

2017-12-05

2017-1093

<b>GROUP 14 15 HERBICIDE</b>
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**FOCUS<sup>®</sup>**

**Herbicide**

**COMMERCIAL (AGRICULTURAL)**

Suspension Emulsion (SE) for selective weed control

For weed control in field corn, soybeans, wheat (spring and winter) and lentils.

**ACTIVE INGREDIENT:**

Pyroxasulfone.....	447 g/L
Carfentrazone-ethyl.....	53 g/L

Contains 5-chloro-2-methyl-4-isothiazolin-3-one at 0.0016% and 2-methyl-4-isothiazolin-3-one at 0.00052% as a preservative.

**READ THE LABEL BEFORE USING**

**KEEP OUT OF REACH OF CHILDREN**

REGISTRATION NO. **32292**  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: 1 - 1000 L

**FMC Corporation**  
2929 Walnut Street  
Philadelphia, PA 19104  
1-800-331-3148

Label

## **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 Product Act* to use this product in a way that is inconsistent with the directions on the label.

## **FIRST AID**

### **If Swallowed**

Call a poison control centre or doctor immediately for treatment advice. Do not give **any** liquid to the person. 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 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 the container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

You may also contact **1-800-331-3148** for emergency medical treatment information.

## **TOXICOLOGICAL INFORMATION**

Treat symptomatically. Contains petroleum distillate – vomiting may cause aspiration pneumonia.

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN.**

Avoid contact with skin, eyes or clothing. 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.

Apply only when the potential for drift to areas of human habitation or 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.

**DO NOT** apply by air.

**Personal Protective Equipment (PPE)**

Follow mixer/loader and applicator scenario, as appropriate in the chart below.

Equipment	Personal Protective Equipment	
	Mixer/Loader/ Cleanup and Repair	Applicator
Groundboom	Long-sleeved shirt and long pants, chemical-resistant footwear, plus socks and chemical-resistant gloves	Coveralls over long-sleeved shirt and long pants, shoes plus socks  Apply in a closed cab tractor.*

\* A closed cab is a chemical resistant barrier that completely surrounds the occupant of the cab and prevents contact with the pesticide or treated surfaces outside the cab.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Follow manufacturer’s instructions for cleaning and maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Restricted Entry Interval**

**DO NOT** enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

**ENVIRONMENTAL HAZARDS**

Toxic to non-target terrestrial plants. This product contains active ingredients and aromatic petroleum distillates which are toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

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.

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.

## **STORAGE**

Store in original container in cool, dry, well-ventilated location. STORE ABOVE 5°C TO KEEP PRODUCT FROM FREEZING. If frozen, thaw before use. If solid crystals are observed, warm material to above 15 °C by placing container in warm location. Shake or roll container periodically to redissolve solids.

To prevent contamination store this product away from food or feed.

## **DECONTAMINATION AND DISPOSAL**

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 returnable containers:**

Do not reuse this container for any purpose. For disposal, this empty 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 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.

<p style="text-align: center;"><b>IN CASE OF A MEDICAL EMERGENCY, CALL TOLL FREE, DAY OR NIGHT: 1-800-331-3148</b></p>
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## **GENERAL INFORMATION**

**Focus Herbicide** is a selective pre-plant/pre-emergence herbicide for controlling annual grasses and annual broadleaf weeds in spring wheat, winter wheat, field corn, soybeans and lentils. Focus Herbicide is formulated as a suspension emulsion containing a total of 500 grams of the active ingredients pyroxasulfone and carfentrazone-ethyl, per litre, intended for dilution in water for application.

Observe all instructions, mixing directions, precautions and other label information of Focus Herbicide.



**DIRECTIONS FOR USE**  
**General Application Instructions**

Focus Herbicide may be applied as a pre-plant or pre-emergence surface application. See below for the proper rates of application.

All soil applications of Focus Herbicide require adequate rainfall for herbicidal activation. Dry weather following applications of Focus Herbicide may reduce effectiveness. Focus Herbicide may not control weeds that germinate after application but before an activating rainfall / irrigation, or weeds that germinate through cracks resulting from dry soil. However, when adequate moisture is received after dry conditions, Focus Herbicide may provide a reduced level of control of susceptible germinating weeds. When adequate moisture is not received after Focus Herbicide application, weed control may be improved by irrigation (**DO NOT** use flood irrigation).

Excessive rainfall, irrigation, or prolonged wet soil conditions after application of Focus Herbicide from seed germination through seedling emergence may increase the risk of seedling injury, especially with shallow seeded crops.

Before applying, verification of Focus Herbicide selectivity on your crop variety must be confirmed to avoid injury to sensitive varieties. If variety tolerance is unknown apply Focus Herbicide on a small area to confirm variety safety before use on large scale.

**General Use Restrictions**

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

**DO NOT** apply during periods of dead calm. **DO NOT** apply during periods of gusty winds.

**DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. **DO NOT** raise boom height above 60 cm above the crop or ground.

**DO NOT** use on peat or muck soils and soils with 7% or more organic matter content.

**DO NOT** apply to soils classified as sand containing less than 1% organic matter.

**DO NOT** apply through any type of irrigation system.

**DO NOT** apply Focus Herbicide or Focus Herbicide tank mixtures when environmental conditions may result in drift to non- target sites. Drift of this product may be harmful to non-target plants near the treatment area.

**Buffer zones**

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).

Method of application	Buffer Zones (metres) Required for the Protection of:		
	Freshwater Habitat of Depths:		Terrestrial habitat
	Less than 1 m	Greater than 1 m	
Field sprayer	5	3	5

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.

NOTE: Applicators may recalculate a site-specific buffer zone by combining information on current weather conditions and spray configuration for the following applications: all airblast applications, and for field and aerial applications which specify the following droplet size category wording on the product label: 'DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) [Fine or Medium or Coarse] classification.' To access the Buffer Zone Calculator, please visit the Pest Management Regulatory Agency web site.

### **Weeds controlled (pre-emergence to weed)**

#### Annual grasses

Wild oats (suppression)  
Foxtail, green  
Foxtail, yellow  
Foxtail, giant (suppression)  
Foxtail barley (suppression)  
Barnyardgrass  
Downy brome  
Japanese brome  
Italian ryegrass  
Large crabgrass

#### Annual broadleaf weeds

Redroot pigweed  
Green Pigweed  
Cleavers  
Common waterhemp  
Stinkweed (suppression)  
Velvet leaf  
Wormseed Mustard  
Kochia (suppression)  
Lamb's quarters (suppression)  
Wild Buckwheat (suppression)  
Wild Mustard (suppression)

The consistency and duration of weed control may be reduced on heavy soils and soils with higher organic matter content.

### **Mixing and Spraying Instructions**

Focus Herbicide is a suspension emulsion intended for dilution with water. Use a minimum spray volume of 100 litres of solution per hectare and a spray pressure of 200-275 kPa.

Keep bypass line on or near bottom of tank to minimize foaming.

Focus Herbicide can be mixed with one or more herbicide products, provided that the tank mix product labels do not prohibit such mixing. Follow the most restrictive label for all products used. Refer to the Crop-Specific Information section to determine which tank mix products can be applied to specific crops. Physical incompatibility, reduced weed control, or crop injury may result from mixing Focus Herbicide with other pesticides, additives, or fertilizers.

### **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 Focus Herbicide to the tank.

### **Mixing and Loading Instructions**

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 Focus Herbicide 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 Focus Herbicide is thoroughly mixed before application.

Use the Focus Herbicide mixture immediately after mixing.

Use **W-A-L-E-S** tank-mix order

First, fill sprayer tank with water 1/3 to 1/2 full, add any fertilizer and pH adjuster, then add **W**ettable powders and water dispersible granules slowly, then **A**gitate tank mix thoroughly, then add **L**iquid flowables and suspensions, then add **E**mulsi-fiable concentrate formulations, and finally add **S**olution based products /Surfactants

Maintain constant agitation during application.

Do not store the sprayer overnight or for any extended period of time with the spray mixture remaining in the tank.

### **Sprayer Equipment Clean-Out**

After spraying Focus Herbicide 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 Specific Use Rates and Information:**

**Soil Texture**

Unless a specific soil texture is mentioned, rate tables throughout this label refer to the table below for soil texture groups: coarse, medium, medium-fine and fine. This includes a complete listing of soil textures included in each of the soil texture groupings.

Coarse	Medium	Medium-Fine	Fine
Sand Loamy sand Sandy loam	Loam Silt loam Silt	Sandy clay loam Sandy clay Silty clay loam	Silty clay Clay loam Clay

**Set-Up Treatment**

A set-up treatment is an application to remove early weed competition to allow good crop establishment. An in-crop application of herbicide may be required subsequently to control emerged weeds.

**Spring and winter wheat (excluding durum)**

Focus Herbicide can be applied pre-plant or pre-emergence for weed control in both spring and winter wheat. Focus Herbicide may result in wheat injury, but final grain yield should not be negatively impacted. Before applying to wheat, verification of Focus Herbicide selectivity on wheat varieties must be confirmed with your local seed company or supplier to avoid potential injury to sensitive varieties. Focus Herbicide should be applied to a uniform seedbed which is firm and free of clods. Crop seeds must be planted a minimum of 2.5 cm deep.

Application method and timing	Rate (ml/ha) of Focus Herbicide
	Coarse, Medium, Medium-Fine, Fine (all textures)
Setup Treatment (pre-plant or pre-emergence)	224 ml/ha (early season control only)
Residual Treatment (pre-plant or pre-emergence)	280 ml/ha (coarse/medium texture, O.M. 1 – 4%) 336 ml/ha (medium-fine/fine texture, O.M. 4 - 7%)
Tank-mix partners	Glyphosate at labeled rates

**Crop Specific Restrictions and Limitations**

- DO NOT** apply to durum wheat.
- DO NOT** make more than one application per season.

**DO NOT** allow livestock to graze or feed on wheat grain, forage, hay or straw less than 42 days after the application.

**Field corn**

Focus Herbicide can be used as a pre-plant surface, or pre-emergence treatment. Before applying to corn, verification of Focus Herbicide 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. Crop seeds must be planted a minimum of 2.5 cm deep.

Application method and timing	Rate (ml/ha) of Focus Herbicide
	Coarse, Medium, Medium-Fine, Fine (all textures)
Setup Treatment (pre-plant or pre-emergence)	224 ml/ha (early season control only)
	Tank Mix Partners: Aatrex® Liquid 480 – 2.1-3.1 L Glyphosate at labeled rates
Residual Treatment (pre-plant or pre-emergence)	280 ml/ha (coarse/medium texture, O.M. 1-4%) 336 ml/ha (medium-fine/fine texture, O.M. 4-7%)
	Tank Mix Partners: Aatrex® Liquid 480 – 2.1-3.1 L Glyphosate at labeled rates

Crop Specific Restrictions and Limitations

**DO NOT** make more than one application per season.

**A shallow incorporation may be used but even distribution of the product must be maintained or weed control may be reduced.**

**Soybeans**

Focus Herbicide can be applied pre-plant or pre-emergence. Before applying to soybean, verification of Focus Herbicide selectivity on soybean varieties must be confirmed with your local seed company or supplier to avoid potential injury to sensitive varieties. Crop seeds must be planted a minimum of 4 cm deep. **DO NOT** apply Focus Herbicide if soybeans have emerged.

The use of Focus Herbicide may result in temporary growth suppression if extreme conditions of high rainfall and extended periods of water-saturated soil occur during soybean germination or early seedling development. These suppressions have not resulted in reduced soybean yield potential.

Application method and timing	Rate (ml/ha) of Focus Herbicide
	Coarse, Medium, Medium-Fine, Fine (all textures)
Setup Treatment (pre-plant or pre-emergence)	224 ml/ha (early season control only)
Residual Treatment (pre-plant or pre-emergence)	280 ml/ha (coarse/medium texture, O.M. 1 – 4%) 336 ml/ha (medium-fine/fine texture, O.M. 4 - 7%)
Tank-mix partners	Glyphosate at labeled rates

### Crop Specific Restrictions and Limitations

**DO NOT** make more than one application per season.

#### Lentils

Focus Herbicide can be applied pre-plant or pre-emergence. Before applying to lentils, verification of FOCUS Herbicide selectivity on varieties must be confirmed with your local seed company or supplier to avoid potential injury to sensitive varieties. Crop seeds must be planted a minimum of 2.5 cm deep. **DO NOT** apply FOCUS Herbicide if lentils have emerged.

Under certain conditions, FOCUS Herbicide can affect lentil growth. These conditions include high pH (7.5 and above), cool weather, prolonged and excessive moisture, seedling diseases, and any other conditions, including poor agronomic practices, that are unfavorable to vigorous crop growth. Such effects are often observed as stunting and discoloration. The duration of these effects is somewhat dependent on the duration of the adverse growing conditions. These effects lessen and generally diminish with the return to normal growing conditions.

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Setup Treatment (pre-plant or pre-emergence)	224 ml/ha (early season control only)
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Tank-mix partners	Glyphosate at labeled rates

### Crop Specific Restrictions and Limitations

**DO NOT** make more than one application per season.

**DO NOT** apply products containing saflufenacil with, before or after application of FOCUS Herbicide as crop injury may occur.

## **CROP ROTATIONAL RESTRICTIONS**

If any crop treated with Focus Herbicide is lost, field corn, soybean, wheat (spring and winter) and lentils can be replanted immediately. **Do not** make a second application of Focus Herbicide in the same year. Fields treated with Focus Herbicide can be seeded to field corn, soybean, spring wheat and lentils the following year and winter wheat with a four month re-cropping interval. Conduct a field bioassay (a test strip grown to maturity) to confirm crop safety prior to seeding any rotational crops other than field corn, soybean, wheat and lentil.

If there is a lack of adequate or normal soil moisture due to drought conditions following an application of Focus Herbicide, the minimum rotational crop interval described above must be extended for one additional year and a representative bioassay of the field must be conducted with the potential rotational crop and adequate soil moisture to determine the crop sensitivity to Focus Herbicide.

## **RESISTANCE MANAGEMENT**

For resistance management Focus Herbicide contains a Group 14 and Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to Focus Herbicide and other Group 14 or 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 Focus Herbicide or other Group 14 and 15 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 FMC CORPORATION representatives at [www.fmccrop.ca](http://www.fmccrop.ca)

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Aatrex® is a trademark of a Syngenta Group Company