

07-APR-2011
2010-2568

NET CONTENTS: 10 litres

GROUP	5	HERBICIDE
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Simadex Simazine FLOWABLE

GUARANTEE: Simazine and related triazines 500g/L
CONTAINS 1,2-BENZISOTHIAZOLIN-3-ONE AT 0.02% AS A PRESERVATIVE

Formulation of simazine flowable liquid

COMMERCIAL

For weed control in certain fruit crops, asparagus, birdsfoot trefoil and corn, ornamentals, shelter belts, woodland and Christmas trees.

REGISTRATION NO. 15902
PEST CONTROL PRODUCTS ACT

READ THE LABEL AND ATTACHED PAMPHLET BEFORE USING

Bayer CropScience
Suite 200, 160 Quarry Park Blvd. S.E
Calgary, AB T2C 3G3
Toll Free: 1-888-283-6847

Distributed in Canada by
COOPER MILL LTD
R.R. 3, Madoc, Ontario K0K 2K0

AGRICULTURAL

For weed control in Certain Fruit Crops, Asparagus, Ornamentals, Shelter Belts, Woodland and Christmas Trees, Birdsfoot Trefoil and Corn.

GENERAL PRECAUTIONS

Harmful if swallowed. Avoid contact with eyes or prolonged contact with skin. Wear coveralls over a long-sleeved shirt and long pants, and chemical-resistant gloves during mixing/loading. Wear a long-sleeved shirt and long pants during application, cleanup and repair. In addition, wear chemical-resistant gloves and a NIOSH-approved respirator with a dust/mist filter during application using hand held equipment. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide comes in contact with skin through soaked clothing or spills. Then wash skin thoroughly and put on clean clothing. Wash contaminated clothing before reuse. Users should remove personal protective equipment immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Avoid inhalation of vapours or spray mist and prevent contamination of food and feed. Do not apply, or allow drift to desirable vegetation. Do not contaminate domestic or irrigation water supplies, lakes, streams and ponds. **Do not re-use container; destroy when empty. Do not allow material to freeze.**

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

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.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

ENVIRONMENTAL HAZARDS

TOXIC to birds and small wild mammals.

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

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.

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.

Product must not be used, mixed or loaded, or used within 15 metres of all wells, including abandoned wells, drainage wells and sink holes.

Product must not be mixed or loaded within 15 metres of intermittent streams and rivers, natural or impounded lakes and resevoirs.

One of the following restrictions must be used in applying simazine to fields containing tile drainage systems:

- Do not apply within 20 m of standpipes.
- Apply this product to the entire field and immediately incorporate it to a depth of 5-8 cm.
- Apply this product to the entire field under a no-till practice only when a high crop residue management practice is used. High crop residue management is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

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.

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. The user assumes the risk to persons or property that arises from any such use of this product.

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Formulation of Simazine flowable liquid

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ornamentals, shelter belts, woodland and Christmas trees.

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AGRICULTURAL

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GENERAL DIRECTIONS FOR USE

Weeds controlled: Simadex controls the following weeds:

Broadleaves: Lady's-thumb, Lamb's-quarters, Purslane, Ragweed, Volunteer Clovers, Wild Buckwheat, Smartweed.

Annual Grasses: Barnyard Grass, Crabgrass, Wild Oats, Yellow Foxtail.

Simadex Flowable will also control most perennial species starting freshly from seed.

DO NOT enter or allow worker entry into treated areas for 12 hours following application (except for stacking, topping, training and pruning in Christmas tree and woodland plantations). **DO NOT** enter or allow worker entry for staking, topping, training and pruning in Christmas tree and woodland plantations for 21 days following application.

For fruit and nut crop: Apply the spray to the orchard or vineyard floor, avoiding contact with fruit, foliage or stems.

Field sprayer application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm or less above the crop or ground.

DO NOT apply by air.

BUFFER ZONES:

Use of the following spray methods or equipment **DO NOT** require a buffer zone: hand-held or backpack sprayer.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats

(such as grasslands, forested areas, shelter belts, woodlots, hedgerows, riparian areas and shrublands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine/marine habitats.

Method of Application	Crop	Buffer Zone (meters) Required for the Protection of:		
		Aquatic Habitat of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	
Field Sprayer*	Corn, (sweet), Birdsfoot trefoil	1	1	5
	Corn (field), Raspberry, Strawberry, Nursery stock, Woody ornamentals,	1	1	10
	Asparagus, Grape, Loganberry, Apple tree > 1 year-old	2	1	15
	Shelterbelt, Woodland and Christmas tree (2 year stock or older)	2	1	20

*For field sprayer applications, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labeled buffer zone can be reduced by 70%. When using a spray boom where individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labeled buffer zone can be reduced by 30%.

Mixing: Mix by adding the recommended amount of Simadex to the spray tank while filling with clean water. Gentle agitation is required during mixing and spraying.

Spraying: Spray at pressures of 200-300 kilopascals. Use nozzle screens of 50 mesh size or larger. Keep Simadex mixture well agitated and spray evenly to cover the surface to be treated. After any break in the spraying operations, agitate thoroughly. After using, wash sprayer thoroughly with clean water.

PRECAUTIONS

Simadex is a residual herbicide. Use the lower rates for coarse, sandy soil and the higher rates for clay soils and soil high in organic matter. After spraying with SIMADEX FLOWABLE do not plant any crop in the treated area in the same year except corn. Sugar beets are sensitive to Simadex and should not be planted on land treated with Simadex the previous year. If rotation is planned for the following year, observe these precautions:

1. Where rates in excess of 3.5 litres/ha have been applied, do not plant rotational crops the following year.
2. Thorough tillage, including ploughing the land flat as opposed to setting the furrow on edge, should precede the planting of any rotational crop.
3. Uneven application of Simadex may result in injury to succeeding crops.
4. When extended periods of dry weather occur during the year of treatment, there can be some injury to such succeeding crops as white beans, onions, peas, tomatoes, and turnips. Injury is most likely to occur when the seedling crop is subjected to periods of stress, e.g., during periods of abnormally hot, dry weather. When the directions outlined on this label are followed, injury to these crops is unlikely to occur under normal weather conditions.
5. Where rainfall is sufficient to cause erosion, soil containing Simadex may wash to lower areas of land and injure existing or subsequent crops.
6. Caution: Do not graze the treated crops or cut for hay: sufficient data are not available to support such a use.
7. DO NOT APPLY BY AIR.

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., visit CropLife Canada's web site at: www.croplife.ca.

See other cautions for specific crops.

SPECIFIC CROPS

Apples and Pear Bearing and non-bearing - Trees established one year or more.
Apply 4.5-9.0 litres in 300 litres of water per hectare prior to weed emergence in the spring. If weeds have emerged, hoe or cultivate prior to treatment.

Loganberry Established plantings only.
Apply 6.7-10.8 litres in 300 litres of water per hectare to base of canes in early spring prior to new cane growth.

Raspberries (Red) Established plantings only.
Apply 3.6-4.5 litres in 300 litres of water per hectare at base of canes in early spring. Do not spray young shoots.

Grapes Eastern Canada Only
Only for vineyards established 3 years or more.
Broadcast 7.2-9.0 litres in 300 litres of water per hectare in fall or early spring prior to weed emergence. On light soils use 7.2 litres per hectare. On clay soils or soils high in organic matter, use 9.0 litres per hectare.

Strawberries Coastal British Columbia Only. First year planting.
Cultivate mid-September and apply 2.24 litres in 300 litres of water per hectare.
Do not exceed one application per year

Bearing Plants

Cultivate after harvest and irrigate if soil is dry before applying 3.6 litres in 300 litres of water per hectare.

Do not apply before or during harvest.

Western Canada only (not including British Columbia)

Only for new plantings established at least six weeks.

Cultivate prior to application of 3.6 litres in 300 litres of water per hectare. Irrigate following application if soil is dry. Do not use Simadex until plants are growing vigorously.

Asparagus Established plantings only.

Apply 4.5-6.7 litres in 300 litres of water per hectare, after discing in spring prior to weed and spear emergence and at least 7 days before first cutting. A second application may be applied after harvest completion if weeds are removed.

Do not apply during cutting season.

Woody Ornamentals and Nursery Stock Established one year or more.

To control germinating weeds in Cedar (Arbor Vitae, Thuja spp.) Barberry, Apple (Non-bearing), Flowering Crabapple (Malus spp.), Boxwood, Cotoneaster, Dogwood, Holly, Rosewood, Yews (Taxus spp.), Chamaecyparis, Hemlock, Juniper, Multiflora Rose, Peony, Blue Spruce, Norway Spruce, Red Spruce, White Spruce, Mugho Pine, Black Walnut, White Ash.

Apply 4.5-6.7 litres in 300 litres of water per hectare in the fall or spring prior to weed emergence. Rainfall is required to move the chemical into the root zone.

If weeds have emerged, hoe or cultivate before application.

Apply before buds break in spring.

Use 4.5 litres for sandy or low organic matter soils. Use 6.7 litres for clay or high organic matter soils.

NOTE: Do not use treated areas for nursery seed beds or cutting beds for at least 12 months after treatment. If application was uneven, or, if rates in excess of those recommended have been applied, a longer period should elapse before such use.

Shelter Belts: Established one growing season or more: Caragana, Green Ash, Siberian Elm, American Elm, and Boxelder Maple.

Apply 9.0-13.5 litres in 500 litres of water per hectare before weeds emerge.

Apply in fall or early spring. Injury may occur to trees grown in saline soils.

Rainfall is required to move the chemical into the root zone.

CHRISTMAS TREE AND WOODLAND PLANTATIONS (less than 500 hectares): 2 YEAR STOCK OR OLDER.

For control of germinating annual and perennial grasses and broadleaf weeds in new or established plantings of White Pine and Balsam Fir.

Rate of Simadex Flowable per Hectare of Trees

Row Spacing	60 cm band	90 cm band
180 cms	2.9-4.3 litres	4.3-6.5 litres
150 cms	3.4-5.0 litres	5.2-8.3 litres
120 cms	4.3-6.5 litres	6.5-9.7 litres

Apply 9.0-13.5 litres in 300 litres of water per hectare of ground treated.

Apply in a band centred over the rows. Application may be made directly over trees.

Apply in spring prior to weed growth or in fall prior to freeze up. If weeds have emerged, treatment may be unsatisfactory.

NOTE: Use the higher rate where there are heavy infestations of perennial grasses, e.g., Quackgrass.

Birdsfoot Trefoil In Established Fields Only: To prevent fall germinating broadleaf weeds, grasses and legumes.

Apply only in September to November prior to freeze-up 2.2 litres in 300 litres of water per hectare. May be applied in year of seeding if population is at least 55 plants per sq metre and if plants are at least 15 cms high.

Do not apply Paraquat within 1 year of treatment. Do not treat the same field with Simazine for 3 consecutive years.

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

CORN

Soil Preparation: As Simadex is a residual herbicide, even coverage of the soil surface is essential for good weed control. Simadex should be applied to a firm, level seedbed. If the seedbed is rough or cloddy, roll or cultipack before spraying.

Cultivations: Simadex requires rainfall to be activated. If some seedlings escape the treatment in dry weather, a shallow cultivation may be necessary.

Time of Application: Apply Simadex Flowable immediately after seeding, prior to weed emergence and not later than 3-4 days after seeding. Simadex may also be applied one week before seeding and incorporated to a depth of 2.5 cms.

Do not exceed one application per year

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

Mixing Instructions: Follow mixing instructions with water as outlined above.

Application Rate per Hectare

Soil Type	Overall Spray
Light and Sandy	3.2-4.5 litres
Loams and Clays	4.5

RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Simadex Flowable is a Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to the

components of Simadex Flowable and other Group 5 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of Simadex Flowable or other Group 5 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 Bayer representative, or call Bayer CropScience toll-free at 1-888-283-6847.

GENERAL PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed. Avoid contact with eyes or prolonged contact with skin. Wear coveralls over a long-sleeved shirt and long pants, and chemical-resistant gloves during mixing/loading. Wear a long-sleeved shirt and long pants during application, cleanup and repair. In addition, wear chemical-resistant gloves and a NIOSH-approved respirator with a dust/mist filter during application using hand held equipment. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing immediately if pesticide comes in contact with skin through soaked clothing or spills. Then wash skin thoroughly and put on clean clothing. Wash contaminated clothing before reuse. Users should remove personal protective equipment immediately after handling this product. Wash the outside of the gloves before removing. As soon as possible, wash thoroughly and change into

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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.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

ENVIRONMENTAL HAZARDS

TOXIC to birds and small wild mammals.

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

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.

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.

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One of the following restrictions must be used in applying simazine to fields containing tile drainage systems:

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