

2026-0681
2026-03-09

Container Label

GROUP	14	HERBICIDE
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MACH ONE™ WG HERBICIDE

COMMERCIAL (AGRICULTURAL)

WETTABLE SOLUBLE GRANULAR HERBICIDE

FOR SALE FOR USE IN THE PRAIRIE PROVINCES AND
INTERIOR OF BRITISH COLUMBIA (INCLUDING THE PEACE RIVER REGION) ONLY

ACTIVE INGREDIENT: Saflufenacil..... 70%

Warning: Contains the allergen sulfites

REGISTRATION NO. 35900 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND BOOKLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

NET CONTENTS: 844 g

**For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or
Accident Call CHEMTREC 1-800-424-9300 / +1 703-527-3887**

NewAgco Inc.

Box 5070

Saskatoon, Saskatchewan

Canada S7K 3N9

Ph: 1-866-639-2420

MACH ONE™ is a trademark of NewAgco Inc. or its affiliates.

PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. **DO NOT** take internally. Harmful if swallowed.
3. **DO NOT** get in eyes or on skin. Causes eye and skin irritation. Avoid inhalation of vapor or spray.
4. **DO NOT** eat, drink or smoke/vape while using this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum/tobacco, smoking/vaping, or using the toilet. Aircraft cockpit and vehicle cabs must be decontaminated regularly.
5. Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair.
6. For application using ground equipment: Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during application within a closed cab.
7. For application using aerial equipment: Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during application within a closed cockpit.. Do not allow the pilot to mix chemicals to be loaded onto the aircraft. The pilot is allowed to load premixed chemicals with a closed system. It is desirable that the pilot have communication capabilities at each treatment site at the time of application.
8. If the product comes in contact with clothing/PPE, remove all contaminated clothing/PPE, wash with soap and water and dress in clean clothing. Wash the outside of gloves with soap and water before removing. Launder contaminated clothing/PPE regularly and separately from other laundry.
9. Apply only when the potential for drift to beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
10. **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If 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.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

ENVIRONMENTAL PRECAUTIONS

Toxic to non-target terrestrial plants. Observe spray buffer zones specified under Section 17 (Restrictions and Limitations).

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

STORAGE

1. Store the product in original, tightly-closed container and do not allow water to be introduced into this container.
2. Store this product away from food or feed.
3. **DO NOT** ship or store the product near seed or fertilizers.
4. Store the product in a cool, dry, locked, well-ventilated area without floor drain.
5. Herbicides should be shipped or stored separately from other pesticides to avoid cross contamination.

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 or territorial requirements.

For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for cleanup of spills.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label.

Booklet Label

GROUP

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1.0 GENERAL INFORMATION

MACH ONE WG HERBICIDE is a wettable soluble granular herbicide for broadleaf weed control.

MACH ONE WG HERBICIDE is rapidly absorbed by root and foliar uptake; once absorbed it exhibits mobility in plants. **MACH ONE WG HERBICIDE** is a potent inhibitor of protoporphyrinogen oxidase (PPO). Cell membrane damage induced by inhibition of PPO leads to plant death. Susceptible weeds develop injury symptoms within hours of application under active growing conditions; plant death occurs within 3 to 5 days depending upon growing conditions.

MACH ONE WG HERBICIDE is recommended for pre-seed and pre-emergent applications. **MACH ONE WG HERBICIDE** may also be applied in fallow crop lands and post-harvest, and as a pre-harvest weed management treatment and harvest aid in registered crops.

MACH ONE WG HERBICIDE does not control grass weeds. **MACH ONE WG HERBICIDE** should always be tank mixed with glyphosate for broad spectrum weed control.

MACH ONE WG HERBICIDE is a broad spectrum weed resistance management tool for activity on a range of broadleaf weeds.

2.0 PRECAUTIONS

1. **KEEP OUT OF REACH OF CHILDREN.**
2. **DO NOT** take internally. Harmful if swallowed.
3. **DO NOT** get in eyes or on skin. Causes eye and skin irritation. Avoid inhalation of vapor or spray.
4. **DO NOT** eat, drink or smoke/vape while using this product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum/tobacco, smoking/vaping, or using the toilet. Aircraft cockpit and vehicle cabs must be decontaminated regularly.
5. Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, clean-up and repair. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair.
6. For application using ground equipment: Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during application within a closed cab.
7. For application using aerial equipment: Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Gloves are not required during application within a closed cockpit.. Do not allow the pilot to mix chemicals to be loaded onto the aircraft. The pilot is allowed to load premixed chemicals with a closed system. It is desirable that the pilot have communication capabilities at each treatment site at the time of application.
8. If the product comes in contact with clothing/PPE, remove all contaminated clothing/PPE, wash with soap and water and dress in clean clothing. Wash the outside of gloves with soap and water before removing. Launder contaminated clothing/PPE regularly and separately from other laundry.
9. Apply only when the potential for drift to beyond the area to be treated is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment and sprayer settings.
10. **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

3.0 FIRST AID

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If 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.

TOXICOLOGICAL INFORMATION

Treat symptomatically.

4.0 ENVIRONMENTAL PRECAUTIONS

Toxic to non-target terrestrial plants. Observe spray buffer zones specified under Section 17 (Restrictions and Limitations).

To reduce runoff from treated areas into aquatic habitats, avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative filter strip between the treated area and the edge of the water body. Additional guidance can be found on the Runoff Mitigation portion of the Canada.ca website.

5.0 STORAGE

1. Store the product in original, tightly-closed container and do not allow water to be introduced into this container.
2. Store this product away from food or feed.
3. **DO NOT** ship or store the product near food, feed, seed or fertilizers.
4. Store the product in a cool, dry, locked, well-ventilated area without floor drain.
5. Herbicides should be shipped or stored separately from other pesticides to avoid cross contamination.

6.0 DISPOSAL

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.

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For information on disposal of unused, unwanted product, contact the registrant or the provincial or territorial regulatory agency. Contact the registrant and the provincial or territorial regulatory agency in case of a spill, and for cleanup of spills.

7.0 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.

8.0 REGISTERED CROPS

8.1 PRE-SEED OR PRE-EMERGENT

MACH ONE WG HERBICIDE is registered for use prior to the following crops as a pre-seed or pre-emergent application.

☐ Barley
☐ Canary seed
☐ Chickpeas
☐ Faba beans
☐ Lentils*
☐ Oats
☐ Peas (dried field)
☐ Wheat (spring, winter and durum)
☐ Corn
☐ Soybeans*

* Rate restrictions apply. Refer to crop specific section for details.

8.2 CHEMFALLOW

8.3 HARVEST AID

MACH ONE MACH ONE WG HERBICIDE is registered for use as a desiccant in the following crops:

☐ Canola (all types)
☐ Chickpeas
☐ Dry common beans
☐ Faba beans
☐ Flax
☐ Lentils (red lentil varieties only) ¹
☐ Mustard ²
☐ Peas (dried field)
☐ Soybeans
☐ Sunflower

¹ Always tank mix **MACH ONE WG HERBICIDE** with glyphosate when applying as a desiccant to red lentils.

² All classes, including brown, oriental, canola quality *Brassica juncea*, *Brassica juncea* varieties with the **Clearfield trait**, and yellow mustard.

8.4 PRE-HARVEST WEED MANAGEMENT

MACH ONE WG HERBICIDE is registered for use as a pre-harvest treatment to improve dry down of volunteer canola (all types including Roundup Ready), common ragweed, and Canada fleabane in the following crops:

☐	Barley (including feed varieties)
☐	Triticale
☐	Wheat (including durum, spring and winter wheat)

9.0 DIRECTIONS FOR USE

9.1 CROP USE RATES – MACH ONE WG HERBICIDE

For all **MACH ONE WG HERBICIDE** solo applications applied pre-seed, pre-emergent or as a chemfallow treatment, apply with MERGE® Adjuvant at a rate of 0.5 or 1 L/ha.

9.1.1 PRE-SEED OR PRE-EMERGENT

Crop	Use Rate (g/ha)
Lentils ¹	26
Soybean ²	26 – 36
Barley	26 – 71
Canary seed	26 – 71
Chickpea Kabuli	26 – 71
Corn (field, sweet ⁴)	26 – 71
Faba beans	26 – 71
Oats	26 – 71
Peas (dried field)	26 – 71
Wheat (spring, durum, winter)	26 – 71
Chemfallow	26 – 71

¹ Rate restrictions apply. Do not use rates higher than 26 g/ha or injury could result. See crop specific section for additional details.

² Rate restrictions apply. Do not use rates higher than 36 g/ha or injury could result. See crop specific section for additional details. Some soybeans cultivars may be more sensitive to saflufenacil and injury might occur.

³ Some sweet corn hybrids may be more sensitive to saflufenacil and injury might occur.

9.1.2 CHEMFALLOW

Crop	Use Rate (g/ha)	Application Timing
Chemfallow	26 – 71	Post-emergence in fallow croplands and post-harvest.

9.1.3 HARVEST AID

MACH ONE WG HERBICIDE may be used as a harvest aid to accelerate the rate of crop dry down and improve crop uniformity to facilitate direct combining. Early application may result in yield and/or seed quality loss.

The dry down of crops will be best under favorable environmental conditions like warm temperatures, good moisture conditions and low humidity.

Harvesting of crops can be done when plant material is dry and seed moisture level allows efficient harvesting. Under ideal conditions, harvest can normally commence within 7-14 days after desiccation when applied at the appropriate crop stage recommendation. Adverse weather conditions such as rainfall, cool temperatures, shorter day length and high humidity may slow the plant desiccation and keep seed moisture levels high which can delay commencement of harvest after the **MACH ONE WG HERBICIDE** application. Consult your NewAgco Inc. representative for further information on the timing of harvest after a pre-harvest application.

Crop	Use Rate (g/ha)	Application Timing
Canola (all types), chickpeas, dry common beans, faba beans, flax, lentils ² , mustard ¹ , peas (dried field), soybeans, sunflower	52	Harvest aid

¹ All classes, including brown; oriental; canola quality *Brassica juncea*; *Brassica juncea* varieties with the Clearfield trait; and yellow mustard.

² Apply only to red lentil varieties.

Conventionally Piloted Aircraft Application

MACH ONE WG HERBICIDE can be used for aerial application when used as a harvest aid or a pre-harvest weed management (see Section 9.1.4) in the registered crops.

DO NOT apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) Medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

Ensure thorough coverage of foliage. Consult nozzle manufacturer's recommendation for spray pressures for specific nozzles.

Apply only by 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 specified 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 or a Global Positioning System (GPS).

Observe spray buffer zones specified under Section 16 (Restrictions and Limitations)

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

Product Specific Precautions

Read and understand the entire label before opening this product. If you have questions, call the registrant at 1-866-639-2420 or obtain technical advice from the distributor or your provincial or territorial agricultural representative.

HARVEST AID - CROP SPECIFIC RECOMMENDATIONS STAND-ALONE

See Section 9.1.3, above, for further use instructions.

9.1.3.1 DESICCATION - DRY COMMON BEANS / SOYBEANS

Rate	52 g/ha of MACH ONE WG HERBICIDE + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha
Application Timing	Apply when stems are green to brown in colour and pods are mature (yellow – brown) and 80 – 90% of the original leaves have dropped.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.
Remarks	Do not graze or feed treated hay or straw to livestock.

9.1.3.2 DESICCATION - CHICKPEAS

Rate	52 g/ha of MACH ONE WG HERBICIDE + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha .
Application Timing	For Desi type, apply at the time swathing would normally commence, when the majority of plants are yellow and most pods are mature and seeds have turned from green to yellow or brown. Upper part of plant may still be green. For Kabuli type, apply when the majority of plants and pods are ripe and dry with seeds turned from green to white or tan, and detached from the pods. Dry down is less complete in Kabuli type due to its thick pod wall.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.

Remarks	Do not graze or feed treated hay or straw to livestock.
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9.1.3.3 DESICCATION – FIELD PEAS

Rate	52 g/ha of MACH ONE WG HERBICIDE + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	Apply when the majority of pods are brown (70 – 80%).
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.
Remarks	Desiccation treated pea vines may be grazed or fed to livestock.

9.1.3.4 DESICCATION – SUNFLOWER

Rate	52 g/ha of MACH ONE WG HERBICIDE + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	Apply when the backs of the heads and bracts are turning yellow, and seed moisture is 20 – 30%.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.

9.1.3.5 DESICCATION – CANOLA (ALL TYPES) AND MUSTARD¹

Rate	52 g/ha of MACH ONE WG HERBICIDE + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	Apply when 65 – 80% of seeds have changed colour.

Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.
Remarks	It is recommended that the application of MACH ONE WG HERBICIDE as a desiccant in canola and mustard be made to shatter resistant varieties. Under ideal conditions, harvest can normally commence within 14-21 days after desiccation when applied at the appropriate crop stage recommendation. Adverse weather conditions such as rainfall, cool temperatures, shorter day length and high humidity may slow the plant desiccation and keep seed moisture levels high which can delay commencement of harvest after the MACH ONE WG HERBICIDE application.

¹ All classes, including brown; oriental; canola quality *Brassica juncea*; *Brassica juncea* varieties with the **Clearfield** trait; and yellow mustard.

9.1.3.6 DESICCATION – FLAX

Rate	52 g/ha of MACH ONE WG HERBICIDE + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	Apply when 75% of bolls have turned colour.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.

9.1.3.7 DESICCATION – FABA BEANS

Rate	52 g/ha of MACH ONE WG HERBICIDE + adjuvant
Water Volume	200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	Apply when 80% of lower pods have turned black, middle pods have turned yellow/tan, and top green pods have firm seed.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.
Remarks	Do not graze or feed treated hay or straw to livestock.

9.1.4 PRE-HARVEST WEED MANAGEMENT

MACH ONE WG HERBICIDE may be used as a pre-harvest treatment in wheat (including durum, spring, and winter wheat), barley (including feed varieties) and triticale to improve dry down of volunteer canola (all types including Roundup Ready), common ragweed, and Canada fleabane and to facilitate direct combining.

Early application may result in yield loss. **MACH ONE WG HERBICIDE** when used alone as a pre-harvest treatment will not affect the seed germination if applied according to label recommendations.

WHEAT, BARLEY AND TRITICALE

Rate	36 – 52 g/ha of MACH ONE WG HERBICIDE + adjuvant
Water Volume	100 – 200 L/ha ground; 50 L/ha aerial
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	Hard dough stage; a thumbnail impression remains on seed; less than 30% moisture.
Weeds Controlled	Improved dry down of volunteer canola (all types including Roundup Ready), common ragweed, and Canada fleabane .
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Directions for Use – Aerial	For aerial application use a minimum water volume of 50 L/ha. Please see above for aerial application use and operator precautions.
Remarks	Treated barley, wheat and triticale straw may be grazed or fed to livestock. Use higher water volume for dense crop stands and higher weed pressure.

9.2 WEEDS CONTROLLED

MACH ONE WG HERBICIDE can be applied pre-seed or pre-emergence to the crop to control weeds listed below.

MACH ONE WG HERBICIDE should always be applied in combination with glyphosate for broad spectrum weed control including grassy weeds.

Weeds Controlled For Rapid Burn down (Pre-seed or Pre-emergent)

Use Rate: 26 g/ha

Weed	Maximum Weed Stage
Kochia	15 cm
Canada fleabane	8 leaf
Cleavers	4-whorl stage
Lamb's-quarters	8 leaf

Narrow-leaved hawk's beard	8 cm
Redroot pigweed	8 leaf
Round-leaved mallow	8 leaf
Stinkweed	8 leaf
Volunteer canola (all types including Roundup Ready®)	8 leaf
Wild buckwheat	8 leaf
Wild mustard	8 leaf

Use Rate: 36 g/ha

MACH ONE WG HERBICIDE applied pre-seed or pre-emergence at 36 g/ha will provide rapid burndown control of the following weeds in addition to those listed above:

Weed	Maximum Weed Stage
Common ragweed	8 leaf
Giant ragweed	8 leaf
Lady's-thumb	6 leaf
Perennial sow-thistle (top growth burndown control)	8 leaf
Prickly lettuce (top growth only)	9 leaf
Shepherd's-purse	Full flower

For Rapid Burndown and Suppression of Secondary Weed Flushes (Pre-seed or Pre-emergent)

Use Rate: 52 - 71 g/ha

Weed	Maximum Weed Stage
Redroot pigweed	8 leaf
Stinkweed	8 leaf
Volunteer canola (all types including Roundup Ready)	8 leaf
Wild buckwheat	8 leaf
Wild mustard	8 leaf

9.3 TANK MIXES – PRE-SEED, PRE-EMERGENT AND CHEMFALLOW

This product may be tank mixed with a fertilizer, a supplement, or with registered pest control products, whose labels also allow tank mixing, provided the entirety of both labels, including Directions For Use, Precautions, Restrictions, Environmental Precautions, and Spray Buffer Zones are followed for each product. In cases where these requirements differ between the tank mix partner labels, the most restrictive label must be followed. Do not tank mix products containing the same active ingredient unless specifically listed on this label.

In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact NewAgco Inc. at 1-866-639-2420 for information before applying any tank mix that is not specifically recommended on this label.

9.3.1 MACH ONE WG HERBICIDE + GLYPHOSATE

For broad spectrum weed control, **MACH ONE WG HERBICIDE** should always be tank mixed with glyphosate present as isopropylamine salt, di-ammonium salt or potassium salt. **MACH ONE WG HERBICIDE** is compatible with all liquid glyphosate formulations, in which glyphosate is present as isopropylamine salt, di-ammonium salt or potassium salt, as a tank-mix partner.

Tank mixing **MACH ONE WG HERBICIDE** with glyphosate will provide control of all weeds controlled by glyphosate in addition to the broadleaf weeds listed on **MACH ONE WG HERBICIDE** label. Consult the glyphosate label for a complete list of weeds controlled by glyphosate.

Tank mixing is a recognized strategy to delay herbicide resistance as well as improve the weed spectrum controlled. See Section 17.

TANK MIX CROP USE RATES

Crop	MACH ONE WG HERBICIDE Use Rate (g/ha)
Lentils ¹	26
Soybean ²	26-36
Barley	26-71
Canary seed	26-71
Chickpea Kabuli	26-71
Corn (field, sweet ³)	26-71
Faba beans	26-71
Oats	26-71
Peas (dried field)	26-71
Wheat (spring, durum, winter)	26-71
Chemfallow	26-71

¹ Rate restrictions apply. Do not use rates higher than 26 g/ha or injury could result. See crop specific section for additional details.

² Rate restrictions apply. Do not use rates higher than 36 g/ha or injury could result. See crop specific section for additional details. Some soybeans cultivars may be more sensitive to saflufenacil and injury might occur.

³ Some sweet corn hybrids may be more sensitive to saflufenacil and injury might occur.

For tank mix applications of **MACH ONE WG HERBICIDE** with glyphosate, apply with MERGE Adjuvant at a rate of 0.5 or 1 L/ha.

Always refer to the tank mix partner herbicide label for precautions, use instructions and crop rotation restrictions. Do not apply tank mix combinations by air.

TANK MIX WEEDS CONTROLLED

Rapid Burn Down (Pre-seed or Pre-emergent)

MACH ONE WG HERBICIDE when tank mixed with glyphosate will provide rapid burn down of the following weeds in addition to weeds listed for treatment of **MACH ONE WG HERBICIDE**.

Use Rate: 26 g/ha

Weed	Maximum Weed Stage
Dandelion (top growth burndown control only)	15 cm
Flixweed	8 leaf

9.4 CROP SPECIFIC RECOMMENDATIONS

9.4.1 CHICKPEAS, FABA BEANS AND PEAS (dried field)

Timing	Pre-seed or Pre-emergent
Rate	26 – 71 g/ha of MACH ONE WG HERBICIDE + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	50 – 100 L/ha
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Weeds Controlled	See Section 9.2 for a complete list of weeds controlled by MACH ONE WG HERBICIDE . Refer to the glyphosate label for weeds controlled in addition to those controlled by MACH ONE WG HERBICIDE .

9.4.2 CEREALS – BARLEY, CANARY SEED, OATS AND WHEAT (spring, durum, winter)

Timing	Pre-seed or Pre-emergent
Rate	26 – 71 g/ha of MACH ONE WG HERBICIDE + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	50 – 100 L/ha
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Weeds Controlled	See Section 9.2 for a complete list of weeds controlled by MACH ONE WG HERBICIDE . Refer to the glyphosate label for weeds controlled in addition to those controlled by MACH ONE WG HERBICIDE .

9.4.3 SOYBEANS

Timing	Pre-seed or Pre-emergent
Rate	26 – 36 g/ha of MACH ONE WG HERBICIDE + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant

Water Volume	50 – 100 L/ha
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Weeds Controlled	See Section 9.2 for a complete list of weeds controlled by MACH ONE WG HERBICIDE . Refer to the glyphosate label for weeds controlled in addition to those controlled by MACH ONE WG HERBICIDE .
Remarks	Some soybean cultivars may be more sensitive to saflufenacil and injury might occur. When applying 36 g/ha pre-emergent to soybeans, DO NOT apply to coarse textured soils with less than 2% organic matter. When applying pre-emergent to soybeans, apply prior to when the soybeans cause the ground to crack and no more than 3 days after planting.

9.4.4 LENTILS (including Clearfield Lentils)

Timing	Pre-seed or Pre-emergent
Rate	26 g/ha of MACH ONE WG HERBICIDE + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	50 – 100 L/ha
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Weeds Controlled	See Section 9.2 for a complete list of weeds controlled by MACH ONE WG HERBICIDE . Refer to the glyphosate label for weeds controlled in addition to those controlled by MACH ONE WG HERBICIDE .
Remarks	Rainfall shortly after product application can result in slight injury to the crop. Lentils will be more susceptible to injury on coarse texture and low organic matter soils. Injury will usually appear as leaf tissue necrosis on the outer edges of the leaves. Lentils will grow out of injury symptoms, and yield will not be impacted at recommended rates. The user should contact NewAgco Inc. before applying any other soil applied herbicide with, before, or after applications of MACH ONE WG HERBICIDE + glyphosate. The addition of other soil applied herbicides may increase the sensitivity of lentils to MACH ONE WG HERBICIDE and injury may result.

9.4.5 CORN (field, sweet)

Timing	Pre-seed or Pre-emergent
Rate	26 – 71 g/ha of MACH ONE WG HERBICIDE + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	50 – 100 L/ha
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.

Weeds Controlled	See Section 9.2 for a complete list of weeds controlled by MACH ONE WG HERBICIDE . Refer to the glyphosate label for weeds controlled in addition to those controlled by MACH ONE WG HERBICIDE .
Remarks	Some sweet corn hybrids may be more sensitive to saflufenacil and injury might occur.

9.5 CHEMFALLOW

Timing	Chemfallow
Rate	26 – 71 g/ha of MACH ONE WG HERBICIDE + 1.25 – 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	50 – 100 L/ha
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Weeds Controlled	See Section 9.2 for a complete list of weeds controlled by MACH ONE WG HERBICIDE . Refer to the glyphosate label for weeds controlled in addition to those controlled by MACH ONE WG HERBICIDE .
Remarks	Apply to actively growing weeds less than 15 cm in height. Better coverage of the product results in enhanced control of weeds. For application to larger weeds or dense weed infestations, use minimum water volume of 100 L per hectare.

10.0 HARVEST AID – CROP SPECIFIC RECOMMENDATIONS TANK-MIX

MACH ONE WG HERBICIDE may be used as a harvest aid to accelerate the rate of crop dry down and improve crop uniformity to facilitate direct combining. Early application may result in yield and/or seed quality loss.

The dry down of crops will be best under favorable environmental conditions like warm temperatures, good moisture conditions and low humidity.

Harvesting of crops can be done when plant material is dry and seed moisture level allows efficient harvesting. Under ideal conditions, harvest can normally commence within 7-14 days after desiccation when applied at the appropriate crop stage recommendation. Adverse weather conditions such as rainfall, cool temperatures, shorter day length and high humidity may slow the plant desiccation and keep seed moisture levels high which can delay commencement of harvest after the **MACH ONE WG HERBICIDE** application. Consult your NewAgco Inc. representative for further information on the timing of harvest after a pre-harvest application.

MACH ONE WG HERBICIDE may be applied in tank mix with glyphosate for additional pre-harvest weed control.

10.1 DESICCATION – DRY COMMON BEANS*/ SOYBEANS

Timing	Desiccation of DRY COMMON BEANS* / SOYBEANS
Rate	52 g/ha of MACH ONE WG HERBICIDE + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant

Water Volume	200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Remarks	*Consult glyphosate label or NewAgco Inc. representative for information on the use on specific varieties of dry common beans.
Application Timing	Apply when stems are green to brown in colour and pods are mature (yellow – brown) and 80 – 90% of the original leaves have dropped.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Remarks	Do not graze or feed treated hay or straw to livestock. See Section 10.0 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes.

10.2 DESICCATION – CHICKPEAS

Timing	Desiccation of CHICKPEAS
Rate	52 g/ha of MACH ONE WG HERBICIDE + 900 g a.e/ha glyphosate (1.67 L/ha of 540 g/L glyphosate formulation) + adjuvant
Water Volume	200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	For Desi type, apply at the time swathing would normally commence, when the majority of plants are yellow and most pods are mature and seeds have turned from green to yellow or brown. Upper part of plant may still be green. For Kabuli type, apply when the majority of plants and pods are ripe and dry with seeds turned from green to white or tan, and detached from the pods. Dry down is less complete in Kabuli type due to its thick pod wall.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Remarks	Do not graze or feed treated hay or straw to livestock. See Section 10.0 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes.

10.3 DESICCATION – RED LENTIL VARIETIES

Timing	Desiccation of RED LENTIL VARIETIES
Rate	52 g/ha of MACH ONE WG HERBICIDE + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	200 L/ha ground

Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	Apply when lowermost pods (bottom 15%) are brown and rattle when shaken.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Remarks	Apply only to red lentil varieties. Do not graze or feed treated hay or straw to livestock. See Section 10.0 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes.

10.4 DESICCATION – FIELD PEAS

Timing	Desiccation of FIELD PEAS
Rate	52 g/ha of MACH ONE WG HERBICIDE + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	Apply when the majority of pods are brown (70-80%).
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Remarks	See Section 10.0 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes.

10.5 DESICCATION – CANOLA (ALL TYPES) AND MUSTARD¹

Timing	Desiccation of CANOLA and MUSTARD
Rate	52 g/ha of MACH ONE WG HERBICIDE + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	Apply when 60 – 75% of seeds have changed colour.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.

Remarks	It is recommended that the application of MACH ONE WG HERBICIDE as a desiccant in canola and mustard be made to shatter resistant varieties. See Section 10.0 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes. Under ideal conditions, harvest can normally commence within 14-21 days after desiccation when applied at the appropriate crop stage recommendation. Adverse weather conditions such as rainfall, cool temperatures, shorter day length and high humidity may slow the plant desiccation and keep seed moisture levels high which can delay commencement of harvest after the MACH ONE WG HERBICIDE application.
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¹ All classes, including brown, oriental, canola quality *Brassica juncea*, *Brassica juncea* varieties with the Clearfield trait, and yellow mustard.

10.6 DESICCATION – FLAX

Timing	Desiccation of FLAX
Rate	52 g/ha of MACH ONE WG HERBICIDE + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	Apply when 75% of bolls have turned colour.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Remarks	See Section 10.0 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes.

10.7 DESICCATION – FABA BEANS

Timing	Desiccation of Faba Beans
Rate	52 g/ha of MACH ONE WG HERBICIDE + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	Apply when 80% of lower pods have turned black, middle pods have turned yellow/tan, and top green pods have firm seed.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.

Remarks	Do not graze or feed treated hay or straw to livestock. See Section 10.0 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes.
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11.0 PRE-HARVEST WEED MANAGEMENT – TANK MIX CROP SPECIFIC RECOMMENDATIONS

MACH ONE WG HERBICIDE may be used as a pre-harvest treatment in wheat (including durum, spring and winter wheat), barley (including feed varieties) and triticale to improve dry down of volunteer canola (all types including Roundup Ready), common ragweed, and Canada fleabane. Tank mixing **MACH ONE WG HERBICIDE** with glyphosate will provide additional pre-harvest weed management to the crop dry down provided by glyphosate.

The tank mix with glyphosate may affect the seed germination. Tank mixing with glyphosate is not recommended when harvested grain is to be used for seed.

WHEAT AND BARLEY

Rate	36 – 52 g/ha of MACH ONE WG HERBICIDE + 2.5 L/ha of glyphosate (360 g/L equivalent) + adjuvant
Water Volume	200 L/ha ground
Surfactant/Adjuvant	Add MERGE Adjuvant at a rate of 0.5 or 1 L/ha.
Application Timing	Hard dough stage; a thumbnail impression remains on seed; less than 30% moisture.
Weeds Controlled	Improved dry down of volunteer canola (all types including Roundup Ready), common ragweed, and Canada fleabane. Consult the glyphosate label regarding additional pre-harvest weed control.
Directions for Use – Ground	Ground application may be done with a standard boom sprayer.
Remarks	See Section 10.0 for detailed use pattern. Consult the label of the tank mix partner product for further use instructions, precautions and restrictions. The most restrictive labeling applies to tank mixes. Use higher water volume for dense crop stands and higher weed pressure. Tank mixing with glyphosate is not recommended when harvested grain is to be used for seed.

12.0 MIXING INSTRUCTIONS

1. When using **MACH ONE WG HERBICIDE**, always start with a clean sprayer. Thoroughly clean the sprayer by flushing the system with water containing detergent. Refer to previously applied product labels for specific cleaning instructions.
2. Fill clean spray tank half full with clean water. Start agitation system.

3. Using a calibrated measuring device, add the correct amount of **MACH ONE WG HERBICIDE**. Continue to agitate.
4. **For tank mix with glyphosate**, add **MACH ONE WG HERBICIDE** followed by recommended amount of glyphosate.
5. If recommended, add the correct amount of MERGE Adjuvant to the tank last.
6. Continue agitation while filling the remainder of the tank with water necessary to fill the spray tank.
7. Continue to agitate or run the by-pass system.
8. After any break in spraying operation, agitate thoroughly before spraying again. Check inside the tank to ensure that sprayer agitation is sufficient to remix the spray materials. Do not allow the mixture to sit overnight.
9. If an oil film starts to build up in the tank, drain it and clean the tank with strong detergent solution.
10. Immediately after use, thoroughly clean the sprayer by flushing the system with clean water containing detergent.

Dispose of all rinsings in accordance with provincial or territorial regulations.

13.0 PRE-HARVEST INTERVAL (PHI)

The following pre-harvest intervals should be observed for respective crops.

Crop	Pre-Harvest Interval (PHI) in days
Barley	60
Canary seed	60
Chickpea	60
Corn (field, sweet)	60
Faba beans	60
Lentils	60
Oats	60
Peas (dried field)	60
Soybean	60
Wheat (spring, winter, durum)	60

14.0 PRE-HARVEST INTERVAL (PHI) – HARVEST AID

The following pre-harvest intervals should be observed for respective crops when **MACH ONE WG HERBICIDE** is used as a harvest aid.

Crop	Pre-Harvest Interval (PHI) in days
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☐ Barley	3
☐ Canola	3
☐ Chickpeas	2
☐ Dry common beans	2
☐ Faba beans	2
☐ Flax	3
☐ Lentils	3
☐ Mustard	3
☐ Peas (dried field)	3
☐ Soybeans	3
☐ Sunflower	7
☐ Triticale	3
☐ Wheat	3

15.0 FOLLOW CROPPING

The crops listed can be safely grown after a spring application of **MACH ONE WG HERBICIDE**.

Plant Back Crops In case of crop failure, the following crops can be planted in the same season ¹	Rotational Crops The following crops can be planted anytime in the following season
Barley Canary seed Chickpeas Corn (field and sweet) Lentils* Oats Dry field peas Soybean* Wheat (spring, winter & durum)	Barley (spring, winter, malting) Canary seed Canola Chickpeas Corn (field and sweet) Dry common beans Flax Lentils Mustard Oats Dry field peas Soybean Triticale Wheat (spring, winter & durum)
* Rate restrictions apply. Lentils and soybeans can only be grown as plant back crops provided that a maximum product use rate of 26 and 36 g/ha, respectively, was used in the previous crop.	

¹ A second application of **MACH ONE WG HERBICIDE** cannot be made in the rescue crop.

The crops listed below can be safely grown after a fall application of **MACH ONE WG HERBICIDE**.

Rotational crops that can be planted in the following spring after application	Rotational crops that can be planted in the second spring after application
Barley Canary seed Canola Chickpeas Corn (field and sweet) Flax Lentils Oats Dry field peas Soybeans Wheat (spring, winter, and durum)	All crops

16.0 SPRAYING INSTRUCTIONS

Water volume and spray pressure Conventional ground application

Use sprayers equipped with standard flat nozzles. The use of 80°-110° stainless steel flat fan nozzle is recommended for optimum spray coverage with nozzles tilted 45° forward to ensure better coverage.

Thoroughly clean all screens to prevent nozzle clogging. Apply in a water volume of 50-100 L/ha and at a pressure of 240 kPa. For applications to dense weed infestations and thick canopies, use a higher water volume at pressures of 275 kPa.

Better coverage of the product results in enhanced control of weeds.

17.0 RESTRICTIONS AND LIMITATIONS

1. Wash sprayer thoroughly after use to avoid damage to the next crop sprayed.
2. **DO NOT** apply by air, unless otherwise specified in the crop-specific use directions.
3. **DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.
4. Field corn – Corn forage and silage can be harvested, used as feed or grazed 60 or more days after application of **MACH ONE WG HERBICIDE**.
5. Legume forage (chickpeas, faba beans, field peas and lentils) may be used as feed or grazed 60 or more days after application of **MACH ONE WG HERBICIDE**. Desiccation treated pea vines may be grazed or fed to livestock.
6. Small grains (wheat, barley and oats) – forage and hay can be used as feed or grazed 30 or more days after application of **MACH ONE WG HERBICIDE**. Pre-harvest treated barley, wheat and triticale straw may be grazed or fed to livestock.
7. Soybeans may be used as feed or grazed 60 or more days after application of **MACH ONE WG HERBICIDE**.
8. Soybeans, chickpeas and dry common beans – Do not graze or feed treated hay or straw to livestock when **MACH ONE WG HERBICIDE** is used as a harvest aid.
9. DO NOT apply to any body of water. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

10. 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.
11. As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.
12. In some cases, tank mixing pest control products can result in reduced pesticide efficacy or increased host crop injury. The user should contact NewAgco Inc. for information before applying any tank mix that is not specifically recommended on this label.

Field sprayer application: **DO NOT** apply when wind speed is less than 1 km/h. . Avoid application of this product when winds are gusty. **DO NOT** apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) Medium classification. Boom height must be 60 cm or less above the crop or ground.

Conventionally piloted aircraft application: **DO NOT** apply when wind speed is less than 1 km/h. Avoid application of this product when winds are gusty. **DO NOT** apply when wind speed is greater than 16 km/h at flying height at the site of application. **DO NOT** apply with sprays finer than the American Society of Agricultural and Biological Engineers (ASABE) S572 (572.1 to 572.3) Medium classification. Reduce drift caused by turbulent wingtip vortices. Nozzle distribution along the spray boom length **MUST NOT** exceed 65% of the wing- or rotorspan.

Spray Buffer zones

A spray buffer zone is NOT required for:

- uses with hand-held or backpack sprayer and spot treatment application permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop or foliage.

The spray buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop/Site	Spray Buffer Zones (metres) Required for the Protection of:				
		Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial Habitat
		Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
Field sprayer	Lentils (pre-seed or pre-emergent)	0	0	N/A	N/A	3
	Soybean (pre-seed or pre-emergent)	0	0	N/A	N/A	4

Method of Application	Crop/Site		Spray Buffer Zones (metres) Required for the Protection of:				
			Freshwater Habitat of Depths:		Estuarine/Marine Habitat of Depths:		Terrestrial Habitat
			Less than 1 m	Greater than 1 m	Less than 1 m	Greater than 1 m	
	Barley, canary seed, chickpea, corn, faba beans, oats, dried field peas, wheat (pre-seed or pre-emergent); Chemfallow; Canola, faba beans, flax, lentil, chickpea, mustard, soybean, dried field peas, sunflower, dry common beans, wheat, barley, triticale (harvest aid)		0	0	N/A	N/A	10
Aerial	Canola, faba beans, flax, lentil, chickpea, mustard, soybean, dried field peas, sunflower, dry common bean, wheat, barley, triticale (harvest aid)	Fixed wing	0	0	N/A	N/A	175
		Rotary wing	0	0	N/A	N/A	150

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

The spray buffer zones for this product for conventional application equipment can be modified based on weather conditions and spray equipment configuration by accessing the Spray Buffer Zone Calculator on the Drift Mitigation portion of the Canada.ca website.

18.0 RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, **MACH ONE WG HERBICIDE** is a Group 14 herbicide. Any weed population may contain or develop plants naturally resistant to **MACH ONE WG HERBICIDE** and other Group 14 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 **MACH ONE WG HERBICIDE** or other Group 14 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 NewAgco Inc. at 1-866-639-2420 or at www.newagco.com.

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