

5905-496

03/11/2005

1/8

Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95



United States
Environmental Protection Agency
Washington, DC 20460

 Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 5905-496	2. EPA Product Manager	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) 1.5LB Benfluralin EC	PM#	
5. Name and Address of Applicant (Include ZIP Code) Helena Chemical Company 225 Schilling Boulevard, Suite 300 Collierville, Tennessee 38017 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION MAR 11 2005
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Other Revisions
Notification of Other Revisions per PR Notice 98-10. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input checked="" type="checkbox"/> On Label	
6. Manner in Which Label is Affixed to Product Self Adhesive			<input checked="" type="checkbox"/> Lithograph Paper glued Stenciled	<input type="checkbox"/> Other _____	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Mandy K. Styles	Title Product Registration Supervisor	Telephone No. (Include Area Code) 901/752-4421
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Product Registration Supervisor	
4. Typed Name Mandy K. Styles	5. Date 3/1/2005	

MAR 11 2005

1.5 LB. BENFLURALIN E.C.

Herbicide

ACTIVE INGREDIENT:

Benfluralin: N-butyl-N-ethyl-a,a,a-trifluoro-2,6-dinitro-p-toluidine.....19.1%

INERT INGREDIENTS:.....80.9%

TOTAL.....100.0%

This product contains 1.5 pounds benfluralin per gallon.

KEEP OUT OF REACH OF CHILDREN

DANGER – PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand the label, find someone to explain it to you in detail.)

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER - PELIGRO

Corrosive. Causes eye damage. Do not get in eyes. Wear goggles or face shield when handling concentrate. Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious or convulsing person.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment

HOT LINE NUBMER

Have the product container with you when calling a poison control center or doctor, or going for treatment. In case of emergency, call ChemTrec at 800-424-9400.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate gastric lavage. Contains petroleum distillates – may pose aspiration pneumonia hazard.

SEE INSIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG. NO. 5905-496

NET CONTENTS:

EPA EST. NO

MANUFACTURED BY

HELENA CHEMICAL COMPANY

225 SCHILLING BOULEVARD, SUITE 300

COLLIERVILLE TENNESSEE 38017

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as Barrier Laminate or Viton Rubber
- Shoes plus socks
- Protective eyewear

Engineering Control Statement

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS."

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down."

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not contaminate any body of water by direct application, cleaning of equipment or disposal of wastes.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

Shoes plus socks
Protective eyewear

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult agency responsible for pesticide regulation.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal. Avoid freezing. Store above 40°F.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticides, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical Resistant Gloves Category G

USE PRECAUTIONS

Applied according to directions and under normal growing conditions, 1.5 LB. BENFLURALIN E.C. will not harm the treated crop. Over application may result in stunting, crop injury or soil residue. Uneven application or improper soil incorporation of 1.5 LB. BENFLURALIN E.C. can result in erratic weed control or crop injury. Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration or drought may weaken crop seedlings and increase the possibility of damage from 1.5 LB. BENFLURALIN E.C. Under these conditions, delayed crop development or reduced yields may result.

In the arid, irrigated areas of the Western United States – Arizona, California, Idaho, Montana, Nevada, Oregon, Utah, Washington and Wyoming – certain crops are susceptible to injury when planted in soil previously treated with 1.5 LB. BENFLURALIN E.C. To avoid such injury, do not plant wheat, barley, rye, other grasses, or onion within 10 months following a 1.5 LB. BENFLURALIN E.C. application. Milo (grain sorghum), corn, oats, spinach, red beet, sugar beet, other root crops should not be planted within 12 months following a 1.5 LB. BENFLURALIN E.C. application.

GENERAL INFORMATION

1.5 LB. BENFLURALIN E.C. is a preemergence herbicide which is soil incorporated to provide season long control of many annual grasses and broadleaf weeds throughout the growing season. Incorporation of 1.5 LB. BENFLURALIN E.C. helps assure effective weed control. 1.5 LB. BENFLURALIN E.C. controls weeds as they germinate.

SOIL TEXTURE GUIDE

The amount of 1.5 LB. BENFLURALIN E.C. applied will vary with the soil texture. A fine textured soil generally requires more 1.5 LB. BENFLURALIN E.C. than a coarse textured soil. 1.5 LB. BENFLURALIN E.C. is not recommended for use on muck or other soils high in organic matter content.

Refer to the following table to determine soil classification.

Soil Texture	Soil Classification
Coarse	Sand
	Loamy Sand
	Sandy Loam
	Loam
Medium	Silty clay loam*
	Silt loam
	Silt
	Sandy clay loam*
	Clay
Fine	Clay loam
	Silty clay loam*
	Silty clay
	Sandy clay
	Sandy clay loam*

*Silty clay loam and sandy clay loam soils are transitional soils and may be classified as either medium or fine textured soils. If silty clay loam or sandy clay loams are predominately sand or silt, they are usually classified as medium textured soils; if predominately clay, they are usually classified as fine textured soils.

SOIL PREPARATION

Destroy existing weeds before a 1.5 LB. BENFLURALIN E.C. application. Chop and thoroughly mix crop residues into the soil to a depth of 4 to 6 inches by deep plowing or discing before a 1.5 LB. BENFLURALIN E.C. application. Use machinery that breaks up large clods before a 1.5 LB. BENFLURALIN E.C. application.

GENERAL MIXING DIRECTIONS

Use the following instructions for mixing 1.5 LB. BENFLURALIN E.C. Liquid Concentrate (L.C.) alone in water and tank mixed in water.

General Mixing Instructions in Water Alone: Start with a clean sprayer. Fill the spray tank 1/3 to 1/2 full with clean water. Start agitation. Add the correct quantity of 1.5 LB. BENFLURALIN E.C., continue agitation, and finish filling the tank.

General Tank Mix Instructions: Vigorous, continuous agitation is required for all tank mixes. (Sparger pipe agitators generally provide the best agitation in spray tanks). During filling, to prevent foaming, avoid stirring or splashing air into the mixture by placing the end of the fill pipe below the surface of the water in the spray tank. Do not allow the mixture to siphon back into the water source.

Mixing Order: Fill the tank 1/4 to 1/3 full with clean water. Start the agitation. Add dry flowables (DF), flowables (F), liquids (L), aqueous suspensions (AS), or wettable powders (WP) to the water and agitate until the product(s) are completely dispersed in the water. Allow additional mixing and dispersion time when using DF products. Continue agitation and fill tank 3/4 full. Add the 1.5 LB. BENFLURALIN E.C., mix thoroughly, then add any solutions (S), agitate and finish filling. Maintain agitation from filling through application. If spraying and agitation must be stopped before the tank is empty, the material may settle to the bottom. In this case, it is important to resuspend all of the material in the bottom of the tank before continuing the spray application. Sometimes it is more difficult to resuspend settled material than it is to suspend them originally. A sprager agitator is particularly useful for this purpose.

Read and carefully follow all label instructions for each material added to the tank. Premixing dry and flowables formulations with water (slurrying) and pouring the slurry through a 20 or 35 mesh wetting screen in the top will help assure good initial dispersion in the tank water. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

If a buildup of material is seen on the walls of the spray tank, wash the tank with soapy water between fillings. Rinse and continue the spraying operation. Clean tank, lines, and screens thoroughly after use. 4/8

APPLICATION DIRECTIONS

Apply 1.5 LB. BENFLURALIN E.C. anytime after January 1 when the soil can be worked. Add the recommended amount of 1.5 LB. BENFLURALIN E.C. to clean water in the spray tank during the filling operation. (See General Mixing Instructions). Apply in 5 to 40 gallons of spray volume per acre (broadcast basis). Use any properly calibrated low pressure herbicide sprayer that will apply the spray uniformly. As the amount of spray volume decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily to insure proper calibration and uniform application. Apply 1.5 LB. BENFLURALIN E.C. to the soil surface and incorporate within the recommended time.

1.5 LB. BENFLURALIN E.C. should not be applied to soils which are wet or are subject to prolonged periods of flooding as poor weed control may result.

INCORPORATION DIRECTIONS

1.5 LB. BENFLURALIN E.C. must be incorporated one time within 8 hours after application, except in certain areas of the Western United States (see Special Note below). A second incorporation is required with most equipment (see below). If 1.5 LB. BENFLURALIN E.C. is applied to a wet, warm soil surface or if the wind velocity is 10 mph or higher, variable weed control may result from delaying the first incorporation beyond 8 hours in the Eastern United States and 4 hours in the Western United States. Incorporation should place the 1.5 LB. BENFLURALIN E.C., into the top 2 to 3 inches of the final seedbed. Place 1.5 LB. BENFLURALIN E.C. to a depth of 3 inches for more effective control of Texas panicum. Generally, incorporation equipment will mix 1.5 LB. BENFLURALIN E.C. approximately half as deep as the equipment is run. For example, a disc running 4 inches deep will incorporate 1.5 LB. BENFLURALIN E.C. into approximately the top 2 inches.

SPECIAL NOTE: In the Western United States, extremely high temperatures and intense sunlight may be present at the time of application. Therefore, 1.5 LB. BENFLURALIN E.C. must be incorporated into the soil within 4 hours after application to prevent loss of activity.

INCORPORATION EQUIPMENT

Use machinery that mixes 1.5 LB. BENFLURALIN E.C. thoroughly with the soil. Shallow incorporation with implements set to mix 1.5 LB. BENFLURALIN E.C. less than 2 inches deep in the final seedbed may result in erratic weed control. Use of incorporation equipment not listed below may result in poor or erratic weed control and/or crop injury.

Recommended equipment includes:

Disc set to cut 4 to 6 inches deep and operated in 2 different directions at 4 to 6 mph. A tandem or double disc operated one time does not provide adequate incorporation.

Power take off driven equipment (tillers, cultivators, hoes) set to incorporate. 1.5 LB. BENFLURALIN E.C. in the top 2 to 3 inches of the final seedbed. P.T.O. driven equipment should be operated one time at a speed not greater than 4 mph.

PRECAUTION:

Power take off driven equipment used alone as the incorporation implement in coarse soils may cause an uneven distribution of 1.5 LB. BENFLURALIN E.C. This occurs when the wheel track depression is below the penetrating depth of the tines on the tiller. This may result in an excessive amount of 1.5 LB. BENFLURALIN E.C. in the tractor wheel depression area and poor weed control in the diluted areas.

Where this condition exists, a tandem disc should be used on coarse soils for the incorporation of 1.5 LB. BENFLURALIN E.C.

CULTIVATION AFTER PLANTING

Soil treated with 1.5 LB. BENFLURALIN E.C. may be shallowly cultivated or rotary hoed without reducing the weed control activity of 1.5 LB. BENFLURALIN E.C. Do not cultivate deeper than the 1.5 LB. BENFLURALIN E.C. treated layer of soil since this may bring untreated soil to the surface and poor weed control may result.

WEEDS AND GRASSES CONTROLLED BY BALAN
1.5 LB. BENFLURALIN E.C. will not control established weeds.

GRASSES CONTROLLED

- Annual blue grass (*Poa annua*)
- Barnyardgrass (*Echinochloa spp.*)
- Watergrass
- Broadleaf signalgrass (*Brachiaria platyphylla*)
- (see Page 3 for special instructions)
- Crabgrass (*Digitaria spp.*)
- Large crabgrass
- Smooth crabgrass
- Crowfootgrass (*Dactyloctenium aegyptium*)
- Fall panicum (*Panicum dichotomiflorum*)
- Spreading panicgrass
- (See Page 3 for special instructions)
- Foxtails (*Setaria spp.*)
- Bottlegrass
- Bristlegrass
- Giant foxtail
- Green foxtail
- Pigeongrass
- Robust foxtail
- Yellow foxtail
- Goosegrass (*Eleusine indica*)
- Silver crabgrass
- Silvergrass
- Wiregrass
- Yardgrass
- Johnsongrass (*Sorghum halepense*)
- Seedling only
- Junglerice (*Echinochloa colonum*)
- Ryegrass (*Lolium multiflorum*)
- Annual ryegrass
- Italian ryegrass
- Sandbur (*Cenchrus incertus*)
- Burgrass

- Texas panicum
- Buffalograss
- Colorado grass

(*Panicum texanum*)

BROADLEAF WEEDS CONTROLLED

- Carpetweed (*Mollugo verticillata*)
- Chickweed (*Stellaria media*)
- Florida purslane (*Richardia scabra*)
- Florida pursley
- Mexican clover
- Pursley
- Knotweed (*Polygonum aviculare*)
- Lambsquarters (*Chenopodium album*)
- Pigweeds (*Amaranthus spp.*)
- Carelessweed
- Prostrate pigweed
- Redroot
- Rough pigweed
- Spiny pigweed
- Purslane (*Portulaca oleracea*)
- Redmaids (*Calandrinia caulescens*)

CROP RECOMMENDATIONS

These recommendations are given as the broadcast rate per acre of 1.5 LB. BENFLURALIN E.C. For band application, use proportionately less.

ALFALFA, BIRDSFOOT TREFOIL, CLOVER (Alsike, Ladino, Red)

Apply and incorporate 1.5 LB. BENFLURALIN E.C. before seeding at a broadcast rate per acre of 3 quarts on coarse and medium soils and 4 quarts on fine soils. Do not apply after seeding.

LETTUCE (Direct Seeded)

Apply and incorporate 1.5 LB. BENFLURALIN E.C. before seeding at a broadcast rate per acre of 3 quarts on coarse and medium soils and 4 quarts on fine soils. Do not apply after seeding.

APPLICATION WITH DRY BULK FERTILIZER

Dry bulk fertilizer may be impregnated or coated with 1.5 LB. BENFLURALIN E.C. Application of dry bulk fertilizer impregnated with 1.5 LB. BENFLURALIN E.C. has provided weed and grass control equal to the same rates of 1.5 LB. BENFLURALIN E.C. applies in liquid carriers.

Follow 1.5 LB. BENFLURALIN E.C. label recommendations regarding rates per acre, crops, incorporation directions, special instructions, cautions and special precautions.

Individual state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the fertilizer and chemical mixture.

LIMITATIONS

Apply a minimum of 200 pounds per acre of dry fertilizer impregnated with 1.5 LB. BENFLURALIN E.C. at the recommended rate. Most dry fertilizers can be used for 1.5 LB. BENFLURALIN E.C. impregnation. When coated ammonium nitrate and limestone are used alone, do not impregnate with 1.5 LB. BENFLURALIN E.C. These materials

will not absorb the herbicide. Blends containing mixtures of these materials can be impregnated.

IMPREGNATION

Use any closed drum, belt, ribbon or other commonly used dry bulk fertilizer blender. Nozzles used to spray the 1.5 LB. BENFLURALIN E.C. onto the fertilizer should be placed to provide uniform spray coverage. If less than 6 pints of 1.5 LB. BENFLURALIN E.C. are mixed per ton of fertilizer, add water to the 1.5 LB. BENFLURALIN E.C. to give a total volume of at least 6 pints per ton.

RATES

Check the crop section to determine the rate per acre of 1.5 LB. BENFLURALIN E.C. Calculate the amount of 1.5 LB. BENFLURALIN E.C. to be impregnated on a ton of dry bulk fertilizer based on the amount of fertilizer which will be applied per acre.

Quarts of 1.5 LB. BENFLURALIN E.C. X 2000 = Quarts of Per Ton
Per Acre lbs. Fertilizer of Fertilizer

APPLICATION

Spread the fertilizer/chemical normally with a properly calibrated applicator. Be certain the material is applied uniformly to the soil surface.

INCORPORATION

Follow recommended incorporation procedures for 1.5 LB. BENFLURALIN E.C.

APPLICATION WITH LIQUID FERTILIZERS

1.5 LB. BENFLURALIN E.C. may be mixed with most liquid fertilizer materials. Combination of 1.5 LB. BENFLURALIN E.C. with solutions and suspension type fertilizers has provided weed and grass control equal to the same rates of 1.5 LB. BENFLURALIN E.C. applied in water. Follow 1.5 LB. BENFLURALIN E.C. label recommendations regarding rates per acre, crops, incorporation directions, special instructions, cautions and special precautions.

Individual state regulations relating to liquid fertilizer mixing, registration, labeling and applications are the responsibility of the individual and/or company selling the fertilizer and chemical mixture.

LIQUID FERTILIZER MIXING INSTRUCTIONS

Liquid Concentrate in Liquid Fertilizer: Liquid concentrates, such as 1.5 LB. BENFLURALIN E.C., can be mixed with liquid fertilizers. In all cases, continuous agitation is required to prevent the 1.5 LB. BENFLURALIN E.C. from rising to the surface as an oily layer. When necessary, (see Liquid Fertilizer Compatibility Test below), a compatibility agent can be used to cause the 1.5 LB. BENFLURALIN E.C. to emulsify properly (i.e., have a milky appearance rather than oily layer). The use of compatibility agents is especially important when tank mixing liquid concentrates (LC) with dry flowables (DF), wettable powders (WP), flowables (F), liquids (L), aqueous suspensions (AS), or solutions (S) in liquid fertilizer. If the

emulsion is not properly formed, and the L.C. rises to the surface of the fertilizer as an oil ("oils out"), the oil may combine with the wettable powder, flowable, or suspension to form oily curds (viscous phase) which is difficult to redisperse. Any one of the compatibility agents listed below is helpful in causing liquid concentrates to form non-oiling mixtures with liquid fertilizers. These compatibility agents can be used at rates as low as 1 1/2 to 2 pints per ton of liquid fertilizer and should be mixed well with the fertilizer before adding the liquid concentrate. Read the label on the compatibility agent and follow the directions. 6/8

1. Sponto 168D (Witco Chemicals Co., Chicago, IL)
2. Compat (Farm Chemical, Inc., Aberdeen, NC)
3. Unite (Hopkins Ag Chemical, Madison, WI)
4. T-Mulz 734-2 (Thompson-Haywards Chemical Co.)
5. Rigo Compatibility Agent (Rigo Company, Buckner, KY)
6. Amoco Spray Mate™ (Amoco Oil Co., Chicago, IL)
7. Kem-Link (Universal Coop, Minneapolis, MN)

Each of the above is a phosphate ester type surfactant designed to be used with liquid fertilizers. They usually do not work well as compatibility agents in tank mixtures in plain water.

Testing for Tank Mix Compatibility in Liquid Fertilizers:

Liquid concentrates alone or in tank mixture with dry flowables (DF), wettable powders (WP), liquids (L), flowables (F), aqueous suspensions (AS), or solutions (S) may not combine properly with some fluid fertilizer materials. Small quantities should always be tested before full-scale mixing. This will determine whether a compatibility agent is needed, and which agent does the best job. The seven agents listed above have been thoroughly tested. There are many other surfactants on the market which were not designed for use with liquid fertilizers. Use the following test to select the correct agent for your mixture.

1. Put 1 pint of the liquid fertilizer in a quart jar.
2. Add 1 to 4 teaspoons of the DF, WP, L, F, or AS formulation (depending on the recommended rate per acre) to the liquid fertilizer. Close jar and agitate until dispersed evenly in the fertilizer. If the materials do not disperse well, it may be necessary to slurry the chemicals in water before adding to the fertilizer.
3. After dispersing the materials (Step 2), add 3 to 4 teaspoons of the 1.5 LB. BENFLURALIN E.C. to the jar and shake well. Add solution herbicides to the mixture last and agitate. Observe the jar for about 10 minutes. If the materials rise to the surface and form a thick layer (oily curds) which will not redisperse when agitated, a compatibility

agent is needed. If the mixture is easily re-dispersed to its original state with slight agitation, no agent is needed but good agitation must be provided in the fertilizer spray tank.

- 4. If the need for a compatibility agent is shown in Step 3; using a clean quart jar, start at Step 1 above, add 1/2 teaspoon of the compatibility agent to the liquid fertilizer, mix well, then repeat Steps 2 and 3.

An effective compatibility agent will cause the mixture to remain uniformly mixed with little or no separating or oil rising to the surface for one half hour or longer. If slight separation does occur, 2 to 3 inversions of the jar should give a uniform remix. If oily curds form which will not redisperse, more agent or another agent should be tried.

Use a clean jar for each test. The compatibility mixture will have a uniform appearance and will be relatively easy to keep mixed with gentle agitation of the jar.

APPLICATION

Spread the fertilizer/chemical mixture normally with a properly calibrated applicator. Be certain the material is applied uniformly to the soil surface.

INCORPORATION

Follow recommended incorporation procedures for 1.5 LB. BENFLURALIN E.C.

CONDITIONS OF SALE - LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale - Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded.

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions or the failure to follow the label directions or good application practices, all of which are beyond the control of Helena Chemical Company (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be

limited to, at Helena Chemical Company's election, one of the following:

- 1. Refund of the purchase price paid by buyer or user for product bought, or
- 2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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HELENA CHEMICAL COMPANY
225 Schilling Blvd., Suite 300
Collierville, Tennessee 38017
Telephone: 901/761-0050

March 1, 2005

U.S. Environmental Protection Agency
Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504C)
1801 South Bell Street
Crystal Mall #2, Room 266A
Arlington, VA 22202-4501

RE: Notification to Add Other Revisions

To Whom It May Concern,

Enclosed, you will find Helena Chemical Company's Notification for numerous products. Helena has updated the copyright company name, all trademarks, and registered trademarks from Helena Chemical Company to Helena Holding Company. This has been done on the following products:

- Helena Wettable Sulphur 5905-289
- Fyfanon 25WP 5905-293
- Sol Oil 97 5905-294
- Sol Oil Plus 5905-302
- Helena Citrusperse Sulfur 5905-350
- Omni Supreme Spray 5905-368
- Helena 90% Sulfur Dust 5905-422
- Helena Liquid Sulfur Six 5905-437
- 6lb. Sodium Chlorate Defoliant Desiccant 5905-461
- Atrazine 4L 5905-470
- Helena Bravo S 5905-472
- Helena 4.8lb. Diuron Flowable Herbicide 5905-482
- Helena 3..5lb. Liquid Copper Concentrate 5905-483
- Copper Z 4/4 Algicide/Herbicide 5905-486
- Dimethoate 4EC 5905-493
- Setre Fluometuron 80WP Herbicide 5905-494
- Setre Prowl Herbicide + Propanil 5905-495
- Setre 1.5lb. Benfluralin EC 5905-496
- 5lb. Dimethoate Systemic Insecticide 5905-497
- Brush Rhap Low Volatile 4-D Herbicide 5905-498

This should also be noted on all alternate brand names of the master labels.

In support of these Notifications, you will find the following:

- EPA Form 8570-1
- 1 copy of the revised label highlighted

If you have any questions, do not hesitate to call me at (901) 752-4420 or by fax at (901) 758-1694. Thank you for your assistance in this matter.

Sincerely,

Mandy K. Styles
Product Registration Supervisor

