

US EPA ARCHIVE DOCUMENT

8-29-83

Date: August 23, 1983

Subject: EPA Registration Number: 1471-140
Balan

From: Deloris F. Graham *022 8/27/83*
FHB/TSS *CG 8/29/83*

005081

To: Robert Taylor
Product Manager (25)

Applicant: Elanco Products Company
A Division of Eli Lilly and Company
740 South Alabama Street
Indianapolis, Indiana 46285

<u>Active Ingredient:</u>	
<i>130</i> / N-butyl-N-ethyl- α,α,α -trifluoro-2,6-dinitro-p-toluidine	60%
<u>Inert Ingredients</u>	40%

Background: Submitted Acute Inhalation Study as requested by the Agency in a letter dated March 29, 1983 to fulfill conditional registration requirements. Study conducted by Lilly Research Laboratories. Data under accession number 250568. Method of support not indicated.

Recommendation:

- (1) FHB/TSS finds this study acceptable to support conditional registration of this product.
- (2) The appropriate Toxicity category is III - CAUTION.

Label:

(1) Precautionary statements must be revised to include "Harmful if inhaled. If inhaled remove victim to fresh air. Give artificial respiration and get medical attention."

Review:

(1) Acute Inhalation Toxicity Study: Lilly Research Laboratories; Study R-4-06-83; March, 1983.

Procedure: Two groups consisting of 10M and 10F Fischer 344 rats were exposed nose only for four hours to one of the following concentrations: 2.014mg/L (Group I) or 2.583mg/L (Group II). Mass median equivalent aerodynamic diameters were 7.44 μ m and 13.30 μ m for group I and II, respectively. Nominal concentrations were 6.91mg total formulation/l and 28.00mg benfenin activity/L for groups I and II, respectively. Room temperature was 24 + 2.5°C with minimum relative humidity of 40%. Observations were made immediately after exposure, one hour postexposure, then twice daily thereafter for 14 days. Necropsy performed on all animals.

18/14

Results: In group I, 1/10F died, In group II, 1/10F + 2/10M died. Toxic signs included hypoactivity, rales, dyspnea, dry nasal exudate, wheezing, weight loss and poor grooming. Necropsy revealed pulmonary congestion and edema in one female in group I; pulmonary hemorrhage in one female in group II and dried nasal exudate associated with pulmonary dysema in one male in group 2; no abnormalities noted in the remaining 37 animals. LC50 determined to be greater than 2.583mg benefin activity/L or greater than 4.18mg total formulation/L.

Study Classification: Core Guideline Data.

Toxicity Category: III - CAUTION.

2

ACCEPTED
MAR 23 1983
U.S. DEPARTMENT OF AGRICULTURE
EPA REGISTRATION DIVISION
WASHINGTON, D.C. 20250
as shown on the label
is listed under
EPA Reg. No.

005081

ELANCO

ID 5529



Net Contents 12½ Pounds

**A selective herbicide for the
pre-emergence control of annual
grasses and broadleaf weeds.**

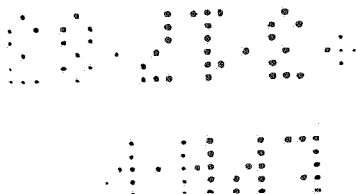
Active Ingredient
N-butyl-N-ethyl- α,α,α -trifluoro-2,6-dinitro-p-toluidine 60%
Inert Ingredients 40%
Contains 0.6 pounds active ingredient per pound
*BALAN®—the registered trademark for Elanco Products benefits

Keep Out of Reach of Children.

CAUTION

See back of container for additional precautionary statements.

EPA Reg. No. 1471-140
XPRM-5184A



3

005081

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals CAUTION

Avoid contact with skin, eyes, or clothing. Harmful if swallowed.

First Aid: In case of contact, immediately flush eyes or skin with plenty of water. If swallowed drink large quantity of water and induce vomiting by placing finger in back of throat. Never give anything by mouth to unconscious person. If accidentally swallowed, or if irritation persists, get medical attention.

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.

Directions for Use

See attached literature for complete directions for use.

Read all directions carefully before applying.

It is a violation of Federal law to use this product in a manner inconsistent with the label.

STORAGE AND DISPOSAL

Storage: Do not store in direct sunlight. Do not store at temperatures above 120°F. If stored above 120°F, SALAN Dry Flowable could lose some of its dispersing properties, resulting in difficult application, poor weed control or crop injury.

Container Disposal:

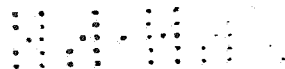
1. Empty container into spray tank.
2. Refill container with water 1/5 to 1/4 full; shake and rinse thoroughly, pour into tank, drain.
3. Repeat rinsing and draining 3 times.
4. Do not reuse. Dispose of in a sanitary landfill, or by incineration if allowed by state and local authorities.

The manufacturer makes no warranties, express or implied, concerning this product or its use which extend beyond the description on the label. All statements made concerning this product apply only when used as directed.

XPRM-5185A

ID 5529

Elanco Products Company • A Division of Eli Lilly and Company
Indianapolis, IN 46285, U.S.A.



4

005081



Directions for Use,
Use Cautions, Precautions and
Special Precautions
Crop Recommendations
Tank Mix Recommendations

ELANCO PRODUCTS COMPANY
A Division of Eli Lilly and Company
Indianapolis, IN 46285, U.S.A.

BALAN® - the registered trademark for Elanco Products benzlin
Copyright © 1982 by Elanco Products Company

Literature revised March 8, 1983
XPTM 5106d

005081

5

005081

DIRECTIONS FOR USE

BALAN 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 BALAN helps assure effective weed control. BALAN controls weeds as they germinate.

SOIL TEXTURE GUIDE

The amount of BALAN applied will vary with the soil texture. A fine textured soil generally requires more BALAN than a coarse textured soil. BALAN 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	Medium	Fine
Sand		
Loamy sand		
Sandy loam		
Loam		
Silty clay loam*		
Silt loam		
Silt		
Sandy clay loam*		
Clay		
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.

TABLE OF CONTENTS

Directions for Use	Page 3
Soil Texture Guide	3
Soil Preparation	4
General Sprayer Information	4
General Mixing Directions	5
Application Directions	6
Incorporation-Directions	7
Incorporation Equipment	7
Cultivation After Planting	8
Weeds and Grasses Controlled	8,9
Crop Recommendations:	
Alfalfa	10
Birdsfoot Trefoil	10
Clover (Alsike, Ladino, Rud)	10
Lettuce (Direct Seeded)	10
Peanut:	
BALAN	10
BALAN/Dial® Tank Mix	11
BALAN/Vernam® Tank Mix	11
Fall Paracum and Broadleaf	11
Signalgrass control	12
Tobacco (Transplant Burley, Dark)	13
Application with Liquid Fertilizer	13
Compatibility Test	14
Precautionary Statements	15, 16
General Use Precautions	16
BALAN Dry Flowable Performance Guarantees and Limited Warranty	17

Dual® - metolachlor, Ciba Geigy
Vernam® - vermodate, Stauffer Chemical Company
Ridomil® - metalaxyl, Ciba Geigy

6

GENERAL MIXING DIRECTIONS

Use the following instructions for mixing BALAN Dry Flowable alone in water and tank mixed in water

General Mixing Instructions in Water Alone:

Start with a clean sprayer. Fill the spray tank three-fourths (¾) full with clean water. Start agitation and increase pump speed to operating pressure. Add the correct quantity of BALAN Dry Flowable from the original package. Do not premeasure BALAN Dry Flowable into a larger container or enlarge the container opening. Continue agitation and finish filling the tank. Maintain agitation from mixing through application. Induction systems on custom application equipment may be used to disperse BALAN Dry Flowable in water.

When the sprayer tank opening is directly above the outlet port, fill the spray tank three-fourths (¾) full with clean water. Do not start the sprayer or agitation. Add the correct quantity of BALAN Dry Flowable from the original package and allow the BALAN Dry Flowable particles to wet as they settle to the bottom of the tank. Finish filling the tank. Start and maintain agitation until the tank is empty. If the in-line strainer becomes clogged, remove the screen and rinse in the spray tank. Replace the screen, restart the sprayer and continue agitation.

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 three-fourths (¾) full with clean water. Start agitation and increase pump speed to operating pressure. Add BALAN Dry Flowable, then add other dry flowables, wettable powders (WP), aqueous suspensions (AS), flowables (F), liquids (L), solutions (S), and emulsifiable or liquid

5

SOIL PREPARATION

Destroy existing weeds before a BALAN application. Chop and thoroughly mix crop residues into the soil to a depth of four (4) to six (6) inches by deep plowing or discing before a BALAN application. Use machinery that breaks up large clods before a BALAN application.

GENERAL SPRAYER INFORMATION

Vigorous, continuous agitation is required for all dry flowables. Sparger pipe agitation generally provides the best agitation. As when using any dry flowable pesticide, the sprayer in-line strainer should be no finer than a 16 mesh (16 mesh has larger openings than 50 mesh).

1. Be sure sprayer tank is clean and not contaminated with any material as crop injury or sprayer clogging may result.
2. Be certain that agitation system is working properly and routes a rippling or rolling action on the liquid surface.
3. Use a pump with capacity to (a) provide sufficient agitation in tank to keep mixture in suspension, and (b) to provide to the agitator bypass at all times.
4. Centrifugal pumps are preferred since they provide propeller action for dispersing and mixing this product.
5. Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on suction side of pump should be 16 mesh or coarser. Use 50 mesh or coarser screens between the pump and boom and when required at the nozzles.
6. Empty tank as completely as possible before refilling to prevent buildup of oil or emulsifiable concentrate residue (in the case of tank mixes). If an oil or emulsifiable concentrate film starts to build up in the tank, drain and clean with strong detergent solution.
7. It is good practice to clean sprayer tank thoroughly by flushing system with water containing a detergent, then refill with clean water.

4

INCORPORATION DIRECTIONS

BALAN must be incorporated into lime within eight (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 (refer to Incorporation Equipment below for specific instructions). If BALAN 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 eight (8) hours in the Eastern United States and four (4) hours in the Western United States. Incorporation should place the BALAN into the top two (2) to three (3) inches of the final seedbed. Place BALAN to a depth of three (3) inches for more effective control of Texas panicum. Generally, incorporation equipment will mix BALAN approximately half as deep as the equipment is run. For example, a disc running four (4) inches deep will incorporate BALAN into approximately the top two (2) inches.

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

INCORPORATION EQUIPMENT

Use machinery that mixes BALAN thoroughly with the soil. Shallow incorporation with implements set to mix BALAN less than two (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) to cut four (4) to six (6) inches deep and operated in two (2) different directions at four (4) to six (6) mph. A tandem or double disc operated one time does not provide adequate incorporation.

concentrates (LC) in this order to the water and apply continuously until the product(s) are completely dispersed in the water. Maintain agitation from filling through application. If spray and agitation must be stopped before the tank is empty, materials may settle to the bottom. In this case, it is important to suspend again 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 it originally. A sprayer agitator is particularly useful for this purpose. Read and carefully follow all label instructions for each material added to the tank. Premixing dry and flowable formulations with water (stirring) and pouring the slurry through a 20 or 35 mesh wetting screen in the top of the tank will help assure good initial dispersion in the tank water. In-line screens in the tank should be no finer than 16 mesh (16 mesh has bigger openings 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.

APPLICATION DIRECTIONS

Apply BALAN anytime after January 1 when the soil can be worked. Apply in at least five (5) 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 BALAN to the soil surface and incorporate within the recommended time.

BALAN should not be applied to soils which are wet or are subject to prolonged periods of flooding as poor weed control may result.

Power take off driven equipment (tilers, cultivators, hoes) soil to incorporate BALAN in the top two (2) to three (3) inches of the final seedbed PTO driven equipment should be operated one time at a speed not greater than four (4) mph

PRECAUTION: Power take off driven equipment used alone as the incorporation implement in coarse soils may cause an uneven distribution of BALAN. This occurs when the wheel track depression is below the penetrating depth of the lines on the tiller. This may result in an excessive amount of BALAN 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 BALAN

CULTIVATION AFTER PLANTING

Soil treated with BALAN may be shallowly cultivated or roly hoed without reducing the weed control activity of BALAN. Do not cultivate deeper than the BALAN 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

BALAN will not control established weeds

GRASSES CONTROLLED

- Annual bluegrass (*Poa annua*)
- Barnyardgrass (*Echinochloa crusgalli*)
- Watergrass
- Broadleaf signalgrass (*Brachiaria platyphylla*)
- (See Page 12 for special instructions)
- Crabgrasses (*Digitalis* spp.)
- Large crabgrass
- Smooth crabgrass
- Crowfootgrass (*Dactyloctenium aegyptium*)

- Fall panicum (*Panicum dichotomiflorum*)
- Sprouting panicgrass (See Page 12 for special instructions)
- Foxtails (*Setaria* spp.)
- Bottlegrass
- Bristlegrass
- Giant foxtail
- Green foxtail
- Pigeongrass
- Robust foxtail
- Yellow foxtail

Goosegrass (*Eleusine indica*)

Silver crabgrass

Wiregrass

Yardgrass

Johnsongrass

Seeding only

Junifernice

Ryegrass

Annual ryegrass

Italian ryegrass

Sandbar

Burgrass

Texas panicum

Bullalograss

Colorado grass

BROADLEAF WEEDS CONTROLLED

Carpetweed (*Mollugo verticillata*)

Chickweed (*Stellaria media*)

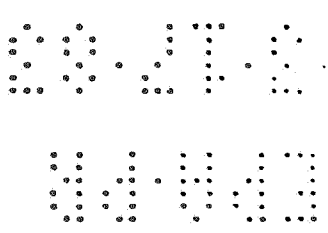
Florida purslane (*Richardia scabra*)

Florida pusley

Mexican clover

Pusley

9



- Knottweed
 - Lambquarters
 - Pigweeds
 - Carolinssweed
 - Prostrate pigweed
 - Rodroot
 - Rough pigweed
 - Spiny pigweed
 - Purslane
 - Redmaids
- (*Polygonum aviculare*)
(*Chenopodium album*)
(*Amaranthus* spp.)
- (*Portulaca oleracea*)
(*Calandrinia caulescens*)

CROP RECOMMENDATIONS

These recommendations are given as the broadcast rates per acre of BALAN. For band application, use proportionately less

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

Apply and incorporate BALAN Dry Flowable before seeding at a broadcast rate per acre of 2 pounds on coarse and medium soils and 2½ pounds on fine soils. Do not apply after seeding.

LETTUCE (Direct Seeded)

Apply and incorporate BALAN Dry Flowable before seeding at a broadcast rate per acre of 2 pounds on coarse and medium soils and 2½ pounds on fine soils. Do not apply after seeding.

PEANUT—BALAN Alone:

Apply and incorporate BALAN Dry Flowable before planting at a broadcast rate per acre of 2-2½ pounds on coarse and medium soils and 2½ pounds on fine soils. Use the higher rate on coarse and medium soils or where the weed population may be heavy.

PEANUT—BALAN/Dual® Tank Mix:

The BALAN/Dual tank mix controls the annual grasses and broadleaf weeds listed for BALAN alone and these additional weeds:

- Foxtail millet
- Prairie cupgrass
- Red rice
- Southwest cupgrass
- Witchgrass
- Yellow nutsedge

Follow recommended procedures for soil preparation, incorporation and cultivation of BALAN. BALAN/Dual may be applied and incorporated up to 14 days prior to planting.

Ground application: Apply BALAN/Dual in 10 to 40 gallons of spray volume per acre.

Aerial application: Apply BALAN/Dual in a minimum of 5 gallons of spray volume per acre.

Broadcast Rates Per Acre:

Soil Texture	BALAN		Dual 8E	
	Dry (pounds)	Flowable (pounds)	Less than 3% O.M.	3% O.M. or Greater (pints)
Coarse	2-2½	2-2½	1½-2	2
Medium	2-2½	2-2½	2-2½	2-2½
Fine	2½	2½	2-2½	2½-3

NOTE: Follow all cautions and precautions on the Dual label

PEANUT—BALAN/Vernam® Tank Mix:

BALAN/Vernam controls the annual grasses and broadleaf weeds listed for BALAN alone and this additional weed:

- Nutsedge (Nutsedge)

005081

10

Follow recommended procedures for soil preparation and cultivation of BALAN. Apply BALAN/Vernam in 10 to 40 gallons of spray volume per acre. BALAN/Vernam can be applied up to 10 days prior to planting. Incorporate immediately to prevent loss of the Vernam. Follow suggested incorporation procedures for BALAN.

Broadcast Rates Per Acre:

Soil Texture	BALAN Dry Flowable (pounds)	Vernam 7E (pints)
Coarse	2-2 1/2	2 1/4
Medium	2-2 1/2	2 1/4
Fine	2 1/2	3

NOTE: Follow all cautions and precautions on the Vernam label.

PEANUT—Fall Panicum and Broadleaf Signalgrass

Control:
 Fall panicum control—BALAN Alone: In the states of Alabama, Florida, Georgia, North Carolina, South Carolina and Virginia, apply BALAN Dry Flowable at a broadcast rate of 2 1/2 pounds per acre on both coarse and medium soils.
 Fall panicum control—BALAN/Vernam: For additional weed control, apply at a broadcast rate of 2 1/2 pounds of BALAN Dry Flowable and 2 1/4 pints of Vernam 7E on coarse soils and 2 1/2 pounds of BALAN Dry Flowable and 3 pints of Vernam on medium soils. Follow incorporation directions for BALAN/Vernam above.

Broadleaf signalgrass control: Apply BALAN Dry Flowable at a broadcast rate of 2 1/2 pounds per acre on both coarse and medium soils.

TOBACCO—(Transplant Burley and Dark Tobacco)

Apply and incorporate BALAN Dry Flowable before transplanting at a broadcast rate per acre of 2 pounds on coarse and medium soils and 2 1/2 pounds on fine soils. Set plants so that roots extend below the BALAN treated layer of soil.

BALAN is usually compatible with Ridomil®. To assure the compatibility of BALAN with Ridomil, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for five minutes. If the combination remains mixed or can be remixed readily, the mixture is compatible.

NOTE: Read the Ridomil label carefully before using.

LIQUID FERTILIZER MIXING INSTRUCTIONS

BALAN Dry Flowable in Liquid Fertilizer

BALAN Dry Flowable can be mixed with liquid fertilizer. In all cases, vigorous and continuous agitation is required to mix BALAN Dry Flowable with the liquid fertilizer. BALAN Dry Flowable may be applied alone in liquid fertilizer without a compatibility agent. The use of a compatibility agent is especially important when tank mixing BALAN Dry Flowable with emulsifiable concentrates (EC) and liquid concentrates (LC). See the liquid fertilizer compatibility test on page 14. If the emulsion is not properly formed, the EC/LC may rise to the surface of the fertilizer as an oil ("oils out"), the oil may combine with the BALAN Dry Flowable, wettable powder, liquid, flowable or aqueous suspension to form oily curds (viscous phase) which are difficult to disperse.

Any one of the compatibility agents listed below is helpful in causing emulsifiable and liquid concentrates to form non-oiling mixtures with liquid fertilizers. These compatibility agents can be used at rates as low as one and one-half (1 1/2) to two (2) pints

3. Invert the jar for about 10 minutes. If the materials rise to the surface and form a thick layer (oil curds) which will not disperse when agitated, a compatibility agent is needed. If the mixture is easily 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 8:00 A.M., add one half (1/2) teaspoonful 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 (1/2) hour or longer. If slight separation does occur, two (2) to three (3) inversions of the jar should give a uniform remix. If oily curds form which will not disperse, more agent or another agent should be tried. Use a clean jar for each test. The compatible 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 BALAN.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals
Keep Out of Reach of Children

CAUTION

Avoid contact with skin, eyes, or clothing. Harmful if swallowed.
First Aid: In case of contact, immediately flush eyes or skin with plenty of water. If swallowed, drink large quantity of water.

15

port of liquid fertilizer and should be mixed well with the fertilizer containing BALAN Dry Flowable before adding the emulsifiable concentrate. Read the label on the compatibility agent and follow the directions.

1. Sycro 168D (Witco Chemicals Co., Chicago, IL)
2. Compat (Farm Chemicals, Inc., Aberdeen, NC)
3. Unio (Johns Ag Chemical Madison, WI)
4. 1 Milz 7-14 2 (Thompson Hayward Chemical Co.)
5. Amoco Spray Male™ (Amoco Oil Co., Chicago, IL)

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:

Tank mixtures with BALAN Dry Flowable, other dry flowables, wettable powders (WP), aqueous suspensions (AS), flowables (F), liquids (L), solutions (S), or unmixtable concentrates (LC) may not combine properly with some liquid 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 five (5) 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 one (1) pint of the liquid fertilizer in a quart jar.
2. Add one (1) to four (4) teaspoonful(s) of BALAN Dry Flowable with an equal amount of the WP, AS, F, L, S or FC 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.

14

17

and induce vomiting by placing finger in back of throat. Never give anything by mouth to unconscious person. If accidentally swallowed, or if irritation persists, get medical attention.

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.

Storage and Disposal

Do not store in direct sunlight. Do not store at temperatures above 120°F. BALAN Dry Flowable could lose some of its dispersing properties, resulting in difficult application, poor weed control or crop injury.

Empty container into spray tank. Refill container with water one fifth (1/5) to one fourth (1/4) full, shake and rinse thoroughly into tank; drain. Repeat rinsing and draining three times. Do not reuse. Dispose of in a sanitary landfill, or by incineration if allowed by state and local authorities.

GENERAL USE PRECAUTIONS

Applied according to directions and under normal growing conditions, BALAN will not harm the treated crop. Over application may result in stunting, crop injury or soil residue. Uneven application or improper soil incorporation of BALAN can result in erratic weed control or crop injury. Seeding disease, temperature extremes, deep planting, excessive moisture, high salt concentration or drought may weaken crop seedlings and increase the possibility of damage from BALAN. 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 BALAN. To

16

avoid such injury, do not plant wheat, barley, rye, other grasses or onion within 10 months following a BALAN application. Milo (grain sorghum), corn, oats, spinach, rad beet, sugar beet and other root crops should not be planted within 12 months following a BALAN application.

BALAN DRY FLOWABLE PERFORMANCE GUARANTEE A LIMITED WARRANTY OF BALAN WEED AND GRASS CONTROL

Elanco Products Company warrants that BALAN Dry Flowable will control the weeds and grasses as indicated on its current label when used according to label directions and subject to the following limitations:

1 Purchaser must notify Elanco promptly if a lack of satisfactory control occurs. Such notice must be given within ninety (90) days after the first planting or application of BALAN Dry Flowable to the treated crop, whichever occurs later.

2 An Elanco representative must be satisfied that Purchaser used BALAN Dry Flowable according to the label directions and must visually observe unsatisfactory control of weeds in the field.

3 The Purchaser must provide an Elanco representative with an invoice or other satisfactory record which shows the price, quantity of BALAN Dry Flowable, and date purchased.

4 Elanco's liability will be limited to a refund of the purchase price of the BALAN Dry Flowable applied to the acreage on which weed control was not satisfactory or, at the option of the Purchaser, a refund of an equivalent amount of BALAN

D. C.

to void wherever the USA

17

005081

132

DISCLAIMER OF WARRANTIES

The warranty printed above is the only warranty applicable to this product. All other warranties, express or implied, including but not limited to, the implied warranties of merchantability and fitness for a particular purpose are disclaimed.

LIMITATION OF DAMAGES

Eianco's liability, whether in contract, warranty, tort, negligence, strict liability or otherwise shall not exceed the return of the amount of the purchase price of the BALAN Dry Flowable and under no circumstances shall Eianco be liable for special, indirect or consequential damages.

INHERENT RISKS OF USE

Failure to carefully follow the directions for use of BALAN Dry Flowable may result in unsatisfactory weed control or crop injury. Factors such as plant disease, temperature extremes, deep planting, excessive moisture, high salt concentration, drought, or immediate intense irrigation may also result in unsatisfactory weed control or crop injury.

PAGE 19
BLANK

14