

JUN 28 1993

Mr. J. H. Cain
E.I. DuPont de Nemours and Company
Agricultural Products
Walkers Mill, Barley Mill Plaza
P.O. Box 80038
Wilmington, DE 19880-0038

Dear Mr. Cain:

Subject: DuPont Concert SP Herbicide (Add Kansas)
EPA Registration No. 352-561
Your Application Dated June 28, 1993

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) and sec. 4 when the Agency requires all registrants of similar products to submit such data.
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

This acceptance of your label does not relieve you of any obligation to comply with the Worker Protection Standard (WPS). Under the WPS labeling regulations at 40 CFR part 156, subpart K, 156.200(c)(3), you are prohibited from distributing or selling any product within the scope of the WPS requirements after April 21, 1994, without amended labeling accepted by the Agency.

Sincerely,

Robert J. Taylor *VKW*
Product Manager 25
Fungicide-Herbicide Branch
Registration Division (H7505C)

2079



Concert[®] SP

HERBICIDE



**ACCEPTED
with COMMENTS
in EPA Letter Dated:**

JUN 28 1993

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

352-561

"..... A GROWING PARTNERSHIP WITH NATURE"

"CONCERT" SP HIGHLIGHTS

- For selective postemergence broadleaf weed control in soybeans.
- One 2 ounce Soluble Pack treats 4 acres.
- Include a spray additive recommended in this label. See Spray Additives.
- Include a nitrogen fertilizer (example: 2-4 quarts of 28-0-0). See Spray Additives
- May be applied by ground (broadcast or band) or by air.
- For ground application, apply in 10-25 gallons of water at 25-60 psi. Using flat fan nozzles may optimize CONCERT SP performance.
- Apply to actively growing weeds at the recommended sizes. See Rate.
- Tank mix only with pesticides specified by this or other supplemental labeling. See Tank Mix Applications.
- Certain environmental conditions, such as cool and dry, or hot and humid weather, affect the performance of CONCERT SP. See Environmental Conditions.

Consult label text for complete instructions.
Always read and follow label directions for use.

TABLE OF CONTENTS

Precautionary Statements	1
Application Information	2
When to Apply	2
Rate	2
Spray Additives	2
Mixing Instructions	2
Tank Mix Applications	3
Application Equipment	3
Ground Application	3
Aerial Application	4
Environmental Conditions and Biological Activity.....	4
Cultivation	4
Crop Rotation	4
Rotational Crop Intervals for CONCERT SP	4
Field Bioassay for Other Crops	5
Sprayer Preparation and Cleanup	5
Spray Drift	5
Important Precautions	6
Storage and Disposal	6
Notice of Warranty	6

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CONCERT™ SP HERBICIDE

Dry flowable

For Use on Soybeans Only

For selective postemergence weed control in soybeans in the states of Illinois, Iowa, Kansas, Minnesota*, Missouri, Nebraska and South Dakota.

* See "Important Precautions"

This product is a water-dispersible granule containing 25% active ingredient by weight contained in a premeasured water soluble pack.

<i>Active Ingredients:</i>	<i>By Weight</i>
<i>Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]-2-thiophenecarboxylate</i>	<i>12.5%</i>
<i>Chlorimuron Ethyl</i>	
<i>Ethyl 2-[[[(4-chloro-6-methoxypyrimidin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate</i>	<i>12.5%</i>
<i>INERT INGREDIENTS:</i>	<i>75.0%</i>
<i>TOTAL</i>	<i>100.0%</i>

EPA Reg. No. 352-561

U.S. Patents 4,547,215, 4,481,029 and 4,394,506

Keep Out of Reach of Children

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Caution! Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

Statement of Practical Treatment

If in eyes:

Flush eyes with plenty of water. Call a physician if irritation persists.

If on skin:

Wash with plenty of soap and water. Get medical attention if irritation persists.

For medical emergencies involving this product, call toll-free 1-800-441-3637.

Environmental Hazards

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater. Do not apply where/when conditions favor runoff.

DIRECTIONS FOR USE

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

For Use on Soybeans Only

APPLICATION INFORMATION

Du Pont CONCERT SP Herbicide is a dispersible granule formulation premeasured in a 2-ounce pack which readily dissolves in water.

Rate

Apply CONCERT SP at a rate of 1 Soluble Pack per 4 treated acres for selective postemergence broadleaf weed control.

When to Apply

CONCERT SP performs best when applied to small weeds a few weeks after planting.

Timing to Crop Stage

- CONCERT SP may be applied to soybeans any time after the first trifoliolate has expanded fully.
- Apply no later than 60 days before harvest.

Timing to Weeds

- Apply CONCERT SP when weeds are young and actively growing (after the first true leaves have expanded, but before the weeds exceed the size indicated in the table below).
- Applications made to weeds that are in the cotyledon stage, larger than the size indicated, or to weeds under stress may result in unsatisfactory control.

When applied as directed, CONCERT SP will control the following weeds:

Weeds Controlled	Height(Inches) at Application												
	1	2	3	4	5	6	7	8	9	10	11	12	13
Annual Smartweeds 2 - 8"	[Dotted pattern]												
Cocklebur 2 - 4"	[Dotted pattern]												
Jimsonweed 2 - 5"	[Dotted pattern]												
Lambsquarters 2 - 4"	[Dotted pattern]												
Pigweed species 2 - 12"	[Dotted pattern]												
Velvetleaf 2 - 8"	[Dotted pattern]												
Wild Mustard up to 4" in dia.	[Dotted pattern]												
Wild Sunflower 2 - 8"	[Dotted pattern]												
Weeds Suppressed													
Morningglory species	[Dotted pattern]												
Entireleaf 1 - 2"	[Dotted pattern]												
Ivyleaf 1 - 2"	[Dotted pattern]												
Pitted 1 - 2"	[Dotted pattern]												
Smallflower 1 - 2"	[Dotted pattern]												
Tall 1 - 2"	[Dotted pattern]												
Common Ragweed 1 - 3"	[Dotted pattern]												

* Weed suppression is a visual reduction in weed competition (reduced population, size, and/or vigor) as compared to an untreated area. Degree of control can be increased by treating weeds when actively growing and not under stress.

Spray Additives

Applications of CONCERT SP must include a nonionic surfactant or crop oil concentrate, and an ammonium nitrogen fertilizer.

Nonionic Surfactant

- Apply at the rate (concentration) of 0.125%-0.25% v/v (1-2 pt per 100 gal of spray solution).
- Use of the higher rate of nonionic surfactant, particularly under hot humid conditions, may result in temporary crop injury.
- Use only EPA-approved surfactants containing at least 80% active ingredient authorized for use on food crops.
- Do Not Use Dash¹.

Crop Oil Concentrate

Under dry conditions or during cool weather, a crop oil concentrate at 0.5% v/v (4 pt/100 gal of spray solution) may be used in place of a nonionic surfactant to enhance weed control.

- Use a petroleum-based crop oil concentrate (0.5% v/v) with at least 15% emulsifiers/surfactant.
- The use of crop oil concentrate may result in temporary crop injury.

Ammonium Nitrogen Fertilizer

An ammonium nitrogen fertilizer is required in addition to a surfactant or a crop oil concentrate.

- Use a high-quality liquid nitrogen fertilizer such as 28-0-0 at a rate of 2-4 quarts per acre, or 10-34-0 at a rate of 1-2 quarts per acre.
- Use the lower rate for spray volumes less than 15 gallons per acre.
- Alternately, a high-quality, sprayable grade of ammonium sulfate (21-0-0) may be used at a rate of 2-4 pounds per acre.

Mixing Instructions

Five Soluble Packs are contained in a waterproof, resealable plastic bag, with three plastic bags enclosed in a cardboard box. The individual Soluble Packs will dissolve completely in water. Open the outer resealable plastic bag, remove the number of required Soluble Packs for the application rate of one 2-ounce Soluble Pack per 4 treated acres, and drop them into the spray tank as directed below.

Soluble Pack Handling Precautions:

- The outer resealable plastic bag is NOT soluble in water. DO NOT place it in the spray tank.
- Excessive handling of the packs, or exposure to moisture, will cause breakage.
- Do not touch the packs with wet hands or place them on wet surfaces.
- Protect unused Soluble Packs by resealing them in the plastic bag.

To use the Soluble Packs:

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required number of CONCERT SP Soluble Packs (1 Soluble Pack/4 acres).
3. The packs should dissolve completely within 5 minutes. Continue adequate agitation.
4. CONCERT SP should be thoroughly mixed with water in the spray tank before adding any other material (e.g. surfactant, crop oil concentrate, or nitrogen fertilizer). As the tank is filling and after the Soluble Packs have dissolved, add the required spray adjuvants.
5. Apply CONCERT SP spray preparation within 24 hours of mixing to avoid product degradation.
6. If the mixture has settled, thoroughly reagitrate before using.

Tank Mix Applications

Do not tank mix CONCERT SP with any other pesticide or spray adjuvant except as specified on this or other supplemental labeling.

-) CONCERT SP may be tank mixed with post grass herbicides such as Du Pont's ASSURE® II Herbicide.

Under certain conditions, CONCERT SP may reduce the activity of the post grass herbicide. The broadleaf activity of CONCERT SP will not be affected. Refer to the grass herbicide label for specific use information and precautions.

Include a nonionic surfactant with the tank mix of CONCERT SP and post grass herbicides such as ASSURE II.

- Surfactant rate (concentration) should be 0.125%-0.25% v/v (1-2 pints per 100 gallons of spray solution).
- Use of a higher rate of nonionic surfactant, particularly under hot, humid conditions, may result in temporary crop injury.
-) • Do not use DASH¹ or crop oil concentrate when tank mixing CONCERT SP with postemerge grass herbicides.

The amount of ASSURE II to be used in a tank mix with CONCERT SP will be determined by the grasses present. When applied as directed, a tank mix of CONCERT SP and ASSURE II will control the following grasses:

CONCERT SP + 5 oz of ASSURE II per acre	
<i>Grass</i>	<i>Size (Height) inches</i>
<i>volunteer corn</i>	6 - 18
<i>shattercane</i>	6 - 12
<i>giant foxtail</i>	2 - 4
<i>seedling johnsongrass</i>	2 - 8

CONCERT SP + 7 oz of ASSURE II per acre

<i>Grass</i>	<i>Size (Height) inches</i>
<i>wild proso millet</i>	2 - 6

CONCERT SP + 9 oz of ASSURE II per acre

<i>Grass</i>	<i>Size (Height) inches</i>
<i>fall panicum</i>	2 - 6
<i>green foxtail</i>	2 - 4
<i>bristly foxtail</i>	2 - 4
<i>field sandbur</i>	2 - 6
<i>volunteer cereals</i>	2 - 6

CONCERT SP + 10 oz of ASSURE II per acre

<i>Grass</i>	<i>Size (Height) inches</i>
<i>rhizome johnsongrass</i>	10 - 24

Do not tank mix CONCERT SP with organophosphate insecticides, or apply CONCERT SP within 14 days before or after an application of an organophosphate insecticide, as severe crop injury may occur.

APPLICATION EQUIPMENT

Many crops are highly sensitive to CONCERT SP. All direct or indirect contact (such as spray drift) with crops other than soybeans should be avoided.

**Ground Application
(See also Spray Drift)**

Broadcast Application

- Use 10-25 gallons of water per acre.
- Use flat fan nozzles at 25-60 psi.
- Do not use flood, hollow cone, rain drop, whirl chamber, or controlled droplet applicator (CDA) type nozzles. Unacceptable crop injury, excessive spray drift, or poor weed control may result.
- For proper spray coverage, adjust the boom and nozzle height according to the specifications listed by the nozzle manufacturer.

Band Application

- For band application, use proportionately less spray mixture.
- To avoid crop injury, carefully calibrate the band applicator not to exceed the labeled rate.
- Carefully follow the manufacturer's instructions for nozzle types (flat fan nozzles preferred), nozzle orientation, distance of the nozzles from the crop and weeds, spray volumes, calibration, and spray pressure.
- For additional information on row banders, see Du Pont's bulletin, "Application Accuracy Row Banders."

Aerial Application (See also Spray Drift)

- Use nozzle types and arrangements that will provide for optimum spray distribution and maximum coverage at 5 to 10 GPA.
- Do not apply during a temperature-inversion condition, when winds are gusty, or when other conditions will favor poor coverage and/or off-target spray movement.
- Use a minimum of 5 gallons of water per acre.

ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

CONCERT SP provides best postemergence results when applied to young, actively growing weeds. Degree of control and duration of effect depend on: application rate, weed spectrum, weed size, growing conditions at and following time of treatment, soil moisture, precipitation, and spray adjuvants. Some weeds, such as lambsquarters, are more affected by stress than others. Delay application until stress passes and weeds start to grow again.

) Treating weeds under stress or large weeds may result in only partial control. Conditions that are conducive to healthy, actively growing plants optimize the performance of CONCERT SP.

- If rain is expected within 1 hour, do not apply CONCERT SP, or weed control may be decreased.
- Applications made during or immediately following periods of abnormally cold weather for soybeans may result in less than satisfactory weed control.
- Poor weed control or crop injury may result from applications made to plants under stress from
 - abnormal hot or cold weather,
 - growing conditions such as drought or water-saturated soil,
 - disease, or
 - nematode, insect, or prior herbicide injury.

) Delay application until stress passes and weeds and soybeans resume growth. Severe stress from conditions immediately following application may also result in crop injury or poor weed control.

- Applications during periods of hot and humid weather increase the risk of crop injury. Wilting, temporary leaf yellowing, reddened veins, and/or growth retardation of soybeans may follow application of CONCERT SP. The growth retardation is generally in the form of shortened internode spacing. These effects will generally be most evident 5-7 days after application. The soybeans will recover quickly under favorable growing conditions.

CONCERT SP rapidly inhibits the growth of susceptible weeds, reducing weed competition hours after application. Leaves turn yellow 5-7 days after postemergence application, followed by death of the weed's growing point. Susceptible plants are controlled in 7-21 days. Death of leaf tissue will follow in some species, while others will remain green but stunted and noncompetitive.

CULTIVATION

A timely cultivation may be necessary to control suppressed weeds, weeds that were beyond the maximum size at the time of application, or weeds that emerge after an application of CONCERT SP.

- Do not cultivate before, during, or within 7 days after the application.
- Cultivation may decrease weed control by pruning roots and placing the weed under stress.
- The best time to cultivate is approximately 14 days after application.

CROP ROTATION

Rotational Crop Intervals for CONCERT SP

The following rotational intervals must be observed when using CONCERT SP:

<i>Crop</i>	<i>Rotational Interval In Months</i>
<i>Soybeans</i>	<i>Anytime</i>
<i>Cereal Grains</i>	<i>3</i>
<i>Ryegrass</i>	<i>3</i>
<i>Field Corn *</i>	<i>9</i>
<i>Cotton</i>	<i>9</i>
<i>Alfalfa</i>	<i>9</i>
<i>Clover</i>	<i>9</i>
<i>Dry Beans</i>	<i>9</i>
<i>Sorghum</i>	<i>9</i>
<i>Peanut</i>	<i>6</i>
<i>Rice</i>	<i>9</i>
<i>Tobacco (transplant)</i>	<i>9</i>
<i>Tomato (transplant)</i>	<i>9</i>

* When using CONCERT SP Herbicide, the term "FIELD CORN" is defined to include only that corn grown for grain or silage, popcorn, and seed corn relative to the Rotational Crop Guidelines section of this label.

Field Bioassay for Other Crops

All other crops require a successful field bioassay. The suggested interval before initiating a bioassay is 9 months. If the crop you want to plant does not appear in the table above, you must complete a successful field bioassay during the season before planting. The field bioassay will detect small quantities of CONCERT SP that can remain in the soil and could potentially injure rotational crops. A successful field bioassay means growing to maturity a test strip of crop(s) intended for production the following year. The test strip should cross the whole field, including knolls and low areas.

SPRAYER PREPARATION AND CLEANUP

It is important that spray equipment is clean and free of previous pesticide deposits before using CONCERT SP, and then properly cleaned out following application. Clean all application equipment before applying CONCERT SP. Follow the cleanup procedures specified on the label of the product previously sprayed. If no cleanup procedure is provided, use the procedure that follows. Immediately following applications of CONCERT SP, thoroughly clean all mixing and spray equipment to avoid applications to crops other than soybeans.

Notes

- When cleaning spray equipment before applying CONCERT SP, read and follow label directions for proper rinsate disposal of the product previously sprayed.
- A steam cleaning of aerial spray tanks is recommended to dislodge any visible pesticide deposits.
- When spraying or mixing equipment will be used over an extended period to apply multiple loads of CONCERT SP, partially fill the tank with fresh water at the end of each day of spraying, flush the boom and hoses, and allow to sit overnight.

Cleanup Procedure

1. Drain the tank and thoroughly hose down the interior surfaces. Flush the tank, hoses, and boom with clean water for a minimum of 5 minutes.
2. Partially fill the tank with clean water and add one gallon of household ammonia* (containing 3% active) for every 100 gallons of water. Finish filling the tank with water, then flush the cleaning solution through the hoses, boom, and nozzles. Add more water to completely fill the tank and allow to agitate/recirculate for at least 15 minutes. Again, flush the hoses, boom, and nozzles with the cleaning solution, then drain the tank.
3. Repeat Step 2.

4. Remove the nozzles and screens and clean separately in a bucket containing the cleaning agent and water.
5. Thoroughly rinse the tank with clean water for a minimum of 5 minutes, flushing the water through the hoses and boom.

* Equivalent amounts of an alternate strength ammonia solution may be used, or a tank cleaner recommended in the DuPont bulletin "Sulfonylurea Herbicides. A Guide to Equipment Cleanout."

SPRAY DRIFT

Do not allow spray from either ground or aerial equipment to drift onto adjacent crops or land, as injury to other plants may occur. The minimization of pesticide drift is the responsibility of the applicator. When spraying adjacent to crops other than soybeans, minimize the spray drift potential by following these practices:

- Stop spraying if wind speed becomes excessive. Spray drift can occur at wind speeds less than 10 MPH. Do not spray if sensitive crops are downwind. Do not spray if winds are gusty.
- High temperatures, drought, and low relative humidity increase the possibility of spray drift. Regardless of wind speed, extreme caution must be used when these conditions are present and sensitive crops or plants are nearby.
- Do not apply when a temperature inversion exists. An inversion is characterized by low air movement and an increase in air temperature with an increase in altitude. In humid regions, a fog or mist may form. An inversion may be detected by producing a smoke column and checking for a layering effect. Smoke-producing devices on aircraft are recommended. If not sure whether inversion conditions are present, consult with local weather services before making an application.

To further reduce drift from aerial or ground equipment:

1. Use large-droplet size sprays to minimize drift. Do not use hollow-cone nozzles on ground equipment. Do not use nozzles that produce very small droplets, such as airblast-type nozzles. For ground applications, nozzles should be oriented at an angle between straight down and straight back. For aerial applications, orient nozzles straight back along the windstream. If using flood-type nozzles on aircraft, orient the nozzles so spray is produced in direction of the airstream.
2. Increase volume of spray mix per acre (for example, 10 GPA by air, 25 GPA by ground) by using higher-flow-rate nozzles.
3. Reduce pressure (PSI). Do not exceed 60 psi when applying CONCERT SP. (Vehicle speed must also be reduced to maintain the proper application rate per acre.) Consult manufacturers' catalogs for details on correct calibration.
4. Apply as close to target plants as possible while still maintaining a good spray pattern.

9279

IMPORTANT PRECAUTIONS

- Use of CONCERT SP is not permitted in the state of North Dakota or that area of Minnesota north and west of highways MN 27 and US 71.
- CONCERT SP Herbicide should be used only in accordance with recommendations on this label or in separately published Du Pont recommendations.
- Injury to or loss of desirable trees or vegetation may result from failure to observe the following:
 - Do not apply or 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.
 - Thoroughly clean application equipment immediately after use. (Refer to Sprayer Preparation and Cleanup section of this label.)
 - Do not graze or feed forage, hay or straw from treated areas to livestock.
 - Do not apply this product through any type of irrigation system.
 - Du Pont will not be responsible for losses or damages resulting from the use of this product in any manner not specifically recommended by Du Pont. CONCERT SP rapidly inhibits the growth of susceptible weeds, reducing weed competition hours after application. Leaves turn yellow 5-7 days after postemergence application, followed by death of the weed's growing point. Susceptible plants are controlled in 7-21 days. Death of leaf tissue will follow in some species, while others will remain green but stunted and noncompetitive.

STORAGE AND DISPOSAL

Storage: Store product only in original container, away from other pesticides, fertilizer, food or feed.

Product Disposal: Do not contaminate water, food or feed by storage or disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Do not reuse the outer box or the resealable plastic bag. When all water-soluble packets are used, the outer packaging should be clean and may be disposed of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. If the resealable plastic bag contacts the formulated product in any way, the bag must be triple-rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer wrap as described above.

Notice to Buyer: Purchase of this material does not confer any rights under patents of countries outside of the United States.

NOTICE OF WARRANTY

Du Pont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Du Pont. In no case shall Du Pont be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. DU PONT MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESSED OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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