

GROUP 16 HERBICIDE

NET CONTENTS:
10 LITRES

**HOE-GRASS® II
EMULSIFIABLE LIQUID HERBICIDE**

FOR USE IN WHEAT, TRITICALE, SPRING RYE, MOST BARLEYS, FLAX (excluding low
linolenic acid varieties), AND OTHER CROPS

**FOR SALE FOR USE IN THE PRAIRIE PROVINCES
AND BRITISH COLUMBIA ONLY**

COMMERCIAL



GUARANTEE:

Diclofop-methyl: 230 grams per litre
Bromoxynil present as the ester of N-octanoic acid: 80 grams per litre

REGISTRATION NO.: 17507
PEST CONTROL PRODUCTS ACT

Bayer CropScience Inc.
Suite 100, 3131 114th Avenue S.E.
Calgary, Alberta T2Z 3X2
Telephone: 1-(888) 283-6847

READ THE LABEL AND ATTACHED LEAFLET BEFORE USING

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. THIS PRODUCT IS A SENSITIZER AND CAUSES EYE DAMAGE. WEAR CHEMICAL RESISTANT GLOVES AND PROTECTIVE EYE EQUIPMENT WHEN HANDLING THIS PRODUCT. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. AVOID BREATHING SPRAY MIST.

Avoid spray drift to susceptible plants and **USE ONLY FOR RECOMMENDED PURPOSES AND AT RECOMMENDED RATES. TOXIC TO FISH.** Do not contaminate water supply, ponds, lakes, streams and irrigation ditches. Wear chemical resistant nitrile gloves, e.g., Edmont Sol-Vex #37-155/#37-145, Pioneer A-15 or Marigold 315F. Gloves should be worn when mixing/loading, spraying, and during cleanup and repair. This product contains a petroleum distillate which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-866-375-4648 or www.cropro.org/.

FIRST AID:

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

IF SWALLOWED, do NOT induce vomiting but rush patient to nearest hospital taking this label with you, or contact a poison control centre IMMEDIATELY.

IN CASE OF SKIN CONTACT, remove contaminated clothing and wash skin thoroughly with soap and water.

IF IN EYES, flush with plenty of water for 15 minutes and take patient to hospital at once taking these Directions For Use or labelled container with you or contact a poison control centre IMMEDIATELY.

IF INHALED, remove patient from the site of exposure and contact a physician or contact a poison control centre IMMEDIATELY.

TOXICOLOGICAL INFORMATION:

Medical Personnel should contact Bayer's Medical Information Services: 1-800-334-7577. This product contains **PETROLEUM DISTILLATES**.

MIXING INSTRUCTIONS:

1. Ensure that spray tank is thoroughly clean.
2. Fill tank half full with clean water and start agitation or by-pass system.
3. Remove straining screen from filler opening of spray tank.
4. If a tank mix is to be used refer to the section on **TANK MIXTURES WITH HOE-GRASS II** herbicide.
5. Add the correct amount of **HOE-GRASS II** herbicide and continue agitation. Replace straining screen.
6. Add the remaining amount of water and continue agitation.
7. Spray out immediately. Spray mixture should not be left in tank overnight.

8. When mixing second and subsequent tankfuls, ensure that the tank is half-full of clean water prior to adding herbicide.
9. Immediately after use, thoroughly clean the sprayer by flushing with a water/detergent mixture.

STORAGE:

CANNOT be stored below freezing. Keep away from fire, open flame, or other sources of heat. If stored for one year or longer, shake vigorously before using. Store the tightly closed container away from feeds, seeds, fertilizer, plants and foodstuffs. Keep in original container during storage.

RECYCLABLE CONTAINER DISPOSAL:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

DISPOSAL OF UNUSED, UNWANTED PRODUCT:

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 cleanup of spills.

DISPOSAL OF UNUSED SPRAY SOLUTION:

If any spray solution remains in the tank after spraying is finished, it should be sprayed on the perimeter of the area just sprayed, not on the crop, away from water supplies, ditches, and irrigation canals.

NOTICE TO USER:

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Hoegrass is a registered trademark of Bayer.

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TOXICOLOGICAL INFORMATION:

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DIRECTIONS FOR USE

PRAIRIE PROVINCES and BRITISH COLUMBIA

GENERAL INFORMATION

HOE-GRASS II herbicide is a specially formulated herbicide for the control of certain annual grasses and broadleaf weeds in Spring and Durum Wheat, Triticale, Spring Rye, Barley (except Klages and Betzes varieties in Alberta and British Columbia), Flax (excluding low linolenic acid varieties), and Seedling Forage Grasses grown for Seed only, (Brome grass, Creeping Red Fescue, Russian Wild Ryegrass, Crested Wheatgrass, Intermediate Wheatgrass).

HOE-GRASS II HERBICIDE MUST NOT BE USED ON ANY CROP FOR WHICH IT IS NOT REGISTERED.

SUSCEPTIBLE WEEDS: Annual Grasses: Wild Oats, Green and Yellow Foxtail (Wild Millet, Pigeon Grass), Persian Darnel, Barnyard Grass and Volunteer Corn.

ANNUAL BROADLEAF WEEDS: Common Groundsel, Cow Cockle, Green Smartweed, Knawel, Kochia, Lady's-thumb, Lamb's-quarters, Night-flowering Catchfly, Redroot Pigweed, Russian Thistle, Scentless Chamomile, Stinkweed, Tartary Buckwheat, Wild Buckwheat, Wild Mustard.

TIME OF APPLICATION

Apply **HOE-GRASS II** herbicide when the grassy weeds are in the 1-4 leaf stage (1 to 3 leaf for Persian Darnel), when Volunteer Corn is 15-25 cm in height; prior to the 4 leaf stage for Cow Cockle, Wild Mustard and Scentless Chamomile and from seedling to 5 cm in height for Russian Thistle. For best results and greater yield enhancement apply **HOE-GRASS II** herbicide when the majority of the grassy weeds are in the 2-3 leaf stage and the majority of the broadleaf weeds are in the 2-4 leaf stage. **TREATMENT MUST TAKE PLACE BEFORE THE GRASSY WEEDS TILLER (STOOL)** and when the majority of the broadleaf weeds are in the seedling to early 4 leaf stage. Application to Seedling Forage Grasses grown for Seed only (Bromegrass, Creeping Red Fescue, Russian Wild Ryegrass, Crested Wheatgrass, Intermediate Wheatgrass) should be in the 2 to 5 leaf stage of the Seedling Forage Grasses.

ANNUAL GRASSES

TIME OF APPLICATION

Wild Oats)	
Green & Yellow Foxtail (Wild Millet, Pigeon Grass))	1 - 4 leaf
Barnyard Grass)	
Persian Darnel		1-3 Leaf
Volunteer Corn		15-25 cm in height

BROADLEAF WEEDS

TIME OF APPLICATION

Wild Buckwheat)	
Tartary Buckwheat)	
Lady's-thumb)	
Green Smartweed)	
Kochia)	
Common Groundsel)	
Knawel)	
Night-flowering Catchfly)	Seedling to Early 4 Leaf Stage
Cow Cockle)	
Wild Mustard)	
Scentless Chamomile)	
Stinkweed)	
Lamb's-quarters)	
Red Root Pigweed)	
Russian Thistle	Seedling to 5 cm in height	

[GRASSY WEED LEAF STAGES - DIAGRAM PICTURE]

[BROADLEAF WEED LEAF STAGES - DIAGRAM PICTURE]

*The above schematic drawings are specific for Wild Mustard only. Other broadleaf weeds will develop differently. Consult with your local weed control specialists for further information.

METHOD OF APPLICATION:

Prior to using **HOE-GRASS II** herbicide complete a thorough cleaning of the spray tank, lines and filter. This can be particularly important when the previously sprayed product may cause injury to the crop you intend to spray. Spray equipment should be triple rinsed using a strong detergent solution. A scrubbing of the tank is also highly recommended. Application should be made in 110 litres of water per hectare at a pressure of 275 kPa and a ground speed of 6 to 8 km per hour. The use of 80 degree or 110 degree stainless steel flat fan nozzles is recommended for optimum spray coverage.

- **DO NOT USE FLOOD JET NOZZLES, CONTROLLED DROPLET APPLICATION EQUIPMENT or SPRAFOIL® EQUIPMENT.**
- **DO NOT APPLY HOE-GRASS II HERBICIDE BY AIRCRAFT.**
- **UNIFORM, THOROUGH COVERAGE IS IMPORTANT TO OBTAIN GOOD CONTROL.** Application of the spray at a 45 degree angle forward will also result in better coverage. Application time and rate are shown on this label. Apply when weeds are young and actively growing.

- **DO NOT APPLY IF RAIN IS EXPECTED WITHIN ONE HOUR AFTER APPLICATION.**
- **DO NOT APPLY HOE-GRASS II WITHIN 60 DAYS OF HARVEST.**

RATE OF APPLICATION:

Wheat (Spring and Durum), Triticale, Spring Rye, Barley (except Klages and Betzes varieties in Alberta and British Columbia), Flax (excluding low linolenic acid varieties), Seedling Forage Grasses grown for Seed only (Bromegrass, Creeping Red Fescue, Russian Wild Ryegrass, Crested Wheatgrass, Intermediate Wheatgrass). One jug (10 litres) treats 2.85 hectares (3.5 litres/ha). **DO NOT TANK MIX HOE-GRASS II herbicide with any other pesticide, (except MCPA 500 or DECIS 5.0 EC insecticide), fertiliser or chemical additive as a reduction in weed control will result.**

TANK MIXTURES WITH HOE-GRASS II

HOE-GRASS II plus MCPA 500

WHEAT, TRITICALE, SPRING RYE, BARLEY (EXCEPT KLAGES AND BETZES VARIETIES IN ALBERTA AND BRITISH COLUMBIA): For the control of **VOLUNTEER RAPESEED** in the seedling to early 4 leaf stage and **WILD MUSTARD** in the seedling to early 5 leaf stage. Mix **HOE-GRASS II HERBICIDE at 3.5 LITRES PER HECTARE** with MCPA 500 at **70 MILLILITRES PER HECTARE**.

CAUTION:

Do not exceed, under any circumstances, the recommended amount of MCPA 500 as a severe reduction in grassy weed control will result.

CAUTION:

Under certain environmental conditions (for example, periods of prolonged drought, excessive daytime temperatures and/or low humidity), plants are not actively growing. Application of the tank mixture should be avoided as a reduction in grassy weed control will result.

HOE-GRASS II HERBICIDE plus DECIS 5.0 EC INSECTICIDE

WHEAT, BARLEY (EXCEPT KLAGES AND BETZES VARIETIES IN ALBERTA AND BRITISH COLUMBIA), FLAX (EXCLUDING LOW LINOLENIC ACID VARIETIES): For the control of annual grassy weeds, broadleaf weeds (see list of susceptible weeds elsewhere on this label), and insect pests (specified on DECIS 5.0 EC insecticide label), mix **HOE-GRASS II herbicide at 3.5 litres per hectare with DECIS 5.0 EC insecticide at the rate recommended on the DECIS 5.0 EC insecticide label.**

For more specific details regarding the required rate of DECIS 5.0 EC insecticide to be used in a **HOE-GRASS II herbicide tank mix** for various insect pests, consult the DECIS 5.0 EC insecticide label.

CAUTION:

If grassy and broadleaf weeds are in the correct stage for HOE-GRASS II herbicide before insects are present **DO NOT DELAY HOE-GRASS II HERBICIDE APPLICATION.**

BARLEY: HOE-GRASS II herbicide must be applied in the 1 to 4 leaf stage of the Barley and prior to tillering or stooling. Application beyond the 4 leaf stage, or after tillering will result in crop damage. Under certain environmental conditions, yellow blotches may appear on barley leaves. These blotches will be rapidly outgrown and will not affect maturity or yield.

DO NOT APPLY TO KLAGES OR BETZES BARLEY VARIETIES IN ALBERTA AND BRITISH COLUMBIA.

FLAX (excluding low linolenic acid varieties): HOE-GRASS II herbicide must be applied when the Flax is 5-10 cm in height. During periods of stress [for example, very hot (28 °C)] or high humidity, Flax may show leaf burn, retarded growth and a slight maturity delay. Avoid spraying Flax under these conditions. Early evening spraying has been shown to be best.

CAUTION:

Do not treat Wheat, Barley, Spring Rye, Triticale or Flax underseeded to forage legumes.

CAUTION:

During periods of stress, plants are not actively growing. When daytime temperatures are very hot (28 °C) and/or conditions are very dry and/or there is low humidity, plants are under stress. Application of **HOE GRASS II** herbicide during these periods may result in substantially reduced control. Under these conditions yellow blotches may appear on crop leaves. These blotches will be rapidly outgrown and will not affect maturity or yield.

CAUTION:

UNIFORM, THOROUGH COVERAGE IS IMPORTANT TO OBTAIN GOOD CONTROL. If weed populations are extremely high, it may be difficult to obtain good coverage as spray penetration may be inhibited. Apply the spray at a forward angle of 45 degrees, and ensure that weeds are young and actively growing.

CAUTION:

Application of **HOE-GRASS II** herbicide must take place before tillering (stooling) of the grassy weeds and when the broadleaf weeds are in the seedling to early 4 leaf stage. Late application will result in poor weed control.

CAUTION:

If an application of **HOE-GRASS II** herbicide is not possible for reasons of uneven weed seedling germination, consult your local weed specialist or the provincial weed recommendation for the best method of weed control.

CAUTION:

Good spray coverage is essential for optimum weed control, especially in areas of heavy weed populations.

CAUTION:

Do not graze the treated crops or cut for hay; sufficient data are not available to support such use.

RESISTANCE MANAGEMENT RECOMMENDATIONS: For resistance management, **HOEGRASS II** is a Group 1 and 6 herbicide. Any weed population may contain or develop plants naturally resistant to **HOEGRASS II** and other Group 1 and 6 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 **HOEGRASS II** or other Group 1 and 6 herbicides 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.
- Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.
- Monitor treated weed populations for resistance development.
- Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.
- 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 your local Aventis representative, or call Bayer CropScience Inc. toll-free at 1-888-283-6847.

MIXING INSTRUCTIONS:

1. Ensure that spray tank is thoroughly clean.
2. Fill tank half full with clean water and start agitation or by-pass system.
3. Remove straining screen from filler opening of spray tank.
4. If a tank mix is to be used refer to the section on **TANK MIXTURES WITH HOE-GRASS II** herbicide.
5. Add the correct amount of **HOE-GRASS II** herbicide and continue agitation. Replace straining screen.
6. Add the remaining amount of water and continue agitation.
7. Spray out immediately. Spray mixture should not be left in tank overnight.
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9. Immediately after use, thoroughly clean the sprayer by flushing with a water/detergent mixture.

STORAGE:

CANNOT be stored below freezing. Keep away from fire, open flame, or other sources of heat. If stored for one year or longer, shake vigorously before using. Store the tightly closed container away from feeds, seeds, fertilizer, plants and foodstuffs. Keep in original container during storage.

RECYCLABLE CONTAINER 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:

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DISPOSAL OF UNUSED SPRAY SOLUTION:

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NOTICE TO USER:

This control product is to be used only in accordance with the directions on this label. It is an offense under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

NOTICE TO BUYER:

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

FOR MORE INFORMATION CONTACT:

Product Information: 1-888-283-6847

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SPRAFOIL is a registered trademark of D & W INDUSTRIES.

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