



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAR 16 2009

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Ms. Annette M. Kirk
Monsanto Company
1300 I (Eye) Street, NW-Suite 450 East
Washington, DC 20005

Dear Ms. Kirk:

Subject: Roundup PowerMAX Herbicide (Addition of Early Season Disease Suppression Claim when Used On Roundup Ready 2 Yield Soybeans)
EPA Registration No. 524-549
Application Dated January 5, 2009

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act as amended is acceptable, provided you make the following changes before you release the product for shipment.

1. Under Postemergence (In Crop) revise the fourth sentence in the first paragraph to read "Refer to the "ANNUAL WEEDS RATE SECTION" of the label booklet for Roundup WeatherMax for **application rates** for specific annual weeds. The Agency no longer allows use of the word "recommended" when referring to application rates.
2. Under Postemergence (In Crop) revise the fifth sentence in the first paragraph to read similar to "In general apply and initial application of 22 ounces per acre on 2 to 8 inch weeds."
3. Under Postemergence (In Crop), revise the last sentence in the third paragraph to read similar to "To control giant ragweed, apply 22 fluid ounces of this product per acre when the weed is 8-12 inches tall to increase control and possibly avoid the need for a sequential application."

Please submit one (1) copy of your final printed labeling incorporating the above changes before you release the product for shipment. A stamped copy of labeling is enclosed for your records.

Supplemental labeling must be incorporated into master labeling and copies of master labeling submitted to the Agency for our files at your next printing or within 2 years from the date of acceptance of supplemental labeling, whichever comes first. The Agency will consider a convincing argument as to why a supplemental label should not appear on a master label on a case by case basis.

Sincerely,

Vickie K. Wilkes for
James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505P)

SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR ROUNDUP POWERMAX[®] HERBICIDE BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABELING.

When using Roundup PowerMAX herbicide as permitted according to this supplemental labeling, read and follow all applicable directions, restrictions, and precautions on the label booklet provided with the pesticide container and on this supplemental labeling. This supplemental labeling must be in the possession of the user at the time of pesticide application.

Roundup PowerMAX[®] HERBICIDE

EPA Reg. No. 524-549

ACCEPTED
with COMMENTS
In EPA Letter Dated:

MAR 16 2009

USE ON ROUNDUP READY 2 YIELD[®] SOYBEANS

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
524-549

Keep out of reach of children

CAUTION!

In case of an emergency involving this product, Call Collect, day or night, 314-694-4000.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling.

This labeling must be in the possession of the user at the time of herbicide application.

ROUNDUP READY CROPS CONTAIN A PATENTED GENE THAT PROVIDES TOLERANCE TO GLYPHOSATE, THE ACTIVE INGREDIENT IN THIS PRODUCT. THIS PRODUCT WILL CAUSE SEVERE CROP INJURY OR DESTRUCTION AND YIELD LOSS IF APPLIED TO CROPS THAT ARE NOT GLYPHOSATE TOLERANT. AVOID CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS OR ANY DESIRABLE PLANTS THAT DO NOT CONTAIN A GLYPHOSATE TOLERANCE GENE, SINCE SEVERE PLANT INJURY OR DESTRUCTION WILL RESULT.

See "GENERAL INFORMATION" and "MIXING" and "ROUNDUP READY CROPS" sections of the label booklet for Roundup PowerMAX herbicide for essential product performance information.

TYPES OF APPLICATIONS: Preplant, At-Planting, Preemergence, Postemergence (In-crop), Preharvest, Post-Harvest.

GENERAL USE INSTRUCTIONS: Refer to the following table for maximum application rates of this product with **Roundup Ready 2 Yield** soybeans.

Maximum Application Rates	
Combined total per year for all applications	5.3 quarts per acre
Total of all Preplant, At-Planting, Preemergence applications	3.3 quarts per acre
Total of all In-crop applications from cracking through flowering (R2 stage soybeans)	64 fluid ounces per acre
Maximum Preharvest application rate	22 fluid ounces per acre

GENERAL PRECAUTIONS, RESTRICTIONS: See the "ROUNDUP READY CROPS" section of the label booklet for Roundup PowerMAX for general precautionary instructions for use in Roundup Ready crops. The maximum combined total quantity of this product for all applications in a season is 5.3 quarts per acre. See the "GENERAL INFORMATION" section of the label booklet for more information on Maximum Application Rates.

Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be applied before, during or after planting **Roundup Ready 2 Yield** soybeans.

TANK MIXTURES: This product may be tank-mixed with 2,4-D, Banvel or Clarity and applied prior to planting only. This product may be tank-mixed with the following products and applied prior to crop emergence. Ensure that the specific product being used in the tank mixture is registered for application prior to emergence of soybeans. Read and follow label directions of all products in the tank mixture.

Aim, Assure II, Axiom, Blanket, Boundary, Canopy, Classic, Cobra, Command, Command Xtra, Domain, Dual MAGNUM, Dual II MAGNUM, FirstRate, Flexstar, Frontier, Fusion, Gangster, INTRRO, Lexone, Linex, Lorox, metolachlor, s-metolachlor, Me-Too-Lachlor, Micro-Tech, Outlook, Pendimax, pendimethalin, Pursuit, Pursuit Plus, Python, Reflex, Resource, Scepter, Select, Select MAX, Sencor, Spartan, Squadron, Steel, Treflan, Valor, 2,4-D

PRECAUTIONS, RESTRICTIONS: Maximum quantity of this product that may be applied for all preplant, at-planting and preemergence applications combined is 3.3 quarts per acre per season. Refer to individual tank mixture product label for restrictions and precautions; use according to the most restrictive precautionary statements for each product in the tank mixture.

Postemergence (In-crop)

USE INSTRUCTIONS: This product may be used to control annual grasses and broadleaf weeds in **Roundup Ready 2 Yield** soybeans. Applications of this product can

be made in **Roundup Ready 2 Yield** soybeans from emergence (cracking) through flowering (R2 stage soybeans). R2 stage soybeans end when a pod 5 millimeters (3/16 inch) long appears at one of the four uppermost nodes on the main stem with a fully developed leaf (R3 stage). Refer to the "ANNUAL WEEDS RATE SECTION" of the label booklet for Roundup PowerMAX for rate recommendations for specific annual weeds. In general, an initial application of 22 fluid ounces per acre on 2 to 8 inch tall weeds is recommended. Weeds will generally be 2 to 8 inches tall, 2 to 5 weeks after planting. If the initial application is delayed and weeds are larger, apply a higher rate of this product. This product may be applied up to 44 fluid ounces per acre as a single, in-crop application for control of annual weeds and where dense weed populations exist.

A 22- to 44-fluid-ounce per acre rate (single or multiple applications) of this product will control or suppress perennial weeds, such as, bermudagrass, Canada thistle, common milkweed, field bindweed, hemp dogbane, horsenettle, maretail (horseweed), nutsedge, quackgrass, rhizome johnsongrass, redvine, trumpetcreeper, swamp smartweed and wirestem muhly. For best results, allow perennial weed species to achieve at least 6 inches of growth before spraying with this product.

Under adverse growing conditions such as drought, hail, wind damage or a poor soybean stand that slows or delays canopy closure, a sequential application of this product may be necessary to control late flushes of weeds. IN THE SOUTHERN STATES, A SEQUENTIAL APPLICATION OF THIS PRODUCT WILL BE REQUIRED TO CONTROL NEW FLUSHES OF WEEDS IN THE **ROUNDUP READY 2 YIELD** SOYBEAN CROP. To control giant ragweed, it is recommended that 22 fluid ounces of this product per acre be applied when the weed is 8 to 12 inches tall to increase control and possibly avoid the need for a sequential application.

TANK MIXTURES: This product may be tank-mixed with the following products and applied postemergence (in-crop) over the top of **Roundup Ready 2 Yield** soybeans. Ensure that the specific product being used in the tank mixture is registered for application postemergence (in-crop) to soybeans. Read and follow label directions of all products in the tank mixture.

Arrow, Assure II, Basagran, Classic, Cobra, Extreme, FirstRate, Flexstar, Fusilade DX, Fusion, Harmony GT XP, Poast, Poast Plus, Pursuit, Pursuit Plus, Raptor, Reflex, Select, Select MAX, Synchrony STS, Targa, Ultra Blazer

Early Season Disease Suppression

Postemergence applications of this product made within the application rates and timings described above for weed control may provide suppression of the following soybean fungal diseases: Brown Stem Rot (*Phialophora gregata*), Charcoal Rot (*Macrophomina phaseolina*), Stem Canker (*Diaporthe phaseolorum* var. *meridionalis*), and Sudden Death Syndrome (*Fusarium virguliforme*). Suppression of these diseases, which may result in improved plant health and protection of yield, may occur with applications of this product made during labeled timings for weed control. The level of activity against these labeled fungal diseases is not sufficient to provide complete disease prevention or control. The amount of disease suppression will be reduced with high disease pressure or environmental conditions that favor disease development. Any potential for yield protection in Roundup Ready 2 Yield soybeans provided by suppression of labeled diseases would occur only as a complement to the normal weed control applications. Therefore, always determine application rates and timings of this

product based on size and species of weeds to be controlled, not on presence or absence of disease.

U.S. patents pending for the use of glyphosate as a method for suppressing early-season soybean diseases in Roundup Ready and Roundup Ready 2 Yield soybeans.

PRECAUTIONS, RESTRICTIONS: The combined total application from crop emergence through harvest must not exceed 64 fluid ounces per acre. The maximum rate for any single in-crop application is 44 fluid ounces per acre. The maximum combined total of this product that can be applied during flowering (R2 stage soybeans) is 44 fluid ounces per acre. Refer to individual tank mixture product labels for restrictions and precautions; use according to the most restrictive precautionary statements for each product in the tank mixture. In some cases, these tank-mix products will cause visual soybean injury.

Preharvest

USE INSTRUCTIONS: This product may be applied to **Roundup Ready 2 Yield** soybeans for weed control prior to harvest. Apply up to 22 fluid ounces of this product per acre after pods have set and lost all green color.

PRECAUTIONS, RESTRICTIONS: Care should be taken to avoid excessive seed shatter loss due to ground application equipment. Allow a minimum of 14 days between final application and harvest of soybean grain or feeding of soybean grain, forage or hay.

Post-Harvest

USE INSTRUCTIONS: This product may be applied for weed control after harvest of **Roundup Ready 2 Yield** soybeans. Higher rates may be required for control of large weeds that were growing in the crop at the time of harvest. Tank mixtures with 2,4-D or dicamba may be used.

Read the "Limit of Warranty and Liability" in the label booklet for Roundup PowerMAX herbicide before using. These terms apply to this supplemental labeling and if these terms are not acceptable, return the product unopened at once.

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