

2024-1732  
2024-05-08

Container label

GROUP	<b>15</b>	HERBICIDE
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**Epitome™ Herbicide**  
Emulsifiable Concentrate

COMMERCIAL

Selective Herbicide for Use in Mineral Soils

**ACTIVE INGREDIENT:**

EPTC..... 838 g/L

Warning, contains the allergen soy.

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



REGISTRATION NO. 35182  
PEST CONTROL PRODUCTS ACT

NET CONTENTS: **10 L - BULK**

ACETO LIFE SCIENCES, L.L.C.  
4 Tri Harbor Court  
Port Washington, New York  
USA 11050-  
516-627-6000

## **NOTICE TO USER**

This pest control product is to be used only in accordance with the directions on the label. It is an offense under the *PEST CONTROL PRODUCTS ACT* to use this product in a way that is inconsistent with the directions on the label.

## **FIRST AID**

**IF SWALLOWED:** call a poison control centre or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give **any** liquid to the person. 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 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.

**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.

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

## **TOXICOLOGICAL INFORMATION:**

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

## **PRECAUTIONS**

**KEEP OUT OF REACH OF CHILDREN - HARMFUL IF SWALLOWED**

Avoid contact with skin, eyes and clothing. Avoid breathing spray mist. Wash skin thoroughly with soap and water after use. Avoid contamination of food and feed. Do not contaminate irrigation water or water used for domestic purposes. Keep container closed when not in use.

## **ENVIRONMENTAL PRECAUTIONS**

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

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 of this product 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.

This product demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this product in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

To minimize the release of EPTC into the environment due to volatilization, EPTC should only be applied on cool mornings and evenings when air temperatures are 15°C or lower. To further reduce volatilization to the atmosphere, incorporation into the soil should occur concurrently with application.

## **STORAGE**

Keep container closed when not in use. Do not store near food, feed, seeds or fertilizers. Can be stored at temperatures as low as minus 45°C.

## **SPILL CLEANUP**

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gauge plastic bag. In case of emergency involving a major spill, leak or fire call Chemtrec at 1-800-424-9300.

For spills and leaks; contain the liquid with dikes of inert material (soil, clay, kitty litter etc.). Absorb the spill onto inert material and shovel into a sealable waste container.

On hard surfaces - sprinkle spill area with detergent and scrub in a small quantity of water with a coarse broom. Let stand 10 minutes then absorb onto an inert material and shovel into the waste container.

On soil - remove the top 15 cm of soil in the spill area and replace with fresh soil. Dispose of all waste including scrub brush in accordance with provincial requirements. 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.

## **DISPOSAL:**

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

## **CONTAINER DISPOSAL:**

### **FOR DISPOSAL OF PLASTIC JUGS:**

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 REFILLABLE CONTAINERS:**

For disposal, this container may be returned to the point of purchase (distributor/dealer). It must be refilled by the distributor/dealer with the same product. Do not reuse this container for any other purpose.

If the container is not being refilled, refer to the section "FOR DISPOSAL OF PLASTIC JUGS".

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## **PERSONAL PROTECTIVE EQUIPMENT**

### **MIXERS, LOADERS AND APPLICATORS**

Wear coveralls over long-sleeved shirt, long pants, chemical-resistant gloves, socks, chemical-resistant footwear and a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab.

When handling greater than 755 kilogram of active ingredient per person per day (i.e., treating over 110 ha at highest label rate of 6.8 kg. a.i. ha), workers must use a closed mixing and loading system. A closed system means removing a pesticide from its original container, rinsing, mixing, diluting, and transferring the pesticide through connecting hoses and couplings that prevent exposure to the pesticide. Handlers must wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks, and chemical-resistant footwear during application, clean-up and repair. A respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides, or a NIOSH-approved canister approved for pesticides, is also required during application.

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

## **ENVIRONMENTAL PRECAUTIONS**

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If the container is not being refilled, refer to the section "FOR DISPOSAL OF PLASTIC JUGS".

## **PRODUCT INFORMATION**

**EPITOME HERBICIDE** is a selective herbicide which is mixed (incorporated) in the soil for control of weeds listed on this label. **EPITOME HERBICIDE** controls weeds by interfering with normal germination and seedling development. It does not control established weeds. All weed growth and crop stubble should be thoroughly worked into the soil before treatment.

## **DIRECTIONS FOR USE**

As this product is not registered for the control of pests in aquatic systems, DO NOT use to control aquatic pests.

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

Make only two applications per year.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours.

**DO NOT** apply by air.

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 S572.1) medium classification. Boom height must be 60 cm. or less above the crop or ground.

## **SPRAY BUFFER ZONES:**

A spray buffer zone is NOT required for:

- uses with hand-held application equipment permitted on this label,
- low-clearance hooded or shielded sprayers that prevent spray contact with crop, fruit or foliage,
- soil drench or soil incorporation.

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	Spray Buffer Zones (metres) Required for the Protection of:		
		Aquatic Habitat of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	
Field sprayer	Potatoes	1	1	4
	Flax, cicer milkvetch, sugar beets	0	0	2

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 (ASAE) category indicated on the labels for those tank mix partners.

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

**EPITOME HERBICIDE** is recommended for use on mineral soils only.

**EPITOME HERBICIDE** should be used only for recommended purposes and at recommended rates. (DO NOT OVERDOSE).

Applied according to directions and under normal growing conditions, **EPITOME HERBICIDE** will not harm the treated crop. However, during germination and early stages of growth, unusually cold and wet or hot and dry weather, insect, nematode, or plant disease attack, the use of certain soil-applied systemic insecticides, highly saline or alkaline soil conditions, improperly placed fertilizers or soil insecticides may create abnormal conditions that weaken crop seedlings. **EPITOME HERBICIDE** used under these abnormal conditions could result in crop injury.

When applied according to directions and under conditions for normal crop growth, no harmful residues should remain beyond harvest.

Do not tank mix **EPITOME HERBICIDE** with insecticides or fungicides unless compatibility has been tested prior to use.

Do not apply prior to pre-irrigation.

**DO NOT APPLY BY AIR.**

### **TANK MIXTURES**

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 ACETO LIFE SCIENCES, L.L.C. at 516-627-6000 for information before applying any tank mix that is not specifically recommended on this label.

## WEEDS CONTROLLED

EPITOME HERBICIDE will not control established weeds.

WEEDS CONTROLLED	TANK MIXES		
	ALONE	SENCOR 75 DF/ LEXONE DF HERBICIDE DISPERSIBLE GRANULES	TREFLAN LIQUID EC HERBICIDE/ RIVAL EMULSIFIABLE CONCENTRATE LIQUID HERBICIDE
<b>Annual Grasses</b>			
Annual Blue Grass	Y	Y	N
Annual Rye Grass (Italian Rye Grass)	Y	Y	N
Barnyard Grass (Water grass)	Y	Y	Y
Crab Grass	Y	Y	Y
Foxtails (Green and Yellow)	Y	Y	Y
Giant Foxtail	N	Y	N
Goose Grass	Y	Y	N
Volunteer Grains (Barley, Oats, Wheat)	Y	Y	N
Wild Oats	Y	Y	N
Witch Grass	Y	Y	N
Fall Panicum	Y	Y	N
Cheat Grass	N	Y	N
<b>Annual Broadleaf Weeds</b>			
Common Chickweed	Y*	Y	N
Corn Spurry	Y*	Y	N
Hairy Nightshade**	Y*	Y	N
Hempnettle	N	Y	N
Henbit (Deadnettle)	Y*	Y	N
Lamb's-quarters	Y*	Y	Y
Pigweed (Prostrate, Redroot, Tumble)	Y*	Y	Y
Purslane	Y*	Y	N
Nettleleaf Goosefoot	Y*	Y	N
Ragweed	N	Y	N
Ball Mustard	N	Y	N
Wild Mustard	N	Y	N
Lady's-thumb	N	Y	N
Velvetleaf	N	Y	N
Common Yellow (Wood-sorrel)	N	Y	N
Jimsonweed	N	Y	N
Prickly Mallow	N	Y	N
Shepherd's-purse	N	Y	N
Stinkweed	N	Y	N
Tartary buckwheat	N	Y	N
Green Smartweed	N	Y	N
Russian-thistle	N	Y	N
Seedling Dandelion	N	Y	N

Volunteer non-triazine tolerant canola	N	Y	N
<b>Perennial Weeds ***</b>			
Quack Grass (Couch Grass, Twitch Grass)****	Y	N	N
Yellow Nutsedge	Y	N	N

\* These annual broadleaf weeds will be controlled by **EPITOME HERBICIDE** alone, only if treatment is made when conditions are favourable for germination and growth.

\*\* Western Canada only.

\*\*\* Perennial weeds must be turned under and chopped up thoroughly prior to treatment.

\*\*\*\* For the control of quack grass the disc must be set to cut 15 centimetres deep and the higher rates (6.7 - 8.1 litres per hectare) of **EPITOME HERBICIDE** must be used. The underground rhizomes of quack grass must be cut up thoroughly so that four or less nodes remain on a strand. Consult the use directions for crops on which these higher rates may be used.

## APPLICATION RATES

These recommendations are given as broadcast (overall) rates of **EPITOME HERBICIDE** per hectare. For band treatment, use proportionately less material per hectare depending upon the width of the band to be treated and the crop row spacing. Do not use band treatment on rocky ground because thorough incorporation is not possible.

**ALFALFA AND BIRDSFOOT TREFOIL (new seedlings)** - Before planting, apply and incorporate 4.1 litres **EPITOME HERBICIDE** per hectare. Temporary crop stunting and sealing of first leaves will occur in legumes if conditions for germination and growth are not optimum. Do not use **EPITOME HERBICIDE** if a grass or grain nurse crop is to be planted with the legume.

**BEANS, SNAP COMMON OR DRY COMMON<sup>1</sup> (of the species *Phaseolus vulgaris*)** - Do not use **EPITOME HERBICIDE** on Adzuki (Japanese) beans or crop cowpeas (blackeye peas, blackeye beans), soybeans, lima beans or other flat-podded beans, except Romano, fababeans or mungbeans. Before planting, apply and incorporate 4.1 to 5.3 litres **EPITOME HERBICIDE** per hectare. If dry weather prevails at time of treatment, delay seeding of beans seven to ten days. For dense nut grass stands and for quack grass, apply 5.3 litres **EPITOME HERBICIDE** per hectare.

<sup>1</sup> Dry common bean varieties may vary in their tolerance to herbicides, including to **EPITOME HERBICIDE**. Since not all dry common bean varieties have been tested for tolerance to **EPITOME HERBICIDE**, first use of **EPITOME HERBICIDE** should be limited to a small area of each variety to confirm tolerance prior to adoption as a general field practice. Additionally, consult your seed supplier for information on the tolerance of specific varieties of dry common beans to **EPITOME HERBICIDE**.

Rotary hoe lightly during or shortly after emergence of the beans to break any crust which occurs. Supplementary row cultivation will be required to improve quack grass control.

**NOTE:** Under extreme weather conditions, such as cold temperatures and wet soils or higher temperatures and dry soils, stunting may occur.

**BEANS, DRY COMMON (WHITE AND RED KIDNEY ONLY): EPITOME HERBICIDE** /Trifluralin (TREFLAN LIQUID EC HERBICIDE, RIVAL EMULSIFIABLE CONCENTRATE LIQUID HERBICIDE). The combination of **EPITOME HERBICIDE** /Trifluralin or **EPITOME HERBICIDE**/Ethalfuralin is recommended for the control of barnyard grass, crabgrass, foxtails (green and yellow), pigweeds (redroot and prostrate) and lamb's quarters on mineral soils. Use of higher than recommended rates may result in crop injury. Before planting, apply and incorporate 2.9 litres of **EPITOME HERBICIDE** in combination with 1.1 litres of TREFLAN LIQUID EC HERBICIDE or 1.2 litres of RIVAL EMULSIFIABLE CONCENTRATE LIQUID HERBICIDE per hectare. Follow the mixing, application and incorporation directions specified on this label. Observe all precautions and limitations on labelling of all products.

Rotary hoe lightly during or shortly after emergence of the beans to break any crust which occurs. Supplementary row cultivation will be required to improve quack grass control.

**NOTE:** Under extreme weather conditions, such as cold temperatures and wet soils or higher temperatures and dry soils, stunting may occur.

**CICER MILKVETCH AND SWEET CLOVER – (For seed production)** Before planting, apply and incorporate 4.1 litres **EPITOME HERBICIDE** per hectare.

#### **FLAX**

Seed shallow, no deeper than 3.0 centimetres into a firm seedbed. Reduced stands and crop damage may occur with deep seeding.

**FLAX - SPRING TREATMENT** - Apply and incorporate 3.3 to 4.1 litres **EPITOME HERBICIDE** per hectare just before planting. Use the lower rate on light, sandy soils and the higher rate on heavier textured soils. Do not use on soils with less than 3% organic matter.

**FLAX (Do not use on low linolenic acid varieties) - SPRING TREATMENT: EPITOME HERBICIDE** /Trifluralin (TREFLAN LIQUID EC HERBICIDE, RIVAL EMULSIFIABLE CONCENTRATE LIQUID HERBICIDE) - The combination of **EPITOME HERBICIDE** /trifluralin is recommended for the control of barnyard grass, wild oats, green foxtails, redroot pigweed and lamb's quarters on mineral soils. Use of higher than recommended rates may result in crop injury. Before planting, apply and incorporate 2.9 litres of **EPITOME HERBICIDE** in combination with 1.1 litres of TREFLAN LIQUID EC HERBICIDE or 1.2 litres of RIVAL EMULSIFIABLE CONCENTRATE LIQUID HERBICIDE per hectare.

**Note:** The tank mix combination of **EPITOME HERBICIDE** /Trifluralin (TREFLAN LIQUID EC HERBICIDE, RIVAL EMULSIFIABLE CONCENTRATE LIQUID HERBICIDE) may result in reduced crop stand and/or crop damage, however yield should not be affected.

**Note:** Seed shallow, no deeper than 3.0 centimeters into a firm seedbed. Reduced stands and crop damage may occur with deep seeding. Observe all precautions and limitations on labelling of all products.

**FLAX - FALL TREATMENT (Western Canada Only)** - Apply and incorporate 4.1 to 5.3 litres **EPITOME HERBICIDE** per hectare in late fall before the ground freezes. Use the lower rate on light sandy soils and the higher rate on heavier textured soils. The following spring, prior to seeding, cultivate lightly to destroy any surviving winter germinating seeds.

## SUNFLOWERS

**SUNFLOWER - SPRING TREATMENT** - Before planting, apply and incorporate 4.1 litres **EPITOME HERBICIDE** per hectare. Do not use on light, sandy soils with less than 3% organic matter.

**SUNFLOWER - FALL TREATMENT (Prairie Provinces Only)** - Apply and incorporate 4.1 to 5.3 litres **EPITOME HERBICIDE** per hectare in the late fall before the ground freezes. The following spring prior to seeding cultivate lightly to destroy any surviving winter germinating seeds. Use the lower rate on light sandy soils and the higher rate on heavier textures soils.

## SUGAR BEETS

**SUGAR BEETS - SPRINKLER IRRIGATION WATER** - Meter 2.6 to 4.1 litres **EPITOME HERBICIDE** into the first irrigation water immediately after clean cultivation. Do not apply within 49 days of harvest.

**SUGAR BEETS - FALL TREATMENT (Recommended in Alberta and Manitoba Only)** - Apply and incorporate 4.1 to 5.3 litres **EPITOME HERBICIDE** per hectare (use 5.3 litres in Alberta) in the late fall before the ground freezes. Mix thoroughly into the top 7.5 to 10 centimetres of soil. When a disc is used for incorporation, disc twice, the second time at right angles to the first. In Manitoba, use the lower rate on lighter (sandy) soils; use the higher rate on medium to heavy textured soils. Use the higher rate in Alberta.

The following spring, prior to seeding, cultivate lightly using a harrow or other shallow cultivator to destroy any surviving winter-germinating seeds. Keep spring tillage at a minimum to conserve moisture.

**TURNIPS (Rutabagas) - (Do not use in Eastern Canada)**. Six to ten days before planting, apply and incorporate 3.1 litres **EPITOME HERBICIDE** per hectare on light sandy soils or 4.1 litres on medium to heavy textured soils. If dry weather prevails at time of treatment, do not use **EPITOME HERBICIDE** on sand and use the lower rate on medium and heavy textured soils.

## POTATOES (IRISH)

**POTATOES - FALL TREATMENT (Prairie Provinces Only)** - Apply and incorporate 5.3 to 8.1 litres **EPITOME HERBICIDE** per hectare in the late fall before the ground freezes. The following spring prior to seeding cultivate lightly to destroy any surviving winter germinating seeds. For quack grass use 6.7 to 8.1 litres per hectare. Consult notes for perennial weed control.

**POTATOES - BEFORE PLANTING** - Apply and incorporate 4.1 to 8.1 litres **EPITOME HERBICIDE** per hectare. For dense nut grass stands and quack grass, use 6.7 to 8.1 litres per hectare.

**POTATOES - BEFORE PLANTING: EPITOME HERBICIDE /Metribuzin (LEXONE DF HERBICIDE DISPERSIBLE GRANULES, SENCOR 75 DF)\* TANK MIX COMBINATION** - A tank mix combination of **EPITOME HERBICIDE /Metribuzin (LEXONE DF HERBICIDE DISPERSIBLE GRANULES, SENCOR 75 DF)**, applied pre-plant and soil-incorporated, will give a broader spectrum of weed control than either product used separately. Please see precautions listed below. Apply 4.1 to 5.3 litres **EPITOME HERBICIDE** per hectare in combination with Metribuzin (LEXONE, SENCOR) as follows:

### **Metribuzin (LEXONE DF HERBICIDE DISPERSIBLE GRANULES, SENCOR 75 DF)**

	Kilograms of Metribuzin (LEXONE DF HERBICIDE DISPERSIBLE GRANULES,
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	SENCOR 75 DF) in 200 - 300 L of water per hectare		
<b>SOIL TEXTURE*</b>		<b>2 - 4% organic matter</b>	<b>4-7% organic matter**</b>
Medium Soils (loam, silt loam, silt sandy loam, sandy clay loam)	LEXONE DF HERBICIDE DISPERSIBLE GRANULES SENCOR 75 DF	0.75 kg	1.0 kg
		0.75 kg	1.0 kg
Heavy Soils (silty clay, silty clay loam, clay loam)	LEXONE DF HERBICIDE DISPERSIBLE GRANULES SENCOR 75 DF	1.0 kg	1.1 kg
		1.0 kg	1.1 kg

\* Do not use on sandy or coarse textured soils with less than 2% organic matter as crop injury may result.

\*\* DO NOT apply on soils greater than 7% organic matter.

## PRECAUTIONS

Do not use on red-skinned or early potatoes, or on the varieties Belleisle or Tobique.

Do not use **EPITOME HERBICIDE** /Metribuzin on muck soil or subsequent crops may be injured. Refer to the tank mix partner label for specific regions/ areas of use.

Rotation crops such as onions, celery, peppers, cole crops, lettuce, spinach, sugar beets, table beets, turnips, pumpkin, squash, cucumbers, melons, tobacco and rapeseed are sensitive to **EPITOME HERBICIDE** /Metribuzin, and may be injured if planted in **EPITOME HERBICIDE** /Metribuzin treated soil both during the year of application and the following crop year.

Applications of **EPITOME HERBICIDE** /Metribuzin made at rates above those recommended may result in burning, yellowing or stunting of the crop. If heavy rains occur soon after application, plant injury may result, especially in poorly drained areas where water may stand for several days.

Uneven application such as swath overlapping, variable tractor speed, spraying on turns, etc. may result in crop injury and increase chance of injury to rotation crops.

Do not graze or feed forage from treated fields to livestock. Read both the **EPITOME HERBICIDE** and Metribuzin (LEXONE DF HERBICIDE DISPERSIBLE GRANULES, SENCOR 75 DF) labels carefully before using and observe all precautions and limitations on labelling of all products.

**POTATOES - DRAG-OFF (Come-up, Weeding Time)** - Apply and incorporate 4.1 to 8.1 litres **EPITOME HERBICIDE** per hectare. The field must first be "DRAGGED-OFF" followed by **EPITOME HERBICIDE** application and incorporation. Use spike-tooth harrows or cultivation equipment for incorporation.

**POTATOES - POST-EMERGENCE** - Apply and incorporate 4.1 to 5.3 litres **EPITOME HERBICIDE** per hectare at next to the last or at time of last cultivation. If soil surface is not dry and loose, cultivate before application. Do not apply within 45 days of harvest.

**POTATOES - SPRINKLER IRRIGATION WATER** - Meter 4.1 to 5.3 litres **EPITOME HERBICIDE** per hectare into the first irrigation water immediately after clean cultivation. The best weed control can be obtained by using one of the pre-plant (fall or spring) or preemergence (drag-off) **EPITOME HERBICIDE** applications, followed by the **EPITOME HERBICIDE** irrigation application. Do not apply within 45 days of harvest.

**MIXING AND APPLICATION**

Pour the recommended amount of **EPITOME HERBICIDE**, and/or TREFLAN LIQUID EC HERBICIDE, RIVAL EMULSIFIABLE CONCENTRATE LIQUID HERBICIDE into the spray tank during the filling operations. Apply in 100 or more litres of water per hectare using a properly calibrated, low-pressure sprayer having good agitation. The soil should be well worked and dry enough to permit good soil mixing (incorporation). When applying the **EPITOME HERBICIDE** /Metribuzin tank mix use 200 - 300 litres of water per hectare.

**INCORPORATION DIRECTIONS**

**EPITOME HERBICIDE** and **EPITOME HERBICIDE** /Metribuzin, **EPITOME HERBICIDE** /Trifluralin, **EPITOME HERBICIDE** /Ethalfluralin tank mixes must be incorporated into the soil immediately to prevent loss of the herbicide. Whenever possible, application and incorporation should be done in the same operation. The following equipment and recommended working depths are suggested for soil mixing (incorporation) before planting:

TYPE OF EQUIPMENT	WORKING DEPTH*	MINIMUM SPEED
S Type (Danish) Cultivator **	10-15 cm	8-13 km/hr
C Type Cultivator with overlapping sweeps **	10-15 cm	9.5+ km/hr
Tandem Disks (max 45cm spacing between disks) ***	10-15 cm	6.5-9.5 km/hr
Power Driven Cultivator****	5-7.5 cm	ANY

\* Shallow incorporation with implements set to cut less than 5.0 centimetres may result in erratic weed control.

\*\* Recommended for lighter soils in good tilth only

\*\*\* For more thorough mixing, (perennial weeds and in heavier soils) cross disk a second time at maximum 10 cm depth.

\*\*\*\* For control of shallow, annual weeds only.

**SPRINKLER IRRIGATION APPLICATION POST-PLANTING AND ESTABLISHED CROPS**

Meter **EPITOME HERBICIDE** into the sprinkler irrigation water using a metering device that will introduce a constant flow into the water. For centre pivot, straight line and solid set sprinkler systems, meter the **EPITOME HERBICIDE** into the water during the entire period using sufficient water to penetrate to a depth of 7.5 to 10 centimetres. Time this **EPITOME HERBICIDE** application to ensure that proper penetration of the herbicide corresponds with the end of the irrigation period.

Flush the lines and then turn the water off promptly. Consult the "Directions For Use" section on this label for proper timing of application for each crop for which irrigation application is recommended. A diagram for water run applications can be found in Appendix II of this label.

Tailwater (run-off water) from sprinkler irrigation should be re-circulated or used only on other crops which are registered for this type of application.

Do not apply this product through any other type of irrigation system.

Do not apply when wind speed causes non-uniform distribution and/or favours drift beyond the area intended for treatment.

Do not make sprinkler applications when wind velocities are over 8 km/h.

Do not apply by irrigation if treated area is within 100 metres of residential areas and parks.

To prevent accidental contamination of the water source when the pump stops, a shut-off device which will prevent backflow of the chemical must be employed.

### **CULTURAL PRACTICES FOLLOWING APPLICATION**

To obtain a maximum period of weed control, seeding should be done as soon as possible after application.

Since **EPITOME HERBICIDE** is not persistent in the soil, susceptible weeds germinating later during the growing season may not be controlled. Shallow cultivation or the use of post emergent herbicides may be required to control weeds that escape **EPITOME HERBICIDE** treatment or are not control by **EPITOME HERBICIDE** (i.e. tolerant broadleaves and non susceptible weed species). Cultivation should not exceed the depth of herbicide incorporation.

### **RESISTANCE-MANAGEMENT RECOMMENDATIONS**

For resistance management, **EPITOME HERBICIDE** is a Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to **EPITOME HERBICIDE** and other Group 15 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

- Where possible, rotate the use of **EPITOME HERBICIDE** or other Group 15 herbicides within a growing season (sequence) or among growing seasons with different herbicide groups that control the same weeds in a field.
- Use tank mixtures with herbicides from a different group when such use is permitted. To delay resistance, the less resistance-prone partner should control the target weed(s) as effectively as the more resistance-prone partner.
- Herbicide use should be based on an integrated weed management program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical control methods), cultural (for example, higher crop seeding rates; precision fertilizer application method and timing to favour the crop and not the weeds), biological (weed-competitive crops or varieties) and other management practices.
- Monitor weed populations after herbicide application for signs of resistance development (for example, only one weed species on the herbicide label not controlled). If resistance is suspected, prevent weed seed production in the affected area if possible, by an alternative herbicide from a different group. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields and planting clean seed.
- Have suspected resistant weed seeds tested by a qualified laboratory to confirm resistance and identify alternative herbicide options.

- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- For further information or to report suspected resistance, contact an ACETO LIFE SCIENCES representative at 516-627-6000.

All products listed are registered trademarks of their respective companies.



## APPENDIX I - EPITOME HERBICIDE with Fluid Fertilizer

### PROCEDURE FOR TESTING THE COMPATIBILITY OF EPITOME HERBICIDE WITH FLUID FERTILIZERS.

The following procedure is suggested for determining whether **EPITOME HERBICIDE** may be combined with a specific fluid fertilizer for spray tank application.

#### Materials Required:

1. **EPITOME HERBICIDE**
2. Fluid fertilizer to be used.
3. Adjuvant for fertilizer tank mix; Unite\* or equivalent. The adjuvant that provides the best emulsification depends on the specific fertilizer under consideration.
4. Two one-litre, wide-mouth glass jars with lids or stoppers.
5. Graduated pipet or cylinder.
6. Measuring cup (250 mL).

#### PROCEDURE:

1. Pour 500 mL of the fluid fertilizer into each of the litre jars.
2. Add adjuvant to one of the jars and mix (see next rate table).
3. Add the **EPITOME HERBICIDE** to both jars (see next rate table).
4. Close both jars with lids or stoppers and mix the contents by turning the jars upside down ten times.
5. Inspect the surface and body of the mixtures;
  - A) Immediately after completing the jar inversions,
  - B) After allowing the jars to stand quietly for 30 minutes,
  - C) And then again after turning the jars upside down ten times.

\* Unite, Hopkins Agricultural Chemical Co., Madison, Wisconsin.

If a uniform mix cannot be made, the mixture should not be used. If either mixture remains uniform for 30 minutes, the combination may be used. Should either mixture separate after 30 minutes, but readily remix uniformly with ten jar inversions, the mixture can be used if adequate agitation is maintained in the tank. If the mixture with the adjuvant is satisfactory, but the one without adjuvant is not, be sure to use the adjuvant in the spray tank.

Add the adjuvant first to the fluid fertilizer at a rate of 375 mL per 100 litres of fluid fertilizer; foaming can be minimized by using moderate agitation.

Even though found to be compatible, constant agitation is necessary to keep the **EPITOME HERBICIDE** evenly mixed with the fluid fertilizer.

If non-dispersible oil, sludge or clumps form in the mixtures, the combination should not be used.

**Compatibility Test Table for EPITOME HERBICIDE and Adjuvant\* with the Fluid Fertilizer**

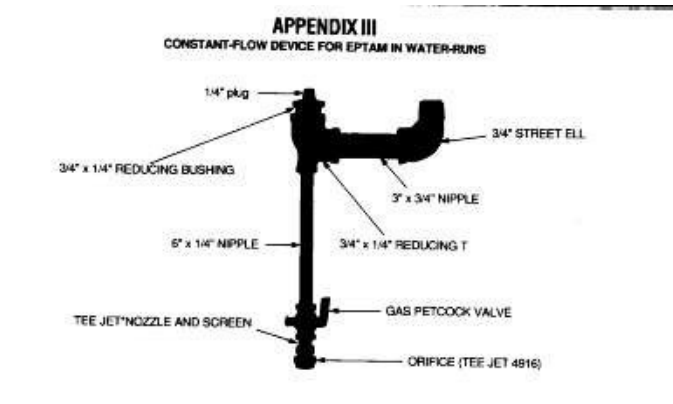
Litres of Fluid Fertilizer to be applied per Hectare	mL of <b>EPITOME HERBICIDE</b> ** to be added to 500 mL of Fertilizer
L	ML
100	23.9
150	16.2
200	11.9

250	9.5
300	8.1
400	6.2

\* A typical adjuvant rate of use is 375 mL per 100L of fluid fertilizer. Two (2) millilitres of adjuvant should be added to 500 mL of fluid fertilizer in order to equal rate of 375 mL per 100 litres.

\*\* Based on a rate of 4.8 litres of **EPITOME HERBICIDE** per hectare in the fluid fertilizer volumes indicated, adjust amount of pesticide proportionately to correspond with intended field rate (e.g. for field rate of 8.6.0 litres of **EPITOME HERBICIDE** in 250 litres fluid fertilizer per hectare, add 17.2 mL (8.6L/5L x 10mL) **EPITOME HERBICIDE** to each jar containing 500 mL of fluid fertilizer for compatibility testing purposes).

## APPENDIX II - Constant Flow Device Diagram



## FLOW RATES FOR VARIOUS Tee Jet\* ORIFICES (4916)\*\*

Tee Jet Orifice	mL Per Minute	Kilograms per hour	Approximate Time (hrs.)	
			4 Litres	20 Litres
.008	.89	.050	74.92	374.6
.009	1.48	.084	45.04	225.2
.010	2.96	.168	22.52	112.6
.012	3.7	.211	18.00	90.0
.014	7.0	.399	9.52	47.6
.015	7.9	.450	8.44	42.2
.016	8.9	.507	7.48	37.4
.018	12.6	.718	5.28	26.4
.020	15.7	.895	4.24	21.2
.022	20.7	1.18	3.24	16.2
.024	24.4	1.39	2.72	13.6
.026	32.5	1.85	2.04	10.2
.028	37.6	2.14	1.76	8.8
.030	41.4	2.36	1.60	8.0
.032	44.4	2.53	1.52	7.6
.034	50.3	2.86	1.32	6.6
.035	54.7	3.12	1.24	6.2
.037	65.2	3.71	1.04	5.2
.039	75.4	4.30	0.88	4.4
.041	85.8	4.89	0.76	3.8
.043	94.8	5.40	0.72	3.6
.045	105	5.99	0.64	3.2
.047	115.4	6.58	0.56	2.8
.049	125.8	7.17	0.52	2.6

.051	133.2	7.59	0.50	2.5
.053	143.5	8.18	0.48	2.4
.054	148	8.44	0.44	2.2
.055	158	9.01	0.42	2.1
.057	167	9.52	0.40	2.0
.059	185	10.55	0.36	1.80
.061	191	10.89	0.35	1.74
.063	200	11.41	0.32	1.6
.065	212	12.09	0.31	1.56
.067	223	12.72	0.30	1.48
.070	240	13.69	0.28	1.40

\* Registered trademark of Spraying Systems Co.

\*\* Figures were taken at 16.8°C and are approximate. Be sure occasionally to measure flow in the field to make certain you have the correct orifice and because rates vary with temperature. (Flow on a 0.037 orifice increases from 65.1 mL at 16.8°C to 71.0 mL at 33.6°C.). Use a 300 mesh screen on orifice sizes below .014.