



Atrazine 500

**Flowable Herbicide
AGRICULTURAL**

Flowable Agricultural Herbicide for Selective Weed Control in Corn.

GUARANTEE:

Atrazine	490 g/L
Related Triazines	10 g/L

Contains 1,2-Benzisothiazolin-3-one at 0.02% as a preservative.

READ THE LABEL AND PAMPHLET BEFORE USING

KEEP OUT OF REACH OF CHILDREN

**REGISTRATION NO: 18805
PEST CONTROL PRODUCTS ACT**

NET CONTENTS: 2 X 10 Litres

Est. No. 19713-MS-1

Manufactured By:

Drexel Chemical Company
 P.O. BOX 13327, MEMPHIS, TN 38113-0327
 SINCE 1972

██████████
 Distributed by:
 Cooper Mill Ltd.
 R.R.3, Madoc, Ontario KOK 2K0



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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.

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.

PERSONAL PROTECTIVE EQUIPMENT (PPE): During application, wear chemical-resistant gloves, chemical-resistant boots, and coveralls over a long-sleeved shirt and long pants. During mixing and loading, wear a face shield in addition to chemical-resistant gloves, chemical-resistant boots, and coveralls over a long-sleeved shirt and long pants.

Do not eat, drink, or smoke when using this 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 re-use.

This product should not be mixed/loaded within 30 meters of all wells, lakes, streams, ponds, or sink holes in order to avoid the potential of well or surface water contamination. Do not use this product within 10 meters of the above mentioned water sources. 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. Do not re-use container; destroy when empty. Use only on labelled crops. Do not apply at rates greater than 3.0 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.

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

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/.

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 center immediately. **If in eyes**, splash repeatedly with large amounts of clean water. Obtain medical attention or contact a poison control center. **If on skin**, remove contaminated clothing immediately. Wash skin thoroughly with soap and water. If irritation occurs, obtain medical attention or contact a poison control center.

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

TOXICOLOGICAL INFORMATION

Treat symptomatically.

RECYCLABLE CONTAINER DISPOSAL (10L CONTAINER)

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 Bulk 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.

Disposal of unused, unwanted product

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



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GENERAL INFORMATION:

ATRAZINE 500 provides selective control of broadleaf weeds and Wild oats in Corn and certain broadleaf weeds in triazine tolerant Canola. This product may be applied before or after weeds emerge.

WEEDS CONTROLLED:

Wormseed mustard	Ragweed	Wild buckwheat	Volunteer clover
Wild mustard	Smartweed	Lambsquarters	Wild oats
Common purslane	Ladysthumb	Redroot pigweed	

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.

TIMING OF APPLICATION:

Can be applied: 1) Pre-plant incorporated (PPI), 2) Pre-emergence, or 3) 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.

HERBICIDE RESISTANCE MANAGEMENT RECOMMENDATIONS

For resistance management, Atrazine 500 Flowable Herbicide is a Group 5 herbicide. Any weed population may contain or develop plants naturally resistant to this product 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 this product 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 Drexel Chemical Company at www.drexchem.com.

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 500 with the Liquid Fertilizer.

DRY BULK GRANULAR FERTILIZERS:

Many dry bulk granular fertilizers may be impregnated with ATRAZINE 500 as a pre-plant incorporated application to control weeds in Corn.

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

- The activity is restricted to commercial facilities (prohibit on-farm impregnation).
- The facilities must employ a closed mix/load system.
- A maximum of 1500 kg active ingredient (300 Litres of this product) can be incorporated per day.
- This activity must occur for no more than 30 days per year.

Mixing of atrazine with dry bulk fertilizers must be restricted to commercial facilities.

Prepare the herbicide/fertilizer mixtures by using any commercially used dry bulk fertilizer blender. Spray the herbicide(s) uniformly onto the fertilizer.

If the herbicide/fertilizer mixture is too wet, the use of 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 500/fertilizer mixture 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 500 onto nitrate fertilizers, super phosphates, or limestones.

ATRAZINE 500 In Oil-Water Emulsions (Post-Emergent Treatment):

The post-emergent activity of ATRAZINE 500 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 500 before the Corn reaches 30 cm in height in order to favour degradation during the growing season. The combination of ATRAZINE 500 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 500 applied in oil-water emulsions, especially during cold, backward weather. There is no risk of Corn injury when ATRAZINE 500 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 500. The risk of damage to other vegetation from spray drift is increased with the use of ATRAZINE 500 in an oil-water emulsion.

MIXING AND SPRAYING INSTRUCTIONS:

This product should not be mixed/loaded, or used within 30 meters 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 500.
 - (2) Fill spray tank $\frac{1}{2}$ full with carrier. Engage gentle agitation.
 - (3) Pour in the required amount of wettable powder or wettable granule, if applicable.
 - (4) Fill tank $\frac{3}{4}$ full and add ATRAZINE 500 and other liquid products if applicable.
 - (5) Fill tank $\frac{9}{10}$ 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 500 and emulsifiable oil, clean tank immediately after use with a strong detergent and clean water.
- Spray pressure 200 - 300 kPa
 - Spray volume—minimum 150 liters per hectare
 - Use 16-mesh suction screen. Use 50-mesh screens elsewhere on sprayer.

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 direction 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.

AERIAL APPLICATION:

Do not apply by air.

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 applications in accordance with local conditions. Consult your local agricultural authorities for specific use information.

DIRECTIONS FOR USE:

Apply atrazine at a maximum of 1.5 kg a.i./ha (3 litres of this product per hectare) 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 (3 litres of this product per hectare). 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.

APPLICATION INFORMATION—CORN

FOR ATRAZINE 500 ALONE, PPI AND PRE-EMERGENCE TREATMENTS:

SOIL TYPE	RATE OF APPLICATION/HA
Light and Sandy Loams and Clays	2.0 - 3.0* L ATRAZINE 500 3.0 L ATRAZINE 500

*Use higher rate for heavy weed infestations.

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

ATRAZINE 500 may be applied as an overall spray or as a band application. USE PROPORTIONATELY LESS PRODUCT FOR BAND APPLICATION.

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

WEEDS CONTROLLED	PRODUCT RATES
Broadleaf weeds and Wild oats	2.0 - 3.0 L/ha ATRAZINE 500
Annual Grasses and Broadleaf Weeds	2.2 - 2.7 L/ha ATRAZINE 500 + 4.4 - 5.5 L/ha BLADDEX® Liquid

If tillage is intended after spraying do not incorporate ATRAZINE 500 deeper than 5.0 cm.
CONSULT TANK MIX PARTNER LABELS FOR COMPLETE INSTRUCTIONS AND RESTRICTIONS.

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

WEEDS CONTROLLED	PRODUCT RATES
Broadleaf weeds and Wild oats	2.0 - 3.0 L/ha ATRAZINE 500
Broadleaf weeds, Wild oats and Triazine tolerant weeds*	2.0 - 3.0 L/ha ATRAZINE 500 + 1.25 L/ha BANVEL® II ¹⁾²⁾
Annual grasses and Broadleaf weeds	2.5 - 3.0 L/ha ATRAZINE 500 + 3.75 - 4.75 L/ha BLADDEX LIQUID

* This tank mix will control triazine tolerant forms of the weeds listed on the Banvel 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 500 on loose and rough seedbeds.

¹⁾ DO NOT APPLY TO SWEET CORN.

²⁾ Eastern Canada only.

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

WEEDS CONTROLLED	PRODUCT RATES
Broadleaf weeds and Wild oats	2.0 - 3.0 L/ha + 17 L/ha ATRAZINE 500 emulsifiable crop oil
	2.0 - 3.0 L/ha + 2.75 - 5.5 L/ha ATRAZINE 500 Kornoil Concentrate**
Broadleaf weeds, Wild oats and Triazine tolerant weeds*	2.0 - 3.0 L/ha + 0.6 L/ha ATRAZINE 500 BANVEL II ¹⁾
	2.0 - 3.0 L/ha + 0.85 L/ha ATRAZINE 500 TARGET [®] DS

* Tank mix with Banvel or Target DS will control triazine tolerant forms of the weeds listed on their labels.
CONSULT TANK MIX PARTNER LABELS FOR COMPLETE INSTRUCTIONS AND RESTRICTION.

**Rate of Kornoil concentrate depends on water volume used.

Use 300 L of water/ha at higher rate.

1) DO NOT APPLY TO SWEET CORN.

Caution: Do not mix oils, oil concentrates, surfactants, or hormone-type herbicides with ATRAZINE 500/Bladex.

ALWAYS APPLY ATRAZINE 500 BEFORE THE CORN REACHES 30 CM (12 INCHES) IN HEIGHT.

SOME INJURY TO CORN CAN OCCUR WITH ATRAZINE 500 APPLIED IN OIL-WATER EMULSIONS UNDER CROP STRESS CONDITIONS.

USE ONLY CROP OILS OR OIL CONCENTRATES LABELLED FOR USE WITH ATRAZINE 500.

OILS CONTAMINATED WITH WATER OR OTHER MATERIALS CAN CAUSE COMPATIBILITY PROBLEMS, CROP INJURY, OR BOTH.

WARNING:

Injury may occur if land treated with ATRAZINE 500 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 500 and should not be planted on land treated with ATRAZINE 500 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 500 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 500 OR APPLICATION IN EXCESS OF RECOMMENDED RATES WILL NOT INJURE CORN BUT MAY RESULT IN THE INJURY OF SUCCEEDING CROPS OTHER THAN CORN.

TARGET DS is a registered trademark of Syngenta Crop Protection, Canada, Inc.

BLADEX is a registered trademark of E.I. DuPont Canada Company.

BANVEL is a registered trademark of BASF CANADA.

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