

2000/2001

CO-OP (R) ATRAZINE 480 F

AGRICULTURAL

HERBICIDE

Liquid Herbicide for Selective Weed Control in Corn and triazine
tolerant Canola

NET CONTENTS: 10 litres

GUARANTEE:

atrazine	451 g/L
related triazines	29 g/L

READ THE LABEL AND PAMPHLET BEFORE USING

REGISTRATION NO: 18603
PEST CONTROL PRODUCTS ACT

INTERPROVINCIAL COOPERATIVE LIMITED
P.O. BOX 1050, SASKATOON, SASKATCHEWAN S7K 3M9

MISSISSAUGA MONTREAL MONCTON

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. When applying the product wear a coverall over a long-sleeved shirt and pants and chemical resistant boots. Additionally, wear chemical 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.

This product should not be mixed/loaded within 30 meters of any 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 3.1 L/ha, except for weed control in lowbush blueberries.

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 are not sufficient data available to support such use.

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. 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.

DECONTAMINATION AND DISPOSAL:

1. Thoroughly rinse the emptied container and 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, and the cleanup of spills, contact the regional office of Conservation and Protection, Environment Canada.

For Bulk Containers:

CONTAINER REFILLING AND DISPOSAL: This is a refillable container. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than ATRAZINE 480 F. Reseal and return to an authorized INTERPROVINCIAL COOPERATIVE LTD. bulk site. Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. Check for leaks after filling and before transportation. Do not refill or transport damaged or leaking containers. For information on disposal of unused, unwanted product and the cleanup of spills contact the regional office of Conservation and Protection, Environment Canada. If the container is not being refilled, refer to the label section "DECONTAMINATION AND DISPOSAL".

GENERAL INFORMATION:

ATRAZINE 480 F 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	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.

TIMING OF APPLICATION:

Can be applied:

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

C 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.

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 F with the Liquid Fertilizer.

DRY BULK GRANULAR FERTILIZERS:

Many dry bulk granular fertilizers may be impregnated with ATRAZINE 480 F or ATRAZINE 480 F plus DUAL (R1) as a pre-plant incorporated application to control weeds in corn.

Prepare the herbicide/fertilizer mixture 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 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 F or ATRAZINE 480 F plus DUAL/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 F or ATRAZINE 480 F plus DUAL onto nitrate fertilizers, super phosphates or limestone.

ATRAZINE 480 F In Oil-Water Emulsions (Post-Emergent Treatment): The post-emergent activity of ATRAZINE 480 F 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 F before the corn reaches 30 cm in height

in order to favour degradation during the growing season. The combination of ATRAZINE 480 F 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 F applied in oil-water emulsions, especially during cold, backward weather. There is no risk of corn injury when ATRAZINE 480 F 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 F. The risk of damage to other vegetation from spray drift is increased with the use of Atrazine 480 F in an oil-water emulsion.

MIXING and SPRAYING INSTRUCTIONS:

This product should not be mixed/loaded, or used 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 F.
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 F 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 F and emulsifiable oil, clean tank immediately after use with a strong detergent and clean water.

- C Spray pressure 200 - 300 kPa
- C Spray volume - minimum 150 litres per hectare
- C Use 16 mesh suction screen. 50 mesh screens elsewhere on sprayer.

APPLICATION INFORMATION - CORN

FOR ATRAZINE 480 F ALONE, PPI and PRE-EMERGENCE TREATMENTS:

SOIL TYPE	RATE OF APPLICATION/HA
light and sandy	2.1 - 3.0* L ATRAZINE 480 F
Loams and clays	3.1 L ATRAZINE 480 F

* Use higher rate for heavy weed infestations.
Rainfall is required within 10 days or a shallow cultivation will be necessary.

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

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

WEEDS CONTROLLED	PRODUCT RATES	
Broadleaf Weeds and Wild Oats	2.1 - 3.1 L/ha ATRAZINE 480 F	
Yellow Nutsedge, Annual Grasses and Broadleaf Weeds	2.1 - 3.1 L/ha + ATRAZINE 480 F	2.0 - 2.75 L/ha DUAL 960 E
	2.1 - 3.1 L/ha + ATRAZINE 480 F	5.5 - 8.5 L/ha SUTAN + 8 E (R2)
Annual Grasses and Broadleaf Weeds	2.1 - 3.1 L/ha + ATRAZINE 480 F	4.25 - 5.5 L/ha SUTAN + 8 E
	2.3 - 2.75 L/ha + ATRAZINE 480 F	4.4 - 5.5 L/ha BLADEX (R3) LIQUID
	2.3 - 2.75 L/ha + ATRAZINE 480 F	2.65 - 3.35 kg/ha BLADEX 80 WP
	2.3 - 2.75 L/ha + ATRAZINE 480 F	2.35 - 3.0 kg/ha BLADEX NINE-T

If tillage is intended after spraying, do not incorporate ATRAZINE 480 F 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	2.1 - 3.1 L/ha ATRAZINE 480 F	
Broadleaf Weeds, Wild Oats & Triazine Tolerant Weeds *	2.1 - 3.1 L/ha ATRAZINE 480 F	+ 1.25 L/ha BANVEL (R4) + 480 1) 2)
Annual Grasses & Broadleaf Weeds	2.1 - 3.1 L/ha ATRAZINE 480 F	+ 2.0 - 2.75 L/ha DUAL 960 E
Annual Grasses, Broadleaf Weeds & Triazine Tolerant Weeds *	2.1 - 3.1 L/ha ATRAZINE 480 F	+ 2.0 - 2.75 L/ha DUAL 960 E
		+ 1.25 L/ha BANVEL 480 1) 2)
Annual Grasses and Broadleaf Weeds	2.6 - 3.1 L/ha ATRAZINE 480 F	+ 3.75 - 4.75 L/ha BLADEX LIQUID
	2.6 - 3.1 L/ha ATRAZINE 480 F	+ 2.25-2.75 kg/ha BLADEX 80 WP
	2.6 - 3.1 L/ha ATRAZINE 480 F	+ 2.0 - 2.5 kg/ha BLADEX NINE-T
Annual Grasses, Broadleaf Weeds and Triazine Tolerant Weeds*	2.3 L/ha ATRAZINE 480 F	+ 2.5 kg/ha BLADEX NINE-T
		+ 1.25 L/ha BANVEL 480 1) 2)

*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 480 F 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	2.1 - 3.1 L/ha ATRAZINE 480 F	+ 17 L/ha emulsifiable corn oil
	2.1 - 3.1 L/ha ATRAZINE 480 F	+ 2.75 - 5.5 L/ha Kornoil Concentrate**
Broadleaf Weeds, Wild Oats and Triazine Tolerant Weeds*	2.1 - 3.1 L/ha ATRAZINE 480 F	+ 0.6 L/ha BANVEL 480 1)
	2.1 - 3.1 L/ha ATRAZINE 480 F	+ 0.85 L/ha KILMOR (R1)
Annual Grasses and Broadleaf Weeds	2.1 - 3.1 L/ha ATRAZINE 480 F	+ 2.0 - 2.75 L/ha DUAL 960 E
	2.3 L/ha ATRAZINE 480 F	+ 2.25 - 2.75 kg/ha BLADEX 80 WP
	2.3 L/ha ATRAZINE 480 F	+ 2.0 - 2.5 kg/ha BLADEX NINE-T
Annual Grasses, Broadleaf Weeds and Triazine Tolerant Weeds*	2.3 L/ha ATRAZINE 480 F	+ 2.0 - 2.5 kg/ha BLADEX NINE-T + 0.6 L/ha BANVEL 480 1)

* Tank mix with BANVEL or KILMOR will control triazine tolerant forms of the weeds listed on their labels.

CONSULT TANK MIX PARTNER LABELS FOR COMPLETE INSTRUCTIONS AND RESTRICTIONS.

** Rate of Kornoil concentrate depends on water volume used. Use 300 L water/ha at higher rate.

- 1) DO NOT APPLY TO SWEET CORN
- 2) DO NOT USE SUSPENSION FORMULATIONS OF BLADEX (CYANAZINE) POST-EMERGENCE DUE TO RISK OF CROP INJURY.

CAUTION: Do not mix oils, oil concentrates or surfactants or hormone-type herbicides with ATRAZINE 480 F/BLADEX.

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

WEED CONTROL IN TRIAZINE TOLERANT CANOLA - EASTERN CANADA ONLY:

NOTE: Use ATRAZINE 480 F on Triazine Tolerant Canola: pedigree seed only.

WEEDS CONTROLLED:

Non-triazine resistant varieties of: wild mustard
Lamb's-Quarters

APPLICATION TIMING:

ATRAZINE 480 F may be applied as a PRE-EMERGENCE application or as a POST-EMERGENCE application in an oil-water emulsion when the Triazine Tolerant Canola is at the 2-leaf stage (3 cm in height).

APPLICATION RATES:

Pre-emergent:

SOIL TYPE	RATES PER HECTARE
Light and Sandy	2.3 litres
Loam and Clay	3.1 litres

Post-Emergent:

Apply 1.6 litres of ATRAZINE 480 F plus 17 litres of an emulsifiable crop oil in 150 - 300 L of water per hectare.

CAUTION:

WHERE PLANTING OF TRIAZINE TOLERANT CANOLA IS DELAYED DUE TO INCLEMENT WEATHER CONDITIONS, OR, IF THIS CROP IS GROWN IN LOW HEAT UNIT AREAS, CHECK FOR RESIDUE CARRYOVER PRIOR TO ROTATING TO SUSCEPTIBLE CROPS.

WEED CONTROL IN LOWBUSH BLUEBERRIES

WEEDS CONTROLLED: Browntop Canada goldenrod*

Poverty grass
Sheep fescue
Hawkweed

Narrowleaf goldenrod*
Solidago bicolor*
Wild strawberry

*suppression only

APPLICATION RATES:

Apply 8.25 litres ATRAZINE 480 F per hectare.

TIMING OF APPLICATION:

Apply to native stands in the spring after burn and before new blueberry growth has emerged. CAUTION: Do not apply ATRAZINE 480 F to steep terrain where excellent weed control will result in soil erosion. Do not apply ATRAZINE 480 F to coarse textured soils low in organic matter.

WARNING:

Injury may occur if land treated with ATRAZINE 480 F is planted to any crop other than corn or triazine tolerant canola 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 F and should not be planted on land treated with ATRAZINE 480 F 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 F 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 F OR APPLICATION IN EXCESS OF RECOMMENDED RATES WILL NOT INJURE CORN BUT MAY RESULT IN THE INJURY OF SUCCEEDING CROPS OTHER THAN CORN.

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