

Container Label

<b>GROUP</b>	<b>5</b>	<b>HERBICIDE</b>
<b>GROUP</b>	<b>15</b>	<b>HERBICIDE</b>

## **STRIM MTZ**

HERBICIDE

Emulsifiable Concentrate

FOR USE IN SOILS WITH AN ORGANIC MATTER CONTENT OF 1-10%  
STRIM MTZ Herbicide provides Annual Grass and Broadleaf Weed control

AGRICULTURAL

### **ACTIVE INGREDIENTS:**

S-Metolachlor\* ..... 405 g/L  
\*and R-enantiomer  
Metribuzin ..... 135 g/L

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

**CAUTION - EYE IRRITANT**

REGISTRATION NO.: 33753 PEST CONTROL PRODUCTS ACT

NET CONTENTS: **1L - Bulk**

UPL NA Inc.  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406, USA  
1-800-438-6071

## **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.

## **FIRST AID**

**IN CASE OF POISONING**, contact a physician or a poison control centre **IMMEDIATELY**. 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. 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 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 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.

## **TOXICOLOGICAL INFORMATION**

If swallowed, there is no specific antidote. Treat symptomatically. One of the active ingredients in this product, metribuzin, may cause breathing difficulties and sedation. This product contains petroleum distillates. Vomiting may cause aspiration pneumonia.

## **PRECAUTIONS**

KEEP OUT OF REACH OF CHILDREN.

Harmful if swallowed. May cause eye irritation. Avoid contact with eyes and skin.

Do not contaminate food, feed, domestic or irrigation water supplies, lakes, streams and ponds.

Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes during mixing, loading, application, clean-up and repair. Gloves are not required during application within a closed cab. In addition, wear protective eyewear (goggles or face shield) during mixing, loading, clean-up and repair. If ventilation is not adequate during mixing, loading, clean-up and repair, wear a respirator with a NIOSH-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH-approved canister approved for pesticides.

Do not eat, drink, smoke or apply cosmetics in areas where there is potential for exposure to this product. Wash hands and face with soap and warm water before eating, drinking, chewing gum, using tobacco or using the toilet. 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. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wear freshly laundered clothes daily. Store and wash all protective clothing separately from household laundry. Wash clothing in detergent and hot water before reuse.

It is recommended that this product not be applied in a way that will contact workers or other persons, either directly or through drift. Only handlers wearing personal protective equipment may be in the area 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.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

**CAUTION:** Do not graze treated immature crops or cut for hay. Sufficient data are not available to support such uses. Make only one application per season.

DO NOT apply by aerial application equipment.

Do not exceed rates recommended on this label.

## **ENVIRONMENTAL PRECAUTIONS**

This product contains an active ingredient and aromatic petroleum distillates, which are toxic to aquatic organisms.

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

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 reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

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

## **STORAGE**

Store this product away from food or feed.

## **DISPOSAL**

### **Unwanted, unused 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 clean-up of spills.

### **FOR RECYCLABLE CONTAINERS:**

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

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

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

### **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 use this container for any other purpose.

***IN CASE OF EMERGENCY INVOLVING A MAJOR SPILL, FIRE OR POISONING  
CALL 1-800-424-9300 (CHEMTREC)***

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BOOKLET

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## **PRODUCT INFORMATION**

STRIM MTZ Herbicide is specially designed for soybean and potato growers in soils with an organic matter content of 1-10%. STRIM MTZ Herbicide provides early season residual control of troublesome weeds. STRIM MTZ Herbicide should not be used in soybeans or potatoes growing on coarse soils with organic matter content of less than 1% or greater than 10%.

### **WEEDS CONTROLLED:**

#### **Grass Weeds:**

Barnyard grass  
Crab grass  
Fall panicum  
Giant foxtail  
Green foxtail



Johnson grass (seedling)  
Witch grass  
Yellow foxtail

**Broadleaf Weeds:**

Common chickweed  
Common ragweed  
Dandelion (seedling)  
Eastern black nightshade<sup>1</sup>  
Green smartweed  
Lady's-thumb  
Lamb's-quarter  
Redroot pigweed<sup>2</sup>  
Velvetleaf  
Wild mustard  
Yellow nutsedge<sup>3</sup> (suppression only)

<sup>1</sup> Pre-emergent treatments sometimes give better control than pre-plant incorporated.

<sup>2</sup> Some naturally occurring triazine tolerant biotypes of these weeds may not be controlled by STRIM MTZ Herbicide.

<sup>3</sup> Pre-plant incorporated treatment only. Extended periods of dry hot weather following application may result in reduced nutsedge control.

**DIRECTIONS FOR USE**

When applied as a tank-mix combination, read and observe all label directions, including rates, personal protective equipment, restrictions and precautions for each product used in the tank-mix. Always use in accordance with the most restrictive label restrictions and precautions.

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.

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.

DO NOT apply using aerial application equipment.

**Spray Buffer Zones:**

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.

	<b>Spray Buffer Zones (metres) required for the protection of:</b>		
<b>Method of Application</b>	<b>Crop</b>	<b>Aquatic Habitat</b>	<b>Terrestrial Habitat</b>
Field sprayer	All field crops	29	10

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 labels for those tank mix partners.

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

#### **ACTIVATION**

In order to activate STRIM MTZ a small amount of rainfall or irrigation is required following application. In areas of low rainfall, follow pre-emergence application by light irrigation of 0.7 to 1.27 cm of water. Do not apply heavy irrigation immediately after application. As with many surface-applied herbicides, weed control and crop tolerance may vary with rainfall and/or soil texture.

#### **SOYBEAN – Eastern Canada Only**

<b>TIMING</b>	<b>WEEDS CONTROLLED</b>	<b>STRIM MTZ HERBICIDE RATE<sup>1</sup></b>	<b>RATE OF TANK MIX PARTNER<sup>2</sup>:</b>	<b>COMMENTS</b>
Preemergent	Labelled weeds	2.9 – 3.9 L/ha	n/a	Injury to soybeans or reduced weed control may occur when STRIM MTZ Herbicide is applied to soils with a pH of 7.5 or higher.  Soybean seeds must be planted at least 4 cm below the soil surface or crop injury may result. Do not apply if soybeans have emerged.
	Labelled weeds plus emerged annual and perennial weeds	2.9 – 3.9 L/ha	900 g ae/ha glyphosate (present as potassium salt, isopropylamine salt, or di-ammonium salt) <sup>3</sup>	
Pre Plant Incorporated	Labelled weeds	2.9 – 3.9 L/ha	n/a	VARIETIES: Consult your chemical dealer, or your seed supplier for information on the metribuzin tolerance of soybean varieties, prior to STRIM MTZ Herbicide use.

<sup>1</sup> Use the higher rate of STRIM MTZ Herbicide for control of heavier weed populations.

<sup>2</sup> Consult the label of the product(s) to be tank mixed with STRIM MTZ Herbicide for specific instructions regarding broadleaf weeds, soil-type variations and rotational crop, grazing and other restrictions.

<sup>3</sup> Some perennial weeds may not be controlled with this rate of glyphosate. Consult the glyphosate labels regarding perennial weeds controlled.

## POTATO

TIMING	WEEDS CONTROLLED	STRIM MTZ HERBICIDE RATE <sup>1</sup>	COMMENTS
Pre-emergence	Labelled weeds	2.9 – 3.9 L/ha	<p>Do not use on the varieties Belleisle, Tobique or Superior as crop injury may result.</p> <p>Potato varieties may vary in their tolerance to STRIM MTZ Herbicide.</p> <p>When using STRIM MTZ Herbicide for the first time on a particular variety, always confirm tolerance before using on a field scale.</p> <p>Do not apply at ground crack or if potatoes have emerged.</p> <p>Do not harvest within 60 days of application.</p> <p>Apply after hilling. Hilling operations made after application of STRIM MTZ Herbicide will reduce weed control.</p> <p>One application per year.</p>
Pre-plant Incorporation	Labelled weeds	2.9 – 3.9 L/ha	Do not apply more than 3 L/ha in Western Canada.

<sup>1</sup> Use the higher rate of STRIM MTZ Herbicide for control of heavier weed populations.

### APPLICATION INFORMATION

- Applications of STRIM MTZ Herbicide 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. Soybean seeds must be planted at least 4 cm below the soil surface.
- VARIETIES: Consult your chemical dealer, or your seed supplier for information on the metribuzin tolerance of soybean varieties, prior to STRIM MTZ Herbicide use.
- DO NOT USE STRIM MTZ HERBICIDE ON SOILS WITH AN ORGANIC MATTER CONTENT OF LESS THAN 1% OR GREATER THAN 10%.
- If drought conditions persist after a pre-emergent application, annual weed control may not be adequate.
- Do not apply more than once per season regardless of the timing of application.
- Uneven application such as swath overlapping, variable tractor speed, spraying on turns, etc., may result in crop injury and increase chances of injury to succeeding crops. After harvest, tillage practices that provide thorough mixing of the soil may be helpful in reducing the chance of injury to succeeding crops.

- Apply specified dosage as pre-emergence broadcast spray in 150 to 300 L of water per hectare and as pre-plant incorporated in at least 100 L of water per hectare.
- DO NOT apply using aerial application equipment.

#### **PRE-PLANT INCORPORATION:**

- Avoid deep incorporation since reduced weed control and/or crop injury may result.
- Incorporate with implements, which provide uniform, shallow incorporation (example: finishing disk, harrow, rolling cultivator, etc.).
- A single incorporation is satisfactory, however a second incorporation will generally improve herbicide soil blending and improves weed control (particularly on coarse soils).
- On sandy soils, heavy rainfall following an incorporated treatment may cause leaching of the herbicide.

#### **PRE-EMERGENT APPLICATION:**

- Apply evenly to a firm, lump-free seed bed.
- Rain is required within 10 days or a shallow cultivation or use of a rotary hoe is necessary.
- Pre-emergent applications may also be made in reduced tillage, ridge tillage, and no-till systems.
- Minimize exposure of untreated soil when cultivating or fertilizing.
- Dry weather conditions as well as excessive rainfall or irrigation following application may reduce weed control.
- For improved burn down of **small** emerged annual weeds, the following additives may be used:  
Fertilizer, 28-0-0, or 10-34-0 at 5% v/v  
Crop oil concentrate at 1% v/v  
Non-ionic surfactant at 0.1% v/v
- If annual weeds are larger or perennial weeds are present use glyphosate herbicide in the tank mix (See preceding table).

#### **MIXING AND SPRAYING INSTRUCTIONS**

- Spray Pressure - 200 - 300 kPa
- Keep bypass line at bottom of tank to minimize foaming.
- Use screens no finer than 0.3 mm (50 mesh) in nozzle and in-line strainers (felt filters, or smaller screens will become clogged). A 16 mesh screen is recommended for the filter on the inlet side of the pump.
- Nozzle tips should be no finer than 6502, 8002 or TK 2.
- Do not use airblast or other high pressure spray equipment to apply STRIM MTZ HERBICIDE.
- VIGOROUS, CONTINUOUS AGITATION IS ESSENTIAL FOR PROPER MIXING THROUGHOUT FILLING AND SPRAYING OPERATIONS. RETURN LINE AGITATION IS NOT SUFFICIENT. SPARGE TUBE, JET OR MECHANICAL AGITATION IS REQUIRED. AGITATION SHOULD BE SUFFICIENT TO CREATE A RIPPLING OR ROLLING ACTION ON THE SURFACE. A PUMP MUST BE OF SUFFICIENT CAPACITY TO PROVIDE ADEQUATE VOLUME THROUGH THE BY-PASS AND/OR JET AGITATION SYSTEM TO PROVIDE SUFFICIENT AGITATION EVEN WHILE THE BOOMS ARE OPERATING.
- The sprayer should be checked frequently during application to be sure it is working properly and delivering a uniform spray pattern.

- Avoid over-laps that will increase dosages above those recommended.

Before mixing STRIM MTZ Herbicide and its labelled tank-mixtures, examine the spray equipment making sure it is completely clean and free of rust or corrosion. To ensure the equipment is free of any residues from previously used pesticides, flush lines with clean water or recommended detergents. Use an approved method for disposing of rinse water.

Refer to the other product label for pertinent recommendations regarding mixing procedures. The proper mixing sequence for STRIM MTZ Herbicide and recommended tank-mixtures is as follows:

1. Fill sprayer 1/4 full of carrier. Start gentle agitation.
2. Add other dry flowable or wettable granule tank-mix partners, if applicable, and agitate thoroughly.
3. Add liquid STRIM MTZ Herbicide and continue to agitate thoroughly.
4. Fill tank 9/10 full of carrier and add solution tank-mix partners, if applicable.
5. Top off tank with carrier, maintain agitation and spray.
6. Do not let stand without agitation.
7. **At the end of each spray day, rinse out the tank and sprayer lines with water.**

STRIM MTZ Herbicide and all registered mixtures should be kept agitated once mixed and then sprayed out immediately. Do not allow mixtures to stand for prolonged periods of time. Water quality, pH, temperature and/or other components of the mixture may affect how long the mixture can stand before application.

## **SPRAYER CLEANUP**

Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops. Drain any remaining spray solution of STRIM MTZ Herbicide from the spray tank and discard in non-crop areas away from water supplies. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of 250 mL/100 L of water. Recycle this mixture through the equipment for 5 minutes and spray out. Repeat this procedure twice. Fill the spray tank with clean water, recycle for 5 minutes, and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of the spray tank, nozzles or spray rig.

## **ROTATIONAL CROP INFORMATION**

- Rotation crops such as onions, celery, peppers, Cole crops, lettuce and spinach, sugar beets, table beets and turnips, pumpkin and squash, cucumbers and melons, tobacco, and non-triazine tolerant canola (rapeseed) are sensitive to STRIM MTZ Herbicide and may be injured if planted in soil treated with STRIM MTZ Herbicide during the year of application or the following crop year.
- Fall seeded or cover crops such as wheat, oats, and rye may be injured when seeded within the same season as the application of STRIM MTZ Herbicide.

## **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that the components in STRIM MTZ Herbicide contain both a Group 5 and a Group 15 herbicide. Any weed population may contain or develop plants naturally resistant to Group 5 and/or Group 15 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same fields. 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 STRIM MTZ Herbicide or other Group 5 and 15 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 Company representatives at 1-800-438-6071.

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