



# Eclipse™ II B Herbicide

GROUP	9	HERBICIDE
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This component must only be used in the Eclipse II Herbicide Tank-Mix

## AGRICULTURAL

**READ THE LABEL AND BOOKLET BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**

**GUARANTEE:** Glyphosate, 480 grams acid equivalent per litre present as isopropylamine salt.  
Solution

**REGISTRATION NO. 28540 PEST CONTROL PRODUCTS ACT.**



**CAUTION**

**IRRITANT**

**DANGER: EYE AND SKIN IRRITANT  
POTENTIAL SKIN SENSITIZER  
HARMFUL IF SWALLOWED**

Net Contents 7.5 L, bulk

**Dow AgroSciences Canada Inc.**  
Suite 2100, 450 - 1 Street S.W.  
Calgary, Alberta  
T2P 5H1  
1-800-667-3852

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**PRECAUTIONS**  
**MAY CAUSE EYE AND SKIN IRRITATION**  
**HARMFUL IF SWALLOWED**  
**KEEP OUT OF REACH OF CHILDREN**  
**DO NOT APPLY BY AIR**

Avoid contact with eyes and skin.

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](http://www.croplife.ca).

Wear long sleeved shirt, long pants and chemical resistant gloves during mixing, loading, application, clean up and repair. In addition, wear goggles or a face shield during mixing and loading.

Workers should not enter treated fields within 12 hours of treatment. Workers who must enter fields within this time period should wear a long-sleeved shirt, long pants and chemical-resistant gloves.

**PHYSICAL OR CHEMICAL HAZARDS**

Spray solutions of this product should be mixed, stored and applied only in stainless steel, aluminum, fibreglass, plastic and plastic-lined steel containers. **DO NOT MIX, STORE OR APPLY THIS PRODUCT OR SPRAY SOLUTIONS OF THIS PRODUCT IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS.** This product or spray solutions of this product react with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

**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**

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient.

**AGRICULTURAL CHEMICAL**

Do not ship or store with food, feeds, drugs or clothing.

**ENVIRONMENTAL HAZARDS**

Avoid direct applications to any body of water. Do not contaminate water by disposal of waste or cleaning of equipment.

## **STORAGE**

Avoid contamination of seed, feed, and foodstuffs.  
Soak up small amounts of spill with absorbent clays.

## **DISPOSAL**

### **Recyclable Containers:**

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

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

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

### **Returnable Containers:**

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**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.



# Eclipse™ II

## Herbicide Tank-Mix

GROUP	4	9	HERBICIDES
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### AGRICULTURAL

**READ THE LABEL AND BOOKLET BEFORE USING**  
**KEEP OUT OF REACH OF CHILDREN**

This co-package contains:

Eclipse II A Herbicide  
 REGISTRATION NO. 28539 PEST CONTROL PRODUCTS ACT  
 GUARANTEE: clopyralid 360 g/L  
 (present as the monoethanolamine salt)

Solution

Eclipse II B Herbicide  
 REGISTRATION NO. 28540 PEST CONTROL PRODUCTS ACT  
 GUARANTEE: Glyphosate, 480 grams acid equivalent per litre present as isopropylamine salt.  
 Solution

**CAUTION**  **POISON**

**CAUTION**  **IRRITANT**

**DANGER – EYE AND SKIN IRRITANT**  
**HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN**  
**POTENTIAL SKIN SENSITIZER**

NET CONTENTS:	Eclipse II A Herbicide	4.45 L, bulk
	Eclipse II B Herbicide	7.5 L, bulk

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## **PRECAUTIONS**

KEEP OUT OF REACH OF CHILDREN

Danger – Eye and skin irritant

Harmful if swallowed or absorbed through skin

Potential skin sensitizer

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](http://www.croplife.ca).

## **COMBUSTIBLE**

Avoid contact with eyes, skin and clothing. Avoid breathing vapours or spray mist.

Workers must wear clean, body-covering coveralls over long pants, a long-sleeved shirt and chemical-resistant gloves. Goggles or a face shield are required during mixing and loading. Gloves are not required to be worn during groundboom applications but are required for mixing/loading, clean-up and repair. For application using hand-held equipment, wear chemical resistant gloves.

Do not enter or allow workers entry into treated areas for 12 hours following application to all crops.

**AT COMPLETION OF SPRAYING OR END OF THE DAY:** Take a shower immediately. Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing at the end of the work session and store and wash separately from household laundry using detergents and hot water before reuse.

Workers should not enter treated fields within 12 hours of treatment. Workers who must enter fields within this time period should wear a long-sleeved shirt, long pants and chemical-resistant gloves.

## **PHYSICAL OR CHEMICAL HAZARDS**

Spray solutions of this herbicide tank-mix should be mixed, stored and applied only in stainless steel, aluminum, fibreglass, plastic and plastic-lined steel containers. **DO NOT MIX, STORE OR APPLY THIS HERBICIDE TANK-MIX IN GALVANIZED STEEL OR UNLINED STEEL (EXCEPT STAINLESS STEEL) CONTAINERS OR SPRAY TANKS.** This herbicide tank-mix reacts with such containers and tanks to produce hydrogen gas which may form a highly combustible gas mixture. This gas mixture could flash or explode, causing serious personal injury, if ignited by open flame, spark, welder's torch, lighted cigarette or other ignition source.

## **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**

No specific antidote. Employ supportive care. Treatment should be based on judgement of the physician in response to reactions of the patient.

### **AGRICULTURAL CHEMICAL**

Do not ship or store with food, feeds, drugs or clothing.

### **ENVIRONMENTAL HAZARDS**

TOXIC to non-target terrestrial plants. Observe buffer zones specified under DIRECTIONS FOR USE.

The use of this chemical may result in contamination of groundwater particularly in areas where soils are permeable (for example, sandy soil) and/or the depth to the water table is shallow.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to: heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (for example, soils that are compacted or fine textured such as clay).

Avoid application of this product when heavy rain is forecast.

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

### **STORAGE**

Store away from food, feedstuff, fertilizer, seeds, insecticides, fungicides or other pesticides or herbicides intended to be used on crops sensitive to clopyralid. Store in heated storage; if products are frozen, bring to room temperature and agitate before use. Soak up small amounts of spill with absorbent clays.

### **DISPOSAL**

#### **Recyclable Containers:**

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

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

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

#### **Returnable Containers:**

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

## **DIRECTIONS FOR USE**

### **GENERAL INFORMATION**

Eclipse II Herbicide Tank-Mix is a post emergent herbicide tank-mix intended for dilution with water and for use on glyphosate tolerant canola only. It is readily absorbed by both foliage and roots and translocates both upwards and downwards in plants. The tank-mix provides season long control of Canada thistle and control of other annual and perennial broad-leaved weeds.

Do not treat weeds under poor growing conditions such as drought stress, disease or insect damage, as reduced weed control may result. Reduced results may also occur when treating weeds heavily covered with dust.

Heavy rainfall immediately after application may wash the chemical off the foliage. Do not apply if rainfall is forecast for the time of application.

Do not mix with any surfactant, pesticide, herbicide oils or any other material other than water unless specified in this booklet. For best results, spray coverage should be uniform and complete. Do not spray weed foliage to the point of runoff.

### **MIXING AND APPLICATION PRECAUTIONS**

**AVOID CONTACT WITH FRUIT OF CROPS, DESIRABLE PLANTS AND TREES SINCE SEVERE INJURY OR DESTRUCTION MAY RESULT.**

**APPLY THESE SPRAY SOLUTIONS IN PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING DESIRED VOLUMES.**

Do not use in greenhouses.

Apply only when the potential for drift to areas of human habitation or areas of human activity (such as houses, cottages, schools and recreational areas) is minimal. Take into consideration wind speed, wind direction, temperature inversions, application equipment sprayer settings.

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.

**AVOID DRIFT - EXTREME CARE MUST BE USED WHEN APPLYING THIS TANK-MIX TO PREVENT INJURING DESIRABLE PLANTS AND CROPS.** Do not allow spray mist to drift since even minute quantities of spray can cause severe damage or destruction to nearby crops, plants or other areas on which treatment is not intended, or may cause other unintended consequences. Do not apply when winds are gusty or in excess of 8 km/h or when other conditions, including lesser wind velocities, will allow drift to occur. When spraying, avoid combinations of pressure and nozzle type that will result in fine particles (mist) which are more likely to drift.

Residues of Eclipse II Herbicide Tank-Mix can remain in the soil following the year of use, thereby affecting growth of sensitive crops. See crop rotation section.

**APPLY ECLIPSE II HERBICIDE TANK-MIX ON GLYPHOSATE TOLERANT CANOLA VARIETIES ONLY.**

**ALWAYS USE PEDIGREED (I.E. CERTIFIED) GLYPHOSATE TOLERANT CANOLA SEED. CANOLA WHICH IS NOT DESIGNATED AS GLYPHOSATE TOLERANT WILL BE DAMAGED OR DESTROYED BY THIS TREATMENT.**

Some short-term, visual yellowing may occur when Eclipse II Herbicide Tank-Mix is applied at the late application 4 to 6 leaf stage of the crop. This effect is temporary and will not influence crop growth, maturity or yield.

**REDUCED RESULTS MAY OCCUR IF WATER CONTAINING SOIL IS USED, SUCH AS WATER FROM PONDS AND UNLINED DITCHES.**

Clean sprayer and parts immediately after using this herbicide tank-mix by thoroughly flushing with water. Do not contaminate water sources by disposal of wastes or cleaning of equipment.

Use of this herbicide tank-mix in any manner not consistent with this booklet may result in injury to persons, animals or crops, or other unintended consequences. Keep containers closed to prevent spills and contamination.

#### **Crop Rotation**

Fields previously treated with Eclipse II Herbicide Tank-Mix can be seeded the following year to wheat, oats, barley, rye (not underseeded with legumes, clover or alfalfa), forage grasses, flax, canola, mustard, field peas, or it can be summerfallowed. Seed only those crops listed above in the year following treatment. Do not seed to field peas for at least 10 months following treatment. Very dry soil conditions following application can result in a risk of injury to field peas grown in rotation. If severe drought conditions are experienced during the months of June to August inclusive in the year of application, delay seeding field peas an additional 12 months (total 22 months following application). Contact your local Dow AgroSciences Canada representative or retailer for more information before seeding field peas following drought conditions in the previous year.

Do not seed to crops other than those listed above in the calendar year following treatment.  
Do not seed to field peas for at least 10 months following treatment.

#### **Grazing**

Allow 3 to 5 days before grazing treated areas.

#### **Non-Target Sites**

Avoid contamination of non-target land, water or irrigation ditches. Do not use Eclipse II Herbicide Tank-Mix in the following areas: standing or flowing water, the inner banks or bottoms of irrigation ditches; in areas where surface water can run off to adjacent croplands either planted or to be planted to sensitive crops

#### **Manure and Straw**

Residues of the herbicide tank-mix occurring in the straw may be harmful to susceptible plants; therefore, do not use straw or crop residue from treated crops for composting or mulching susceptible broadleaved crops. If the straw or crop residue is used for animal bedding or feed, return the manure to fields to be planted to clopyralid tolerant crops such as wheat, barley, oats, rye, forage grasses, canola or flax. Do not grow susceptible crops such as peas, beans, lentils, potatoes, sunflowers or other sensitive crops on land which has been mulched with straw containing clopyralid residues within the last 12 months.



**MIXING AND APPLICATION EQUIPMENT INFORMATION**

To Reduce Spray Drift:

1. Use nozzles that deliver higher volumes and coarser droplets.
2. Use low pressures (200 to 275 kPa).
3. Use 100 L/ha of spray solution.
4. Spray when the wind velocity is 8 km/hr or less.

**Equipment Clean-Up**

Equipment used to apply Eclipse II Herbicide Tank-Mix should not be used to apply other pesticides to sensitive crops without thorough cleaning. Contact your Eclipse II Herbicide Tank-Mix dealer for a detailed equipment cleaning procedure.

**MIXING AND APPLICATION DIRECTIONS****Spray Preparation**

To prepare the spray solution, first add Eclipse II A Herbicide to the spray tank. Once it is half filled with water, add Eclipse II B Herbicide as the remaining water is put into the spray tank.

**Application Rates**

Eclipse II Herbicide Tank-Mix will control the annual and perennial weeds listed in the table below. Apply 0.28 L/ha of Eclipse II A Herbicide and 0.94 L/ha of Eclipse II B Herbicide in 100 L of water per hectare. Apply when canola is in the 2-6 leaf stage. Ensure the crop has not advanced beyond the recommended growth stage.

<b>Weeds Controlled</b>
Annual Grasses: wild oats, green foxtail, volunteer barley, volunteer wheat
Annual Broad-leaved Weeds: stinkweed, redroot pigweed, wild mustard, Russian thistle, lamb's-quarters, non-glyphosate tolerant volunteer canola (rapeseed), hempnettle, lady's thumb, kochia, chickweed, corn spurry, wild tomato, cleavers, wild buckwheat, shepherd's purse, cow cockle, night-flowering catchfly, smartweed
Perennial Weeds (season long control): quackgrass, Canada thistle, perennial sowthistle (season-long top growth), dandelion <15 cm diameter (season-long top growth), dandelion >15 cm diameter (suppression)

**BUFFER ZONES**

Uses of the following spray method or equipment DOES NOT require a buffer zone: hand-held

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, woodlots, hedgerows, riparian areas and shrublands).

<b>Method of Application</b>	<b>Crop</b>	<b>Buffer Zones (metres) Required for the Protection of Terrestrial Habitat</b>
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field sprayer*	canola	2**
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\*For field sprayer application, 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 labelled 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 labelled buffer zone can be reduced by 30%.

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

### **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that Eclipse II Herbicide Tank-Mix is both a Group 4 and a Group 9 herbicide. Any weed population may contain plants naturally resistant to Group 4 and/or Group 9 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same fields.

To delay herbicide resistance:

- Where possible, rotate the use of Eclipse II Herbicide Tank-Mix or other Group 4 and Group 9 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 Dow AgroSciences Canada Inc. at 1-800-667-3852 or at [www.dowagro.ca](http://www.dowagro.ca).

**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.