

DATAPAK

GROUP	5	HERBICIDE
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**ATRAZINE 480**

HERBICIDE

COMMERCIAL

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

GUARANTEE:

ATRAZINE 451 g/L

Related Triazines 29 g/L

REGISTRATION NO. 20997

PEST CONTROL PRODUCTS ACT

Liquid Herbicide for Selective Weed Control in corn.

UNITED AGRI PRODUCTS CANADA INC.

789 Donnybrook Drive

Dorchester, Ontario

N0L 1G5

NET CONTENTS: 10L

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**GENERAL INFORMATION:**

ATRAZINE 480 provides selective control of broadleaf weeds and wild oats in corn. This product may be applied before or after weeds emerge.

**RESISTANCE MANAGEMENT RECOMMENDATIONS:**

For resistance management, ATRAZINE 480 is a Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to ATRAZINE 480 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 ATRAZINE 480 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 Technical Service at 1-800-265-4624 or at [www.uap.ca](http://www.uap.ca).

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**WEEDS CONTROLLED:**

Wormseed Mustard	Wild Buckwheat
Wild Mustard	Lamb's-quarters
Common Purslane	Redroot Pigweed
Ragweed	Volunteer Clover
Smartweed	Wild Oats
Lady's-Thumb	

NOTE: Some naturally occurring triazine tolerant biotypes of the above listed broadleaf weeds may not be controlled by atrazine alone. Refer to specific recommendations in the tank mix section of this label or consult your local agricultural authority.

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**TIMING OF APPLICATION:**

Can be applied:

- Pre-plant incorporated (PPI)
- Pre-emergence
- Post-emergence

in either conventional tillage or minimum tillage programs.

If weeds escape a ppi or pre-emergence application, an additional post-emergence application may be necessary. Do not make more than one reapplication per year and only in the spring.

CAUTION: Do not graze or cut for fodder, treated immature crops. (In the case of corn, immature means before ear emergence). There are not sufficient data available to support such use.

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**LIQUID FERTILIZERS (CORN):**

For pre-plant incorporated and pre-emergence application, nitrogen solutions or complete Liquid Fertilizers may replace the water as a carrier.

**CAUTION:** Do not apply after the corn has emerged as there is danger of Liquid Fertilizer causing crop injury. If there is any doubt about compatibility, check by mixing a small amount of ATRAZINE 480 with the Liquid Fertilizer.

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**DRY BULK GRANULAR FERTILIZERS:**

Many dry bulk granular fertilizers may be impregnated with ATRAZINE 480 or ATRAZINE 480 plus DUAL II Magnum as a pre-plant incorporated application to control weeds in corn.

Prepare the herbicide/fertilizer mixtures by using a closed mix/load system. Spray the herbicide(s) uniformly onto the fertilizer.

If the herbicide/fertilizer mixture is too wet, the use of a highly absorptive powder such as Microcel E, diatomaceous earth or finely powdered clay is recommended. Generally less than 2% by weight of absorptive powder will be needed.

For best results, apply ATRAZINE 480 or ATRAZINE 480 plus DUAL II Magnum/fertilizer mixtures uniformly to the soil with properly calibrated equipment immediately after blending and incorporate according to label directions.

**NOTE:** Apply a minimum of 225 kg per hectare of dry granular fertilizer impregnated with recommended rates of herbicide. **Do not impregnate ATRAZINE 480 or ATRAZINE 480 plus DUAL II Magnum onto nitrate fertilizers, super phosphates or limestone.**

For workers incorporating atrazine into dry bulk fertilizers, the following conditions must be met:

- This activity is restricted to commercial facilities (to prohibit on-farm impregnation).
- The facilities must employ a closed mix/load system.
- A maximum of 1500 kg active ingredient can be incorporated per day.
- This activity must occur for no more than 30 days per year.

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**ATRAZINE 480 In Oil-Water Emulsions (Post-Emergent Treatment):**

The post-emergent activity of ATRAZINE 480 is increased when applied in an oil-water emulsion. This combination produces satisfactory control of seedling broadleaf weeds up to 10 cm high. Always apply ATRAZINE 480 before the crop reaches 30 cm in height in order to favour degradation during the growing season. The combination of ATRAZINE 480 in oil-water emulsions has been particularly useful following periods of hot, dry weather, when weeds are more difficult to kill.

NOTE: Some injury to corn can occur with ATRAZINE 480 applied in oil-water emulsions, especially during cold, backward weather. There is no risk of corn injury when ATRAZINE 480 is applied in water alone. Do not add hormone-type weed killers such as 2,4-D, 2-4-DB, MCPA, MCPB and dicamba, or other herbicides, to combinations of oil-water emulsions and ATRAZINE 480. The risk of damage to other vegetation from spray drift is increased with the use of ATRAZINE 480 in an oil-water emulsion. DO NOT APPLY BY AIR.

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**MIXING AND SPRAYING INSTRUCTIONS:**

This product should not be mixed/loaded, within 30 metres of all wells, lakes, streams, ponds or sink holes in order to avoid the potential of well or surface water contamination. Where possible, use a nurse tank to fill your spray tank.

Mixing steps:

- (1) Spray equipment should be thoroughly flushed with clean water before mixing ATRAZINE 480.
  - (2) Fill spray tank 1/2 full with carrier. Engage gentle agitation.
  - (3) Pour in the required amount of wettable powder or wettable granule, if applicable.
  - (4) Fill tank 3/4 full and add the ATRAZINE 480 and other liquid products if applicable.
  - (5) Fill tank 9/10 full and add emulsifiable concentrate, liquid solutions or emulsifiable oils, as required. If adding emulsifiable oils, avoid excessive agitation to prevent mixture from forming a grease-like mass and settling out.
  - (6) Finish filling tank. Maintain gentle agitation during mixing and spraying operations.
  - (7) Do not let stand without agitation.
  - (8) When using a mixture of ATRAZINE 480 and emulsifiable oil, clean tank immediately after use with a strong detergent and clean water.
- Spray pressure 200 - 300 kPa
  - Spray volume - minimum 150 litres per hectare
  - Use 16 mesh suction screen. 50 mesh screens elsewhere on sprayer

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**APPLICATION INFORMATION - CORN**

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**DIRECTIONS FOR USE:**

Apply atrazine at a maximum of 1.5 kg a.i./ha per year either as a pre- or post-emergent application before corn reaches 30 cm in height. Treatments can be made once or twice per year, but the maximum amount of atrazine used in a year cannot exceed 1.5 kg a.i./ha. Atrazine may be applied alone or as a registered tank mix partner. Refer to the tank mix partners for further instructions. Do not harvest within 45 days of application on sweet corn and 60 days for field corn.

**FOR ATRAZINE 480 ALONE, PPI AND PRE-EMERGENCE TREATMENTS:**

SOIL TYPE	RATE OF APPLICATION/HA
light and sandy	2.1 - 3.1* L ATRAZINE 480
loams and clays	3.1 L ATRAZINE 480

\*Use higher rate for heavy weed infestations.

Rainfall is required within 10 days or a shallow cultivation will be necessary.

ATRAZINE 480 may be applied as an overall spray or as a band application. USE PROPORTIONATELY LESS PRODUCT FOR BAND APPLICATION.

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**PREPLANT INCORPORATED TANK MIXES (Silage, Field, Sweet Corn):**

WEEDS CONTROLLED	PRODUCT RATES
Broadleaf Weeds and Wild Oats	2.1 - 3.1 L/ha ATRAZINE 480
Yellow Nutsedge, Annual Grasses, and Broadleaf Weeds	2.1 - 3.1 L/ha + 1.25 - 1.75 L/ha ATRAZINE 480 DUAL II Magnum 1)

1) Eastern Canada Only

If tillage is intended after spraying, do not incorporate ATRAZINE 480 deeper than 5 cm.

CONSULT TANK MIX PARTNER LABELS FOR COMPLETE INSTRUCTIONS AND RESTRICTIONS.

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**PRE-EMERGENT TANK MIXES (Silage, Field, Sweet Corn):**

WEEDS CONTROLLED	PRODUCT RATES
Broadleaf Weeds and Wild Oats	2.1 - 3.1 L/ha ATRAZINE 480
Broadleaf Weeds, Wild Oats & Triazine Tolerant Weeds*	2.1 - 3.1 L/ha + 1.25 L/ha ATRAZINE 480 BANVEL II 1) 2)
Annual Grasses & Broadleaf Weeds	2.1 - 3.1 L/ha + 1.25 - 1.75 L/ha ATRAZINE 480 DUAL II Magnum 2)
Annual Grasses, Broadleaf Weeds & Triazine Tolerant Weeds*	2.1 - 3.1 L/ha + 1.25 L/ha ATRAZINE 480 DUAL II Magnum 1) 2)

\*This tank mix will control triazine tolerant forms of the weeds listed on the BANVEL II label.

CONSULT TANK-MIX PARTNER LABELS FOR COMPLETE INSTRUCTIONS AND RESTRICTIONS.

A firm, level seedbed free from large clumps and surface trash must be prepared to ensure uniform weed control. **Do not use ATRAZINE 480 on loose and rough seedbeds.**

1) APPLY TO FIELD CORN ONLY.

2) Eastern Canada only.

**POST-EMERGENT TANK MIXES (Silage, Field, Sweet Corn):**

<b>WEEDS CONTROLLED</b>	<b>PRODUCT RATES</b>	
Broadleaf Weeds and Wild Oats	2.1 - 3.1 L/ha + ATRAZINE 480	17 L/ha emulsifiable CORN OIL
	2.1 - 3.1 L/ha + ATRAZINE 480	2.75 - 5.5 L/ha XA OIL CONCENTRATE**
Broadleaf Weeds, Wild Oats & Triazine Tolerant Weeds*	2.1 - 3.1 L/ha + ATRAZINE 480	1.25 L/ha BANVEL II 1) 2)
Annual Grasses and Broadleaf Weeds	2.1 - 3.1 L/ha + ATRAZINE 480	1.25 - 1.75 L/ha DUAL II Magnum 2)

\*Tank mix with BANVEL II will control triazine tolerant forms of the weeds listed on their labels.  
CONSULT TANK MIX PARTNER LABELS FOR COMPLETE INSTRUCTIONS AND RESTRICTIONS.

\*\*Rate of XA OIL CONCENTRATE or equivalent depends on water volume used.

Use 300 L water/ha at higher rate

1)APPLY TO FIELD CORN ONLY.

2)Eastern Canada Only

**GENERAL PRECAUTIONS FOR POST-EMERGENT TANK MIX APPLICATIONS WITH ATRAZINE 480**

- ALWAYS APPLY ATRAZINE 480 BEFORE THE CORN REACHES 30 CM IN HEIGHT
- SOME INJURY TO CORN CAN OCCUR WITH ATRAZINE 480 APPLIED IN OIL-WATER EMULSIONS UNDER CROP STRESS CONDITIONS
- USE ONLY CROP OILS OR OIL CONCENTRATES LABELED FOR USE WITH ATRAZINE 480.
- OILS CONTAMINATED WITH WATER OR OTHER MATERIALS CAN CAUSE COMPATIBILITY PROBLEMS, CROP INJURY, OR BOTH.

**WARNING:**

Injury may occur if land treated with ATRAZINE 480 is planted to any crop other than corn in the same season. One year after application there is virtually no hazard to most rotational crops when annual weed label rates are applied. Sugar beets and tobacco are sensitive to ATRAZINE 480 and should not be planted on land treated with ATRAZINE 480 the previous year. When extended periods of dry weather occur during the year of treatment, there can be some injury to succeeding crops such 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. Under conditions of heavy rainfall sufficient to cause erosion, soil containing ATRAZINE 480 may wash to lower areas of land and injury to existing or subsequent crops other than corn may result.

THOROUGH TILLAGE INCLUDING PLOUGHING SHOULD PRECEDE THE PLANTING OF CROPS OTHER THAN CORN. PLOUGH THE LAND FLAT AS OPPOSED TO SETTING THE FURROW ON EDGE. UNEVEN APPLICATION OF ATRAZINE 480 OR APPLICATION IN EXCESS OF RECOMMENDED RATES WILL NOT INJURE CORN BUT MAY RESULT IN THE INJURY OF SUCCEEDING CROPS OTHER THAN CORN.

**PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN. Harmful if swallowed. Avoid contact with eyes or prolonged contact with skin. Avoid inhalation of vapours or spray mist. When applying the product wear chemical resistant gloves, a coverall over a long-sleeved shirt and pants and chemical resistant boots. Additionally, wear chemically resistant gloves, when servicing the sprayer and during cleanup. Persons involved in mixing/loading operations should wear the previously mentioned clothing, chemical resistant gloves and a face shield.

Do not eat, drink or smoke when using product. Wear freshly laundered clothes daily. Wash hands and face before eating, drinking, smoking or using the toilet. Store and wash all protective clothing separately from household laundry. Wash in detergent and hot water before reuse. Avoid contamination of food and feed, domestic or irrigation water supplies, lakes, streams and ponds. Do not apply this product through any type of irrigation system. Use only on labelled crops. Do not apply at rates greater than 3.1 L/ha.

STORE IN A DRY PLACE.

Bulk sites must be diked around and under the bulk tank with an impermeable non-earthen dike. The dike must be large enough to hold and contain 110 percent of the capacity of the largest tank.

**SPRAY DRIFT MANAGEMENT FOR GROUND APPLICATIONS: GENERAL INFORMATION**

Use good pesticide practices and apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and parks is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings used for application. For the protection of non-target habitats, over-spray or drift to any body of water or other environmentally sensitive habitats must be avoided. The interaction of many equipment and weather related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

**GROUND APPLICATION:**

Avoid over-spray or drift to sensitive aquatic habitats. An appropriate buffer zone is required between the downwind point of direct application and the closest edge of sensitive aquatic habitats including sloughs, coulees, ponds, prairie potholes, lakes, rivers, streams, reservoirs and wetlands that are situated on the periphery of the treated area. Do not apply during periods of dead calm or when winds are gusty. For ground spray booms, a buffer zone of 30 m is required for protection of aquatic habitats (as indicated above) when mixing or loading, and 10 m when spraying.

**SPRAYING:**

Protect sprayer operators from drift or mist. Additional information on spray drift management for GROUND APPLICATION is provided in the section "SPRAY DRIFT MANAGEMENT FOR GROUND APPLICATIONS." When low volumes of spray are applied, complete coverage and thorough application are essential for most effective results. Schedule application in accordance with local conditions. Consult your local agricultural authorities for specific use information.

**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., contact 1-866-375-4648 or [www.cropro.org/](http://www.cropro.org/).

**FIRST AID:**

If swallowed, immediately give large quantities of water and induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention or contact a poison control centre immediately. If in eyes splash repeatedly with large amounts of clean water. Obtain medical attention. If on skin, remove contaminated clothing immediately. Wash skin thoroughly with soap and water. If irritation occurs, obtain medical attention. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:**

Medical conditions known to be aggravated: Individuals with known sensitivity to atrazine should not be exposed to this product. Individuals with allergic history or pre-existing dermatitis should use extra care in handling this product.

NOTE TO PHYSICIAN: Atrazine is a s-triazine herbicide. There is no specific antidote. If a large amount has been swallowed and emesis has been inadequate, lavage stomach. A suspension of thirty to fifty grams of activated charcoal can be given for smaller amounts or to absorb the remaining toxicant.

**DISPOSAL:**

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Follow provincial instructions for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the 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 control product is to be used only in accordance with the directions on this label. It is an offence under the *PEST CONTROL PRODUCTS ACT* to use a control product under unsafe conditions.

**NOTICE TO BUYER:**

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

All product names are registered trademarks of their respective companies.