

PM-23 100-677
~~100-677~~

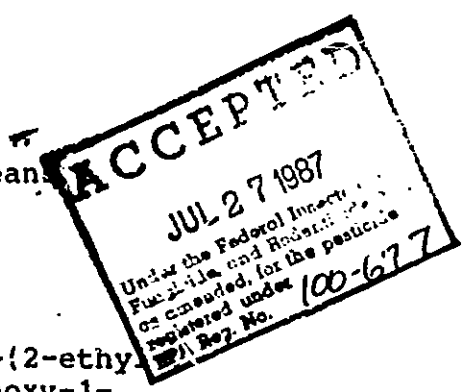
P. 1/1

LABELMASTER BOOKLET - FRONT PANEL

DUET™

Herbicide

For weed control in soybeans



*OK for Linuron
according to NRE letter
7/20/87*

Active Ingredients:	
Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide	44.3%
Linuron: [3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea]	17.7%
<u>Inert Ingredients:</u>	<u>38.0%</u>
<u>Total:</u>	<u>100.0%</u>

Duet contains 5.6 lbs. active ingredient per gallon.

Keep Out of Reach of Children

WARNING/AVISO

PRECAUCIÓN AL USARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

See additional precautionary statements inside booklet.

See directions for use inside booklet.

EPA Reg. No. 100-

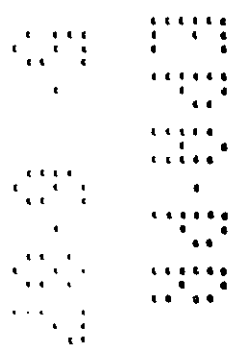
EPA Est. 100-

Duet™ trademark of CIBA-GEIGY Corporation

2 1/2 Gallons
U.S. Standard Measure

Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA



p. 2/11

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

.....
.....
.....
.....
.....
.....
.....
.....
.....

DIRECTIONS FOR USE

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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR ILLEGAL RESIDUES.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons, except those knowingly involved in the application. The area being treated must be vacated by unprotected persons.

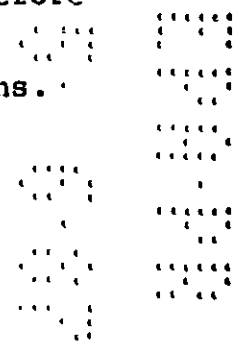
Reentry Statement

Do not enter treated areas without protective clothing until sprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must inform workers of areas or fields that may not be entered without specific protective clothing until sprays have dried, and appropriate actions to take in case of accidental exposure as described under Precautionary Statements on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "WARNING. Area treated with Duet on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, flush eyes or skin with plenty of water. Call a physician if irritation persists. Remove and wash contaminated clothing before reuse."

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.



P. 4/11

General Information

Duet is a selective herbicide which is mixed with water and applied as a preemergence treatment to control most annual grasses and certain broadleaf weeds in soybeans.

Dry weather following a preemergence application may reduce effectiveness. If weeds develop, a shallow cultivation (rotary hoe preferred) should be made after soybean emergence while weeds are small enough for mechanical control.

Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor, or consistent control at a level below that generally considered acceptable for commercial weed control.

Prepare a good seed bed. Soybeans cannot be properly planted in cloddy or compacted soil and crop injury may result following the preemergence application. Do not cultivate before soybean emergence, except as noted above, as weed control may be reduced and crop injury may result.

Precaution: Crop injury may occur following the use of Duet if heavy rainfall occurs soon after application.

Thoroughly clean sprayer prior to use. Do not use a sprayer contaminated with any other materials, or crop damage or sprayer clogging may result.

Mixing Instructions

Mix Duet with water and apply as a spray. Fill the spray tank one-half to three-fourths full with water, add the proper amount of Duet, then add the rest of the water. Provide sufficient agitation during mixing and application to maintain a uniform emulsion.

Important: When mixing/loading and spraying wear a wide-brimmed hat, mid-forearm to elbow length chemical resistant gloves, and one-piece overalls which have long sleeves and long pants. Overalls should be constructed of finely woven fabric as specified in the USDA/EPA Guide for Commercial Applicators.

Any article of clothing worn while applying product must be cleaned before reusing. Clothing which has been drenched or has otherwise absorbed concentrated pesticide must be disposed of in a sanitary landfill, or incinerated, or if allowed by state and local authorities, by burning.

Finney

352-272
resisting
1/16/57

.....
.....
.....
.....
.....
.....
.....

Instead of clothing and equipment specified above, the applicator can use an enclosed tractor cab which provides a filtered air supply (as described by Taschenberg and Bourke, 1975).

Application Procedures

Ground Application: Apply in a minimum of 10 gals. of spray mixture per acre. Use sprayers that provide accurate and uniform application. Avoid overlapping, and shut off spray booms when starting, turning, slowing or stopping, or soybean injury may result. Rinse sprayer thoroughly with clean water immediately after use.

Calculate the amount of herbicide needed for band treatment by the formula:

Y. Smith ✓

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

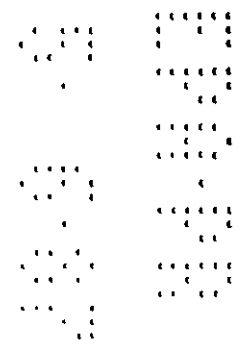
✓

Do not apply aerially.

Chemigation: Do not apply this product through any type of irrigation system.

Soybeans

Apply Duet during planting (behind the planter) or after planting, but before weeds or soybeans emerge, using the appropriate rate from Table 1. To avoid crop injury, plant seed at least 1 3/4 inches deep on flat or raised seedbeds only.



Weeds Controlled

barnyardgrass
 crabgrass
 crowfootgrass
 fall panicum
 foxtail millet
 giant foxtail
 goosegrass
 green foxtail
 prairie cupgrass
 red rice
 signalgrass (Brachiaria)
 southwestern cupgrass
 witchgrass
 yellow foxtail
 yellow nutsedge
 black nightshade
 carpetweed
 Florida pusley
 galinsoga
 pigweed
 lambsquarters
 prickly sida
 common ragweed
 smartweed
 Venice mallow
 wild mustard

Weeds Partially Controlled

volunteer sorghum
 Texas panicum
 shattercane
 seedling johnsongrass
 sandbur
 hairy nightshade
 Florida beggarweed
 common purslane
 cocklebur
 jimsonweed
 morningglory
 velvetleaf

Table 1: Duet - Soybeans

Soil Texture	Broadcast Rate Per Acre	
	0.5% to Less than 3% Organic Matter	3 to 6% Organic Matter
Sandy Loam	2.5 pts.	3.0 pts. ✓
Loam, Silt Loam, Silt	3.0 pts.	4.0 pts.

Precautions: To avoid crop injury, (1) Do not apply to fields with standing water or to fields too wet to cultivate, (2) Do not use on sands or loamy sand or any soil containing less than 0.5% organic matter, (3) Do not use on gravelly soils or exposed subsoils, and (4) Do not spray over the top of emerged soybeans. (5) Do not apply to fine textured soils or those with greater than 6% organic matter since unacceptable weed control may occur.

BEST AVAILABLE COPY

*15lb/acre in 1957
 2.5 - 3.0 - 4.0
 7.2
 4.0/2 = 2.5 lb
 a. 1.25*

thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Statement of Practical Treatment

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water. Call a physician if irritation occurs.

If inhaled: Remove victim to fresh air.

If on skin: Wash with plenty of soap and water.

If swallowed: Do not induce vomiting. Give plenty of water to drink and call a physician or Poison Control Center. Do not give anything by mouth to an unconscious person.

Notes to Physician: There is no specific antidote if Duet is ingested. Lavage stomach with care to avoid aspiration. Treatment with an aqueous slurry of activated charcoal can be considered. Treat symptomatically.

Environmental Hazards

Do not apply directly to water or wetlands (swamps, bogs, marshes, potholes). Do not contaminate water by cleaning of equipment or disposal of wastes.

Groundwater and Surface Water Advisory

Metolachlor has been identified in limited sampling of groundwater and there is the possibility that it may leach through the soil to groundwater, especially where soils are coarse and ground water is near the surface. Following application and during rainfall events that cause runoff, metolachlor may reach surface water bodies including streams, rivers and reservoirs.

Care must be taken when using this product to prevent back siphoning into wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Check valves or antisiphoning devices must be used on all mixing and/or irrigation equipment.

©1987 CIBA-GEIGY Corporation
Duet™ trademark of CIBA-GEIGY Corporation

Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

P. 9/11

BACK LABEL

DUET™

Herbicide

For weed control in soybeans

Active Ingredients:

Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide	44.3%
Linuron: [3-(3,4-dichlorophenyl)-1-methoxy-1-methylurea]	17.7%
<u>Inert Ingredients:</u>	<u>38.0%</u>
<u>Total:</u>	<u>100.0%</u>

Duet contains 5.6 lbs. active ingredient per gallon.

See directions for use inside attached booklet.

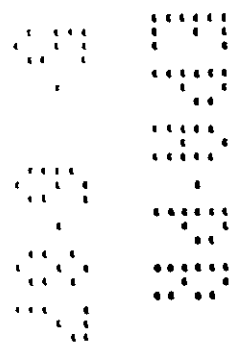
EPA Reg. No. 100-

EPA Est. 100-

Duet™ trademark of CIBA-GEIGY Corporation

© 1987 CIBA-GEIGY Corporation

2 1/2 Gallons
U.S. Standard Measure



P. 10/11

Keep Out of Reach of Children.

WARNING/AVISO

PRECAUCIÓN AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

Causes substantial but temporary eye injury. Wear goggles or safety glasses. Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Statement of Practical Treatment

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water. Call a physician if irritation occurs.

If inhaled: Remove victim to fresh air.

If on skin: Wash with plenty of soap and water.

If swallowed: Do not induce vomiting. Give plenty of water to drink and call a physician or Poison Control Center. Do not give anything by mouth to an unconscious person.

Notes to Physician: There is no specific antidote if Duet is ingested. Lavage stomach with care to avoid aspiration. Treatment with an aqueous slurry of activated charcoal can be considered. Treat symptomatically.

Continued ... 11.

P. 11/11

Environmental Hazards

Do not apply directly to water or wetlands (swamps, bogs, marshes, potholes). Do not contaminate water by cleaning of equipment or disposal of wastes.

Groundwater and Surface Water Advisory

Metolachlor has been identified in limited sampling of groundwater and there is the possibility that it may leach through the soil to groundwater, especially where soils are coarse and ground water is near the surface. Following application and during rainfall events that cause runoff, metolachlor may reach surface water bodies including streams, rivers and reservoirs.

Care must be taken when using this product to prevent back siphoning into wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Check valves or antisiphoning devices must be used on all mixing and/or irrigation equipment.

✓

Container Disposal

Do not reuse empty container. Triple rinse (or equivalent), puncture and dispose of in a sanitary landfill, or by incinerator, or if allowed by state and local authorities, by burning. Keep out of smoke from burning containers.

Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA

May 1, 1987

