

ASSERT®

11/12/98 PS 183 herbicide

Supplemental Labeling

EPA Reg. No. 241-285

NOTIFICATION

FOR USE IN SUNFLOWER
(Expires April 30, 2001)

NOV 12 1998

FOR DISTRIBUTION AND USE IN MINNESOTA, NORTH DAKOTA, AND SOUTH DAKOTA

OBSERVE ALL PRECAUTIONARY STATEMENTS AND LIMITATIONS ON THE ASSERT LABEL AND ON TANK MIX PARTNER LABELS. FOLLOW THE MOST RESTRICTIVE USE PRECAUTIONS, OR DIRECTIONS FOR APPLICATION THAT APPEAR ON ANY PRODUCT LABEL.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. THIS LABEL MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF HERBICIDE APPLICATION. DO NOT apply this product through any type of irrigation system.

ASSERT container leaflet label for general use, mixing, application and follow crop instructions.

DO NOT tank mix insecticides or herbicides with ASSERT in sunflowers.

WEED CONTROLLED

Wild mustard (*Brassica kaber*)

GENERAL INFORMATION

ASSERT herbicide is a selective herbicide for the postemergence control of wild mustard in sunflowers. APPLY ASSERT POSTEMERGENCE TO SUNFLOWERS NOT UNDER DROUGHT/HEAT STRESS, FROM THE 2 TO 8-LEAF STAGE OF GROWTH (SUNFLOWERS MUST BE LESS THAN 15 INCHES HIGH). Maximum weed control with ASSERT is obtained when temperature, moisture, fertility and cultural practices provide favorable conditions for active plant growth. UNIFORM SPRAY COVERAGE IS REQUIRED FOR MAXIMUM WEED CONTROL AND REDUCED INJURY POTENTIAL.

TIMING AND RATES OF APPLICATION

For optimum wild mustard control apply ASSERT at 0.6 to 0.8 pints per acre (9.6-12.8 fl. oz/acre) when the majority of wild mustard plants are in the rosette stage and prior to bloom.

ASSERT may be applied following application of a soil applied herbicide registered for use in sunflowers such as PROWL® herbicide, Amiben¹, Eptam², Treflan³, or trifluralin⁴.

Before applying ASSERT to sunflowers, thoroughly rinse and empty the spray tank of any herbicide containing solution. Then, wash all lines prior to adding ASSERT to the tank. Herbicide residues remaining in the spray tank can injure sunflowers at extremely low concentrations.

DISCLAIMER

THE USER ASSUMES ALL RISKS AND CONSEQUENCES ASSOCIATED WITH APPLICATIONS OF ASSERT ON SUNFLOWERS. Use of ASSERT herbicide in accordance with label directions is expected to result in normal growth of crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of ASSERT and therefore, injury to sunflowers and rotational crops is always possible.

A NON-IONIC SURFACTANT CONTAINING AT LEAST 80% ACTIVE INGREDIENT MUST BE USED WITH ASSERT HERBICIDE. Refer to the

REFER TO THE ASSERT LEAFLET LABEL FOR ADDITIONAL DISCLAIMER STATEMENTS.

¹ Amiben is a trademark of Rhone-Poulenc.

² Eptam is a trademark of Zeneca.

³ Treflan is a trademark of DowElanco.

⁴ Trifluralin is sold under various brand names.

® Registered Trademark of American Cyanamid Company.



PM 25

241-285

203

ASSERT®

herbicide

Supplemental Labeling

NOTIFICATION
NOV 12 1998

EPA Reg. No. 241-285

**FOR USE IN WHEAT AND BARLEY
(Expires April 30, 2001)**

FOR DISTRIBUTION AND USE IN TEXAS AND OKLAHOMA

OBSERVE ALL PRECAUTIONARY STATEMENTS AND LIMITATIONS ON THE ASSERT LABEL AND ON TANK MIX PARTNER LABELS. FOLLOW THE MOST RESTRICTIVE USE PRECAUTIONS, OR DIRECTIONS FOR APPLICATION THAT APPEAR ON ANY PRODUCT LABEL.

SEE THE ASSERT LEAFLET LABEL FOR USE DIRECTIONS INCLUDING GENERAL INFORMATION, MIXING AND APPLICATION INSTRUCTIONS, USES WITH OTHER PRODUCTS, ROTATIONAL CROP RESTRICTIONS, AND DISCLAIMER STATEMENTS.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This label must be in the possession of the user at the time of pesticide application. **DO NOT** apply this product through any type of irrigation system.

See the ASSERT leaflet label for use directions. Additional instructions are given below.

GENERAL INFORMATION

ASSERT is a selective herbicide for the postemergence control of wild oats and wild mustard in wheat and barley. Apply ASSERT postemergence to wheat (including durum) and barley from the 2 leaf stage of the crop, but before development of the first internode (jointing). **DO NOT** apply ASSERT when freezing temperatures have occurred or are forecast. Allow at least 2 days of non-freezing temperatures before and after ASSERT application or reduced weed control may occur.

Proper timing of ASSERT application is critical for effective weed control. Grazing wheat or barley prior to treatment can result in improper staging of wild oat populations which, in turn, can result in poor or erratic weed control. Grazing wheat or barley prior to ASSERT application is not recommended.

Wild oats will be controlled when treated in the 1 to 4 true leaf stage. Wild mustard will be controlled when treated in the rosette stage prior to bloom.

If unfavorable growing conditions exist, ASSERT may cause slight discoloration and delayed growth of durum wheat. The crop will recover under normal growing conditions and yields will not be affected.

ASSERT alone or in combination can be applied by ground equipment or aircraft.

Maximum weed control with ASSERT alone or in combination is obtained when temperature, moisture, fertility and cultural practices provide favorable conditions for active plant growth. **FOR HIGH POPULATIONS OF WILD OATS (IN EXCESS OF 25 PLANTS PER SQUARE FOOT), USE A MINIMUM SPRAY VOLUME OF 15 GALLONS PER ACRE BY GROUND OR 5 GALLONS PER ACRE BY AERIAL APPLICATION. THOROUGH UNIFORM SPRAY COVERAGE IS REQUIRED TO MAXIMIZE WEED CONTROL.**

ASSERT rapidly inhibits growth of susceptible weeds; however, typical symptoms (discoloration) of dying weeds may not be noticeable until 2-4 weeks after application. Weeds hardened by cold weather or drought stress may not be fully controlled and regrowth may occur; increase spray solution (gallons per acre) and surfactant under these conditions.

MIXING INSTRUCTIONS

A NON-IONIC SURFACTANT CONTAINING AT LEAST 80% ACTIVE INGREDIENT MUST BE USED WITH ASSERT HERBICIDE. See the ASSERT leaflet label for all mixing and applications instructions.

Crop oil can be added to an ASSERT application at a rate of 2 pints (1 quart) per acre of spray solution. When using crop oil as an adjuvant, it is required to also add an approved non-ionic surfactant (NIS) to the tank, unless the crop oil includes a NIS at a concentration which will give a final spray solution concentration of at least 0.25% NIS.

DO NOT use a surfactant that also acts as a buffering agent, or ASSERT may precipitate. If a precipitate forms due to incompatible tank-mix partners, contact your Cyanamid representative. If test of clean water supply indicates that a precipitate forms due to highly-buffered alkaline or hard water, precondition your water with sodium bisulfate. Contact your Cyanamid representative for instructions.

When applying ASSERT using a non-phosphorous liquid fertilizer (such as 28-0-0) as a carrier, contact your Cyanamid representative for instructions for preconditioning the carrier.

HERBICIDE COMBINATIONS

Buctril ¹	Express ³
Amber ²	Finesse ³
Ally ³	Harmony ³
Glean ³	Harmony Extra ³

NOTE: DO NOT tank mix ASSERT with any product not registered in specific states of intended use. Follow the most restrictive precautions, directions and recropping/rotation limitations that appear on the respective product labels. Tank mixtures must be applied prior to the development of the first internode (jointing) of the crop.

DO NOT tank mix ASSERT with any product not specifically listed under the HERBICIDE COMBINATIONS section of this label.

DO NOT tank mix ASSERT with Banvel², any product containing dicamba⁴, MCPA⁴ amine, or 2,4-D⁴ amine formulations. A waiting period of 4 days should be observed before applying any herbicide not listed as a tank-mix partner.

SPRAYING INSTRUCTIONS

Refer to the ASSERT leaflet label for equipment application instructions.

Uniformly apply the recommended ASSERT or ASSERT tank mixture in 10 or more gallons of water per acre with ground equipment or in 5 or more gallons of water per acre by aircraft. **FOR HIGH POPULATIONS OF WILD OATS (IN EXCESS OF 25 PLANTS PER SQUARE FOOT), USE A MINIMUM SPRAY VOLUME OF 15 GALLONS PER ACRE BY GROUND OR 5 GALLONS**

¹ Buctril is a trademark of Rhone Poulenc.
² Amber and Banvel are trademarks of Novartis.
³ Ally, Glean, Harmony, Harmony Extra, Express, and Finesse are trademarks of E.I. du Pont de Nemours and Co., Inc.
⁴ Dicamba, MCPA and 2,4-D are active ingredients sold under various brand names.

PER ACRE BY AERIAL APPLICATION. THOROUGH UNIFORM SPRAY COVERAGE IS REQUIRED TO MAXIMIZE WEED CONTROL.

Avoid overlapping, and shut off spray booms while starting, turning, slowing or stopping, or injury to the crop or a rotational crop could result. DO NOT allow spray to drift onto adjacent crops as injury may occur. For optimum weed control, ASSERT must absorb into plant leaves for 3 hours prior to overhead irrigation or rainfall.

DO NOT apply ASSERT when freezing temperatures have occurred or are forecast. Allow at least 2 days of non-freezing temperatures before and after ASSERT application or reduced weed control may occur.

For optimum weed control under cool conditions, it is recommended to apply ASSERT using the following additional instructions:

1. Use a minimum spray volume of 15 gallons per acre by ground or 5 gallons per acre by aerial application.
2. Use non-ionic surfactant plus crop oil concentrate.

IMPORTANT

DO NOT make more than one application of ASSERT per growing season. DO NOT graze treated fields or cut treated forage for silage or hay. Wheat and barley straw may be fed or used for bedding.

FOLLOW CROP RESTRICTIONS

See the ASSERT leaflet label for follow crop restrictions.

WEEDS CONTROLLED

Wild oats	(<i>Avena fatua</i>)
Wild mustard	(<i>Brassica kaber</i>)

TIMING AND RATES OF APPLICATION

For wild oat control apply ASSERT at 1.5 pints per acre when the wild oats are in the 1-4 true leaf stage. A rate of 1.2 pints per acre may be used for wheat planted after November 15.

For optimum control of wild mustard apply ASSERT at 1.5 pints per acre when mustard plants are in the rosette stage (1-6 leaves) and prior to bloom.

Refer to the ASSERT leaflet label for instructions for broadleaf herbicides which may be tank mixed with ASSERT to obtain maximum wild oat and broadleaf control.

For additional information regarding the use of ASSERT herbicide, call telephone number (800) 942-0500.



American Cyanamid Company
 North America Agricultural Products Division
 Crop Protection Products Department
 One Campus Drive, Parsippany, NJ 07540 © 1998