minimizing spray drift at the application site is the responsibility of the applicator and the grower. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

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 inversion, application equipment and sprayer settings.

One of the most effective ways to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage for pesticide performance. Applying larger droplets reduces drift potential but will not reduce drift if applications are made improperly or under unfavorable environmental conditions.

Controlling Spray Droplet Size

Volume: Use high flow rate nozzles to apply the greatest practical spray volume. Nozzles with higher rated flow generally produce larger droplets.

Pressure: When higher flow rates are needed, use higher flow rate nozzles rather than increasing spray pressure. Do not exceed the nozzle manufacturer's recommended pressures. Lower pressure produces larger droplets in many types of nozzles.

Nozzle Type: Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles for ground application.

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.

DO NOT apply using aerial application equipment.

Buffer zones

Spot treatments using hand-held equipment DO NOT require a buffer zone.

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, 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	Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitats of Depths:		Estuarine/Marine Habitats of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Field corn, soybean	1	1	3	1	1

For tank mixes, consult the labels of the tank-mix partners and observe the largest (most restrictive) 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 buffer zones for this product can be modified based on weather conditions and spray equipment configuration by accessing the Buffer Zone Calculator on the Pesticides portion of the Canada.ca website.

Pethoxamid 480EC provides selective preemergent weed control in field corn and soybean.

PREEMERGENCE APPLICATION:

- Apply evenly to a firm, lump-free seed bed.
- Rainfall or irrigation is required within 10 days for herbicidal activation or a shallow cultivation or use of a rotary hoe is necessary.
- Preemergence applications may be made in all tillage systems, including conventional, reduced tillage, ridge tillage, and no-till systems.
- Minimize exposure of untreated soil when cultivating or fertilizing.

All soil applications of Pethoxamid 480EC require adequate rainfall for herbicidal activation. In crop situations, dependent on rainfall, Pethoxamid 480EC can await activating moisture for extended periods (10 to 14 days or longer). Once activated, Pethoxamid 480EC will provide activity to susceptible germinating weeds. Where irrigation is not available, and rainfall has not provided activation, particularly for surface applications of Pethoxamid 480EC, a shallow incorporation is recommended to initiate the process of activation with existing soil moisture. In circumstances where prolonged periods without rainfall or irrigation are not possible, alternative or additional weed management practices (cultivation or post-applied herbicides) may be required. When activating moisture is received after dry conditions, Pethoxamid 480EC may provide a reduced level of control of susceptible germinating weeds.

Mode of Action

Pethoxamid 480EC is taken up by the shoots and/or roots of emerging weeds. This uptake results in the inhibition of shoot and root tissue growth soon after weed germination. Pethoxamid 480EC alone will not control emerged weeds and should be applied prior to weed emergence. If weeds are emerged at the time of application, apply a registered postemergence herbicide to control emerged weeds.

Applicator's information

Utilize a boom and nozzle sprayer or boomless ground sprayer equipped with the appropriate nozzles, spray tips and screens and adjusted to provide optimum spray distribution and coverage at the appropriate operating pressures. Utilize boom and nozzle and boomless sprayer configurations which produce minimal amounts of fine spray droplets. Do not exceed 175 kPa spray pressure unless otherwise required by the manufacturer of drift reducing nozzles or boomless application systems. Apply a minimum of 100 L/ha of spray solution.

Water must be used as the carrier for Pethoxamid 480EC.

Do not allow spray mixtures to sit overnight due to potential settling of product and difficulty in resuspending may occur.

Avoid spray drift to adjacent plants as injury to other plants may occur.

MIXING and LOADING

Spray Tank Preparation

It is important that spray equipment is clean and free of existing pesticide deposits before using this product. Follow the spray tank clean out procedures specified on the label of product previously applied before adding Pethoxamid 480EC to the tank.

Mixing and Loading Instructions

Pethoxamid 480EC is an emulsifiable concentrate intended for dilution with water. For best results, fill spray tank with one half of the volume of clean water needed for the area to be treated. Start the agitation system. Slowly add the Pethoxamid 480EC to the spray tank. Complete filling the spray tank to the desired level. Continuous spray tank agitation is required at all times to maintain a uniform spray solution. Make sure Pethoxamid 480EC is thoroughly mixed before application.

Use the Pethoxamid 480EC spray solution immediately after mixing.

Do not store the sprayer overnight or for any extended period of time with the Pethoxamid 480EC spray solution remaining in the tank.

TANK MIXTURES

Pethoxamid 480 EC may also be applied in tank mixes with other registered herbicides. Tank mixes are generally used to broaden or extend control of the weed spectrum present. Tank mix herbicides must be registered for intended use.

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 pesticide efficacy or increased host crop injury. The user should contact FMC of Canada Limited at 1-833-362-7722 for information before mixing any pesticide or fertilizer that is not specifically recommended on this label. The user assumes the risk of losses that result from the use of tank mixes that do not appear on this label or that are not specifically recommended by FMC of Canada Limited.

Compatibility Test

Additives and tank mixes should be tested for compatibility by mixing in a small container prior to mixing in spray tank.

In a lidded glass jar (~1 litre size) add all mix partners, in their relative proportions. Invert, shake or mix the jar thoroughly.

If mixture forms precipitates (flakes or sludge), gels, balls-up or forms oily films or layers, this indicates incompatibility. Though signs of incompatibility will typically be seen within 5 minutes of mixing, mixture should be observed for approximately 30 minutes.

If compatibility agents do not facilitate mixing, the mixture is incompatible and should not be used.

CROP ROTATIONAL RESTRICTIONS

If initial planting of labeled crops fails to produce a stand, only labeled crops for Pethoxamid 480EC may be replanted. **Do not retreat field with Pethoxamid 480EC.** When replanting use minimum soil tillage to preserve the herbicide barrier and achieve maximum weed control. Fields treated with Pethoxamid 480EC can be seeded to field corn or soybean the following year.

For all other crops, A MINIMUM ROTATIONAL CROP INTERVAL OF 12 MONTHS must be observed and a representative bioassay of the field (a test strip grown to maturity) must be conducted with the rotational crop and adequate soil moisture to confirm crop safety prior to seeding.

SPRAYER EQUIPMENT CLEAN-OUT

After spraying Pethoxamid 480EC and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure:

1. Drain sprayer tank, hoses, and spray boom. Use a high-pressure detergent wash to remove physical sediment and residues from the inside of the sprayer tank and thoroughly rinse. Then thoroughly flush all sprayer hoses, booms, and nozzles with clean water.
2. Prepare a sprayer cleaning solution by adding three litres of ammonia (containing at least 3% active) per 100 litres of clean water. Prepare sufficient cleaning solution to allow the operation of the spray system for a minimum of 15 minutes to thoroughly flush hoses, spray boom and spray nozzles.
3. Convenient and thorough cleaning of the sprayer can be achieved if the ammonia solution or fresh water is left in the spray tank, hoses, spray booms and spray nozzles overnight or during storage.
4. Drain the sprayer system. Rinse the tank with clean water and flush through the hoses, boom, and nozzles. Remove and clean spray tips and all strainers and screens separately in an ammonia solution.
5. Properly dispose of all cleaning solution and rinsate in accordance with provincial guidelines and regulations.

Do not drain or flush equipment on or near desirable trees or plants.

Do not contaminate any body of water including irrigation water that may be used on other plants or crops.

CROP USE DIRECTIONS

WEEDS CONTROLLED

When used as directed, Pethoxamid 480EC will provide preemergence control or suppression of the

following weeds.

Table 1. Weeds controlled or suppressed

Common Name	Control (C) or Suppression (S)
Barnyard grass	S
Crabgrass, large	S
Crabgrass, smooth	S
Foxtail, giant	S
Foxtail, green	C
Foxtail, yellow	C
Lady's thumb	C
Lamb's quarters, common	S
Nightshade, Eastern black	C
Ragweed, common	S
Pigweed, redroot	C
Plantain	C
Purslane, common	C
Shepherd's purse	C
Velvetleaf	S

Refer to crop section of this label for any additional recommendations.

Where reference is made to weed "suppression", this can either mean inconsistent efficacy (ranging from poor to good control), or efficacy that is consistent, but below levels generally considered as good control. Control of these weeds can be erratic, due partially to variable weather conditions. Dry weather following application of Pethoxamid 480EC may reduce weed control. The following procedures may improve the control of weeds listed as partially controlled in Table 1:

1. Thoroughly till soil to destroy germinating and emerged weeds.
2. Plant crop into moist soil immediately after tillage. Apply Pethoxamid 480EC preemergence after planting but before crop emergence.
3. If available, sprinkler irrigate with 1.25 cm (½ inch) water within 7 days after application.
4. If irrigation is not possible and rain does not occur within 7 days after planting and application, weed control may be reduced. Under these conditions, a uniform, shallow cultivation is recommended as soon as weeds emerge.

USE DIRECTIONS FOR FIELD CORN

For field corn, Pethoxamid 480EC may be applied after planting but before crop emergence using broadcast spray equipment.

Application Rates

Apply Pethoxamid 480EC at 2.3 to 3.5 L/ha for preemergence control or suppression of the weeds listed in Table 1.

Use the higher rate of Pethoxamid 480EC when weed pressure is high and/or conditions are favorable for weed development and/or in heavy soil with higher organic matter content. The higher rate will also provide longer duration of control or suppression.

Apply a minimum of 100 litres of spray solution per hectare by ground.

Tank Mixes for Field Corn

When applying to field corn, Pethoxamid 480EC may be tank mixed with the following products to increase the spectrum of weeds controlled or suppressed and/or to control emerged weeds at the time of application.

Tank Mix Partner for Corn	Rate per Hectare
Aatrex [®] Liquid 480	2.1-3.1 L
Callisto [®] 480SC	0.3 L
Glyphosate	at labeled rates

Restrictions

- The maximum application rate is 3.5 L/ha.
- Field corn seed must be planted a minimum of 3.8 cm (1.5 inches) deep. Shallow planting can lead to increased crop injury risk.
- Before applying to field corn, verification of Pethoxamid 480EC selectivity on your inbred line or hybrid line must be confirmed with your local seed company or supplier to avoid potential injury to sensitive inbreds or hybrids.
- **Do not** use on peat or muck soils and mineral soils with 10% or more organic matter content.

Following treatment with Pethoxamid 480EC, follow these grazing restrictions:

- **DO NOT** permit livestock to graze fields or harvest forage within 40 days after application.
- **DO NOT** harvest stover within 70 days after application.

USE DIRECTIONS FOR SOYBEAN

For soybeans, Pethoxamid 480EC may be applied after planting but before crop emergence using broadcast spray equipment.

Application Rates

Apply Pethoxamid 480EC at 2.3 to 3.5 L/ha for preemergence control or suppression of the weeds listed in Table 1.

Use the higher rate of Pethoxamid 480EC when weed pressure is high and/or conditions are favorable for weed development, and/or in heavy soil with higher organic matter content. The higher rate will also provide longer duration of control or suppression.

Apply a minimum of 100 litres of spray solution per hectare by ground.

Tank Mix for Soybean

When applying to soybean, Pethoxamid 480EC may be tank mixed with the following product to increase the spectrum of weeds controlled or suppressed and/or to control emerged weeds at the time of application.

Tank Mix Partner for Soybean	Rate per Hectare
Glyphosate	at labeled rates

Restrictions

- The maximum application rate is 3.5 L/ha.
- **Do not** use on peat or muck soils and mineral soils with 10% or more organic matter content.

Following treatment with Pethoxamid 480EC, follow these grazing restrictions:

- **DO NOT** permit livestock to graze fields within 7 days after application.
- **DO NOT** harvest forage or cut hay within 7 days after application.

RESISTANCE MANAGEMENT

For resistance management, Pethoxamid 480EC is a Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to Pethoxamid 480EC and other Group 15 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 Pethoxamid 480EC or other Group 15 herbicides within a growing season 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 FMC of Canada Limited representatives at 1-833.362-7722

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