

92.03.20

(( LABEL ))

REFINE (R)  
HERBICIDE

DRY FLOWABLE

AGRICULTURAL

For use on Wheat (spring, winter and durum) and Barley  
(except Klages and Betzes varieties in Alberta).

READ THE LABEL AND ENCLOSED DIRECTIONS  
FOR USE BEFORE USING

THIS PRODUCT MUST BE USED IN COMBINATION WITH WO

Guarantee:  
Thifensulfuron methyl.....75%

Net Contents: 160 GRAMS

REGISTRATION NO. 22309

PEST CONTROL PRODUCTS ACT

DU PONT CANADA INC.  
AGRICULTURAL PRODUCTS

BOX 2300, STREETSVILLE  
MISSISSAUGA, ONTARIO  
L5M 2J4  
1-416-821-5153

REGENCY CENTRE #105  
333-25TH STREE EAST  
SASKATOON, SASKATCHEWAN  
S7K 0L4  
1-800-667-3925

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.

Avoid breathing spray mist.  
Avoid contact with skin, eyes and clothing.  
Do not contaminate any body of water.

FIRST AID FOR REFINE

EYE CONTACT: Flush eyes immediately with plenty of water for 15

minutes. Contact a physician.

SKIN CONTACT: Wash skin with plenty of soap and water. Remove and wash contaminated clothing before reuse.

INGESTION: Drink lots of water and induce vomiting. Repeat until vomit fluid is clear.

#### STORAGE AND DISPOSAL

##### STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container closed.

##### DISPOSAL:

1. Rinse the emptied container thoroughly 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.

#### NOTICE TO USER

This control product is to be used only in accordance with the directions on this label. It is an offense 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.

The seller warrants that the purchase by the buyer and the use of this product, as such, will not infringe any Canadian patent.

(( PAMPHLET ))

REFINE(R) W.O.

POST EMERGENCE HERBICIDE TANK MIX

For use on Wheat (spring, winter and durum) and Barley  
(except Klages and Betzes varieties in Alberta).

AGRICULTURAL

DANGER CORROSIVE

READ THE LABEL AND DIRECTIONS FOR USE BEFORE USING

THIS TANK MIX USES:

REFINE, Reg No. 22309, Pest Control Products Act

GUARANTEE: Thifensulfuron methyl .....75%

WO, Reg No. 22310, Pest Control Products Act

GUARANTEE: Diclofop-methyl .....284 g/L

CONTENTS:

REFINE .....160 GRAMS

WO ..... 20 LITRES ( 2 x 10 L )

DU PONT CANADA INC.  
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## IMPORTANT

Injury to or loss of desirable trees or vegetation may result from failure to observe the following:

Do not apply, drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on lawns, walks, driveways, tennis courts or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water, including irrigation water that may be used on other crops. Wheat or barley must not be grazed by or fed to livestock prior to harvest.

Carefully observe sprayer clean-up instructions, as spray tank residue may damage crops other than spring wheat, winter wheat or barley. DO NOT APPLY BY AIR.

REFINE WO TANK MIXTURE may not be used on any crop for which it is not registered.

## GENERAL INFORMATION

REFINE WO TANK MIXTURE is recommended for selective postemergence control of wild oats and broadleaf weeds in wheat (spring, winter, or durum) and barley not underseeded to legumes or grasses.

REFINE WO TANK MIXTURE must be applied early postemergence to the main flush of actively growing weeds. Warm, moist growing conditions promote active weed growth and enhance the activity of REFINE WO by allowing maximum foliar uptake and contact activity. Weeds hardened off by environmental stress may not be adequately controlled or suppressed and regrowth may occur. REFINE WO TANK MIXTURE may only be applied using ground equipment. For best results, ensure thorough spray coverage of target weeds. Refer to "Postemergence Applications" section of the label for complete use details.

Degree of control and duration of effect depend on weed sensitivity, weed size, crop competition, growing conditions and spray coverage.

CAUTION: Do not graze the treated crops or cut for hay; there are not sufficient data available to support such use.

## DIRECTIONS FOR USE

For use on Wheat (spring, winter and durum) and Barley (except Klages and Betzes varieties in Alberta).

### MIXING INSTRUCTIONS

Always add the full amount of REFINE herbicide required for the spray load first. Ensure that REFINE is completely in suspension then add WO while continuing agitation. DO NOT add a surfactant. For repeat loads, slurry the REFINE herbicide in water before adding to the required amount of water in the spray tank.

Use spray preparation of REFINE WO TANK MIXTURE within 24 hours or product degradation may occur. If spray preparation is left standing thoroughly agitate and re-suspend the mixture before spraying.

### RATE OF APPLICATION

Apply 20 grams of REFINE with 2.5 Litres of WO per hectare. THE CONTENTS OF 1 CASE WILL TREAT 8 HECTARES (20 ACRES).

### METHOD OF APPLICATION

Apply REFINE WO TANK MIXTURE in a minimum of 110 litres of water per hectare, at a pressure of 275 kPa., and a ground speed not in excess of 8 kph. The use of 80 or 110 degree flat fan nozzles is recommended for optimum coverage. DO NOT USE FLOOD JET NOZZLES, CONTROLLED DROPLET APPLICATION EQUIPMENT OR SPRAFOIL(\*\*) EQUIPMENT. Uniform, thorough coverage is necessary to obtain good control. Application of the spray at a 45 degree angle forward will also result in better coverage. Note: If rain occurs soon after application, control may be reduced. Several hours of dry weather are needed to allow the Refine WO tank mixture to be absorbed by foliage.

Continuous agitation is required to keep REFINE WO in suspension. Apply uniformly and avoid overlapping. Shut off spray boom while starting, turning, slowing or stopping to prevent crop injury from overapplication.

A time interval of 4 days after application of the REFINE WO tank-mix is required before any other pesticide, fertilizer or chemical additives can be applied.

DO NOT APPLY REFINE WO TANK MIXTURE WITHIN 60 DAYS OF HARVEST.

#### TIME OF APPLICATION

REFINE WO TANK MIXTURE must be applied to actively growing wild oats in the 1-4 leaf stage (prior to tillering), and to broadleaved weeds less than 10 cm tall or across. Weeds emerging after application will not be controlled.

WHEAT - apply between the 2 - leaf and flag leaf stages of the crop.

BARLEY - apply between the 2 and 4 leaf stage of the crop, prior to tillering. Application beyond the 4 leaf stage or after tillering will cause crop injury.

#### WEEDS CONTROLLED

Wild Oats	Russian thistle	Volunteer rapeseed
Chickweed	Green smartweed	Cow cockle
Hemp-nettle	Stinkweed	Wild buckwheat
Lady's-thumb	Lamb's-quarters	Wild mustard
Redroot pigweed	Corn Spurry	

#### WEEDS SUPPRESSED:

Kochia

Suppression is a visual reduction in weed competition (reduced population or vigor) as compared to an untreated area.

#### SPECIFIC WEED RECOMMENDATIONS:

CHICKWEED: Apply REFINE WO when chickweed is small (1-6 leaf) and actively growing but before crop canopy prevents thorough coverage of weeds. Chickweed emerging after application will not be controlled.

WILD BUCKWHEAT: Apply REFINE WO to ACTIVELY GROWING wild buckwheat in the 1-3 leaf stage. Under dry conditions control may be reduced. Large plants may regrow after treatment.

#### SPRAYER CLEANUP

To avoid injury to crops other than wheat and barley, immediately after spraying and prior to spraying other crops, thoroughly

remove all traces of REFINE WO from mixing and spray equipment as follows:

- 1) Do not clean equipment in an enclosed area. DO NOT CLEAN SPRAYER NEAR WELL OR WATER SOURCE, OR NEAR TO DESIRABLE VEGETATION.
- 2) Drain tank; then flush tank, boom and hoses with clean water for a minimum of ten minutes. Visually inspect tank to ensure removal of all visible residues of REFINE WO. If necessary, repeat Step 2.
- 3) Fill the tank with clean water, then add 1 litre household ammonia (containing minimum of 3% ammonia) per 100 litres of water. Flush solution through boom and hoses, and then add more water to completely fill tank. Allow to sit for 15 minutes with agitation. Again flush the hoses, boom and nozzles with the cleaning solution and drain tank.
- 4) Remove the nozzles and screens and clean separately in a bucket containing the cleaning agent and water.
- 5) Repeat Step 3.
- 6) Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing water through the hoses and boom.

CAUTION: Do not use ammonia with chlorine bleach. Using ammonia with chlorine bleach will release a gas with a musty chlorine odour which may cause eye, nose, throat, and lung irritation.

#### USE PRECAUTIONS

Do not apply to crops that are stressed by severe weather conditions, frost, low fertility, drought, water saturated soil, disease or insect damage as crop injury may result.

Do not apply within 15 meters of a body of water or wetland area. Do not contaminate water supply, ponds, lakes, streams and irrigation ditches. Toxic to fish.

Do not apply to irrigated land where tail water will be used to irrigate crop land. Do not contaminate irrigation water.

Under certain conditions (such as heavy rainfall, prolonged cool

weather, frost conditions, wide fluctuations in day/night temperatures) temporary lightening in crop color and occasionally a slight reduction in crop height may occur.

When daytime temperatures are very hot(28 degrees C) and/or conditions are very dry and/or there is low humidity, plants are under stress. Application of REFINE WO TANK MIXTURE during these periods may result in substantially reduced control. Under these conditions yellow blotches may appear on crop leaves. These blotches will be rapidly outgrown and will not affect maturity or yield.

Do not apply to crops underseeded to legumes, or grasses as injury to forage may result.

Because crop varieties differ in their tolerance to herbicides, limit first use of REFINE WO to a small area of each variety prior to adoption as a field practice.

Do not plant to any crop other than wheat or barley for 30 days after application of REFINE WO.

Avoid spray drift onto susceptible plants.

Some naturally occurring populations of certain weeds listed on this label will not be controlled by REFINE WO TANK MIXTURE, ALLY, GLEAN or MUSTER. These populations are able to survive a use rate several times higher than needed to control susceptible populations. To delay selection for resistant populations rotate the use of these herbicides with other herbicides effective on the same weeds. Avoid use of REFINE WO, ALLY, GLEAN, MUSTER, TRIUMPH PLUS, or LASER DF repeatedly in the same field.

Contact your local Du Pont representative or the Du Pont hotline at 1-800-667-3925 for further information.

This tank-mix is a sensitizer and causes eye damage. Wear gloves and protective eye equipment when handling.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.

Avoid breathing spray mist.

Avoid contact with skin, eyes and clothing.

Do not contaminate any body of water.

Toxic to fish.

FIRST AID FOR REFINE WO TANK-MIX



EYE CONTACT: Flush eyes immediately with plenty of water for 15 minutes and take patient to hospital at once.

SKIN CONTACT: Wash skin with plenty of soap and water. Remove and wash contaminated clothing before reuse.

INGESTION: If swallowed, DO NOT induce vomiting, but rush patient to nearest hospital taking this label with you. The tank-mix component WO contains PETROLEUM DISTILLATES.

#### STORAGE AND DISPOSAL

##### STORAGE:

Store product in original container only, away from other pesticides, fertilizer, food or feed. Not for use or storage in or around the home. Keep container tightly closed. Cannot be stored below freezing.

##### DISPOSAL:

1. Rinse the emptied container thoroughly 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.
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\*WO is a registered trademark of Hoechst AG, Germany  
\*\*SPRAFOIL is a registered trademark of D.& W. Industries

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