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RHONE-POULENC  
RHONE-POULENC CANADA INC.  
2000 ARGENTIA ROAD, PLAZA 3, SUITE 400,  
MISSISSAUGA, ONTARIO L5N 1V9

Atrazine 80W

AGRICULTURAL

HERBICIDE

NET WEIGHT:  
2.5 kg

Wettable powder for: selective weed control in corn, including quackgrass and nutgrass.

GUARANTEE:

Atrazine.....76%  
Related active triazines.....4%

Harmful if swallowed. Keep out of reach of children. Avoid contact with eyes or prolonged contact with skin. Avoid inhalation of dust, vapours, or spray mist. Prevent contamination of food and feed. Do not use on crops other than corn. Do not contaminate any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not re-use container; destroy when empty in a safe manner.

Read the label before using.

Registration No. 15109  
Pest Control Products Act

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GENERAL DIRECTIONS: Mix Atrazine 80W with clean water and apply with an efficient sprayer to obtain an even cover of the surface to be treated. Make a slurry by stirring the necessary amount of powder with water in a pail, and then add this mixture to the spray tank during filling with water. Provide gentle agitation during mixing and spraying. Spray at pressures of about 200 - 300 kPa. Use from 200 - 300 L/ha of spray for overall treatment and from 100 - 150 L/ha for band treatment. Use nozzle screens not finer than 0.3 mm size. After any break in the spraying operation, agitate thoroughly. After use, wash sprayer thoroughly with clean water. Store Atrazine 80W in a dry place.

WEEDS CONTROLLED: Atrazine 80W will effectively control a wide range of annual grasses and broadleaf weeds such as barnyard grass, wild oats, yellow foxtail, green foxtail, lady's thumb, lamb's-quarters, mustards, purslane, ragweed, red-root pigweed, volunteer clovers, wild buckwheat, smartweed and most perennial weeds starting freshly from seed. Weeds normally emerge after pre-emergent treatments and die within a few days, providing directions are followed. At the rates recommended for pre-emergent and early post-emergent weed control in corn, Atrazine 80W will not control established perennials, but will kill perennial species freshly starting from seed. Green foxtail is best controlled by a post-emergent treatment.

TIMING OF APPLICATION: Atrazine 80W may be applied to corn land prior to planting (pre-plant treatment), after planting, but prior to emergence of weeds and corn (pre-emergent treatment) or after emergence of weeds and corn (post-emergent treatment).

Pre-Plant Treatment: Broadcast in the Spring at the rate indicated in the table below. Apply before, during or after final seedbed preparation. If tillage is intended after spraying, do not incorporate Atrazine 80W deeper than 3 cm.

Pre-Emergent Treatment: The seedbed must be firm and free from large air spaces. Apply the Atrazine spray during or shortly after planting, prior to weed emergence. DO NOT USE ATRAZINE 80W ON DRY, CLODDY, LOOSE AND ROUGH SEEDBEDS. Atrazine 80W used in a pre-emergent application acts mainly through root absorption; consequently, rainfall or irrigation is needed to move it into the root zone. If no injury to the weeds is immediately apparent, and if they continue to grow, as may occur under dry or minimal moisture conditions, a shallow cultivation or rotary hoeing will keep them in check until moisture conditions improve.

Post-Emergent Treatment Using Atrazine 80W In Water: For broadleaf weed control, apply before seedling weeds are 5 cm tall. Annual grasses should be treated in the 1 or 2-leaf stage, but not if more than 3 cm in height.

Post-Emergent Treatment Using Atrazine 80W In Oil-Water Emulsion: The post-emergence activity of Atrazine 80W may be increased, especially on the annual grasses, green foxtail, barnyard grass, wild oats and yellow foxtail, and the period of application for broadleaf weeds extended by application in an oil-water emulsion. With this combination satisfactory control has been obtained on seedling broadleaf weeds up to 10 cm high. Annual grasses should be treated when in the 1 to 2 leaf stage (not over 3 cm high). Use 2.0 - 2.75 kg of Atrazine 80W plus 17 L of an emulsifiable crop oil in 200 - 300 L/ha of water. Use only oils which are emulsifiable, non-herbicidal crop oils labelled for use with Atrazine 80W. The combination of Atrazine 80W in oil-water emulsions has been particularly useful following periods of hot, dry weather, when weeds are tougher and more difficult to kill.

NOTE: Some injury to corn can occur with Atrazine 80W applied in oil-water emulsions, especially during cold, backward weather. No risk of corn injury exists when Atrazine 80W 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 80W. The risk of damage to other vegetation from spray drift is increased with the use of

Atrazine 80W in an oil-water emulsion.

**METHODS OF APPLICATION:** Apply Atrazine 80W either as an overall spray or in bands 30 - 35 cm wide and centered over the planted rows. Spray at planting or any time thereafter until weeds are 4 cm tall (grasses 3 cm tall). Band treatments are best applied at planting time with a planter-mounted spray kit, but can also be made shortly after planting, before weed emergence. They are especially desirable where hard soil conditions are likely to exist or where it may be necessary to control troublesome perennial weeds by row cultivation. For band application, use proportionately less herbicide and water per hectare.

**RATES OF APPLICATION OF ATRAZINE 80W (in kg/ha)**

Soil Type	Rate per hectare
Light and Sandy (see Note a)	2 kg
Loam and Clays	2.75 kg
Muck Soils (see Note b)	4.25 kg

**NOTE (a)** The rates for loams and clays should be used on light and sandy soils where annual grass weeds predominate, or where an unusually heavy infestation of broadleaf weeds is expected.

**NOTE (b)** Muck soils are highly absorptive and may interfere with the uptake of Atrazine by weed roots following pre-emergent treatment. Therefore, a firm level seedbed is particularly important and unless this can be achieved, an early post-emergent spray is preferable to a pre-emergent treatment.

**TANK MIX COMBINATIONS**  
(for use on silage, field and sweet corn)

**GENERAL**

Either for severe infestations of late germinating grasses (e.g., crabgrass) or for the reduction of residues of Atrazine for certain susceptible succeeding crops, the following tank mix combinations are recommended.

COMBINATION	APPLICATION	WEEDS CONTROLLED	RATES PER HECTARE
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Atrazine Sutan*	pre-plant incorporated	annual grasses and broadleaves	1.5 kg of Atrazine 80W + 4.25 L of Sutan 8-E
	pre-plant incorporated	yellow nutsedge (nutsedge) annual grasses and broadleaf weeds	1.5 kg of Atrazine 80W + 5.5 L of Sutan 8-E
Atrazine Lasso**	pre-emergent delayed pre	annual grasses and broadleaf weeds	1.5 - 2.25 kg of Atrazine  80W + 4.75 - 6 L of Lasso
		annual grasses and broadleaf weeds	1.5 - 2.25 kg of Atrazine  80W + 4.75 - 6 L of Lasso
Atrazine Bladex***	pre-emergent	annual grasses and broadleaf weeds	1.5 - 2.25 kg of Atrazine  80W + 2.25 - 2.75 kg of Bladex 80W
	early post- emergent	annual grasses and broadleaf weeds	1.5 kg of Atrazine  80W + 2.25 - 2.75 kg of Bladex 80W

CAUTION: Do not mix oils, concentrates or surfactants or hormone-type herbicides with Atrazine/Bladex or Atrazine/Lasso. The respective label MUST be consulted for detailed directions and dosage variations according to soil type and spray timing.

FOLLOW ALL MIXING INSTRUCTIONS, USE PRECAUTIONS AND WARNINGS THAT APPEAR ON THE LABEL OF THE PRODUCT SELECTED FOR TANK MIXING WITH ATRAZINE.

- \* Sutan is a registered trade mark of Stauffer Chemical Company of Canada Limited
- \*\* Lasso is a registered trade mark of Monsanto Company, U.S.A.
- \*\*\* Bladex is a registered trade mark of Shell Canada Limited

Atrazine 80W Combination with Simazine: For improved control of crabgrass and other annual grasses in corn, an overall spray of 1.5 kg of Atrazine 80W plus 1.5 kg of Simazine 80W in 200 - 300 L/ha of water as a tank mix, may be used in place of Atrazine 80W alone. This combination can be applied as a post-emergent treatment in an oil-water emulsion to broadleaf weeds up to 10 cm in height and annual grasses up to 3 cm in height (1 to 2-leaf stage).

QUACKGRASS AND NUTGRASS CONTROL IN CORN Quackgrass: Make one application to Quackgrass foliage in the Fall or early Spring using 2.75 kg of Atrazine 80W in at least 300 litres of water per hectare. Plough or cultivate one to three weeks later. Make a second application after planting the corn using 2.75 kg of Atrazine 80W per hectare as an early postemergence spray. The addition of 17 L of an emulsifiable crop oil to this second treatment will increase the speed of kill of the Quackgrass foliage. The use of this combination is suggested when Quackgrass foliage is heavy. Row cultivation will increase the effectiveness of this treatment. When the use of the split application of Atrazine 80W described above, has not been possible and severe Quackgrass infestations develop in established corn, an "emergency treatment" should be considered. Apply 5.5 kg of Atrazine 80W plus 17 L of an emulsifiable crop oil in 300 litres of water per hectare. Some temporary injury to the corn may occur; however, such injury is usually offset by increased yields due to control of Quackgrass.

Nutgrass: Apply 2.75 kg of Atrazine 80W to the soil in the Spring before the Nutgrass shoots emerge and work into a depth of 5 - 8 cm by discing and harrowing. Plant the corn and make a second application of 2.75 kg of Atrazine 80W per hectare early post-emergence in an oil-water emulsion when the Nutgrass is in the spike stage. Row cultivation may be necessary to obtain good control.

NOTE: Apply the double and "emergency treatment" of Atrazine 80W for the control of Quackgrass or Nutgrass only on land where corn is to be grown for two years in succession. In the second year, apply normal (up to 2.25 kg) dosages.

#### SPECIFIC DIRECTIONS

Follow Proper Mixing Steps:

1. Fill the spray tank with water, leaving space for the addition of Niagara Atrazine 80W and oil.
2. Engage the agitation system and pour in the Niagara Atrazine 80W.
3. Finally, add the emulsifiable oil or oil concentrate last. The mixture can now be applied.
4. Before refilling, empty the tank as completely as possible to prevent a build-up of oil in the tank. If any spray mixture remains in the tank, keep the agitation system in operation to avoid a separation of the oil from the water.
5. If an oil film starts to build up in the tank, drain and clean it with a strong detergent solution or solvent.
6. Immediately after use, thoroughly clean the sprayer by flushing the system with water containing a detergent.

Oil-Water Emulsions: Use the recommended rate of Atrazine 80W plus 17 L of suitable oil (or oil concentrate at label rate) in 200 - 300 L of water per hectare. Use only non-herbicidal crop oils or oil concentrates labelled for use with Atrazine. Oils contaminated with water or other materials can cause either compatibility problems or crop injury, or both.

Procedure for Mixing Atrazine 80W with either Bladex, Lasso or Sutan: After adding the Atrazine slurry, add either the Bladex or Lasso or Sutan directly,

but slowly to tank. Agitate thoroughly before applying.

Cultivation after Spraying: Following BAND TREATMENT, the crops must be cultivated to control weeds in the unsprayed areas between the rows. Avoid disturbing the sprayed area. After OVERALL TREATMENT it is not normally necessary to cultivate, but if rotary-hoeing is desirable to help the corn seedlings emerge, it can be carried out without materially destroying the effect of the treatment.

#### WARNING

Avoid excessive agitation as the mixture of Atrazine 80W and oil may form a grease like mass and settle to the bottom of the tank. The by-pass line should discharge at the bottom of the spray tank. After spraying with Atrazine 80W, do not sow any crop other than corn on the treated land in the same season or severe damage may be caused. One year after application there is virtually no hazard to most rotational crops from the rates given about. Sugar beets and tobacco are sensitive to Atrazine 80W and should not be planted on land treated with Atrazine 80W the previous year. 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, OR APPLICATION IN EXCESS OF RECOMMENDED RATES, WILL NOT INJURE CORN BUT MAY RESULT IN INJURY TO SUCCEEDING CROPS OTHER THAN CORN. When extended periods of dry weather occur during the year of treatment, there can be some injury to such succeeding crops as white beans, onions, peas, tomatoes and turnips. Injury is likely to occur when the seedling crop is subjected to periods of stress, e.g., during periods of abnormally hot, dry weather. When the directions outlined on this label are followed, injury to these crops is unlikely to occur under normal weather conditions.

Under conditions of heavy rainfall, sufficient to cause erosion, soil containing Atrazine 80W may wash to lower areas of land, and injury to existing or subsequent crops, other than corn, may result. Avoid drift in crop area.

#### PRECAUTIONARY STATEMENT

Harmful if swallowed. KEEP OUT OF REACH OF CHILDREN. Avoid contact with eyes or prolonged contact with skin. Avoid inhalation of dust, vapours, or spray mist. Prevent contamination of food and feed. Do not use on crops other than corn. Do not contaminate any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

Avoid drift in crop area. Being active mainly through the roots, Atrazine presents little spray drift hazard to established crops or ornamentals. It may creep to some extent, especially on sloping ground. Trees, ornamentals, or crops are likely to be damaged if their roots extend into the treated zone. Under conditions of heavy rainfall sufficient to cause erosion, soil containing Atrazine may wash to lower areas of land and injury to existing or subsequent crops (other than corn) may result. Warning: Carry over to succeeding crops. After use, wash sprayer thoroughly with clean water.

DECONTAMINATION AND DISPOSAL: Do not re-use container; destroy when empty in a safe manner.

FIRST AID INSTRUCTIONS: Wash hands and clothes after use. If on skin, wash with soap and water. If in eyes, flush with plenty of water for 10 - 15 minutes. Get medical attention.

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.

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