



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

JAN 14 1994

**OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES**

**Douglas M. Roby
DOWELANCO
QUAD IV 9002 PURDUE RD
INDIANAPOLIS, IN 46268**

**Subject: Label Amendment Submission of 08/18/93 in Response to PR Notice 93-7
EPA Reg. No. 62719-94
BALAN E.C**

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- **BEFORE** selling or distributing any product bearing the final printed labeling
- AND**
- **WITHIN** one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola ink on paper that contains at least 50% recycled fiber

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Douglas M. Roby
DOWELANCO
QUAD IV 9002 PURDUE RD
INDIANAPOLIS IN 46268

Subject: Label Amendment Submission of 08/18/93
to Comply with WPS Labeling Requirements
EPA Reg Nr. 62719-94
BALAN E.C.

The following specific comments pertain to your
WPS labeling submission concerning the product
cited above:

The following statement on your proposed label is not
required for this product: "Notify workers of the
application by warning them orally and by posting warning
signs at entrances to treated areas " Delete it from the
Agricultural Use Requirements box.

The statement on your proposed label that references the
Agricultural Use Requirements box in your proposed
supplemental labeling contains incorrect language. Use the
exact text and placement of the referral statement as shown
on page 43 in Supplement Three to PR Notice 93-7.

You must add the following sentence to the section of your
labeling that discusses the requirements for posting signs
for chemigation: "This sign is in addition to any sign
posted to comply with the Worker Protection Standard."

[Laminated Booklet -- Balan EC (Crop, -94)] [Developed per WPS.]
[EDITOR NOTE: Strike-through text denotes deletions; Underlined text denotes additions.]
Based on EPA text accepted 02/08/93

(logo) DowElanco

Balan* E.C.

A selective herbicide for the preemergence control of annual grasses and broadleaf weeds

Active Ingredient:
N-butyl-N-ethyl- α , α , α -trifluoro-2,6-dinitro-p-toluidine. 19.4%
Inert Ingredients. 80.6%
Contains 1.5 pounds active ingredient 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.)

Refer to inside of label booklet for additional precautionary information including Personal Protective Equipment (PPE), and Directions for Use including Agricultural Use Requirements and Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of emergency endangering health or the environment involving this product, call collect 517-636-4400.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-94

AGL AGH
EPA Est. 1471-IN-2; 5902-GA-01
Superscripts used are first letters of lot number.
900-00xxxx

20110

Avoid Freezing - Store Above 40° F.

*Trademark of DowElanco
DowElanco • Indianapolis, IN 46268, U.S.A.

Herbicide

ACCEPTED
with COMMENTS
in EPA Letter Dated

JAN 14 1994
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
62719-94

(Page 2, booklet):

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Precautionary Statements

Hazards to Humans and Domestic Animals

DANGER PELIGRO:

~~Precaucion al usuario: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.~~

~~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.)~~

~~Corrosive • Causes Irreversible Eye Damage • Causes Skin Irritation • Harmful If Swallowed, Inhaled Or Absorbed Through The Skin • Balan E.C. May Cause Skin Sensitization Reactions In Certain Individuals~~

~~Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist or vapors. Wear protective clothing such as goggles or face shield, and coveralls, a long-sleeved shirt and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.~~

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 selections chart.

Applicators and other handlers must wear:

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

First Aid

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. See an ophthalmologist immediately.

If swallowed: Call a physician or Poison Control Center. This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. If this happens and the patient is conscious, immediately administer activated charcoal (6-8 teaspoonfuls) with water. If patient is unconscious, do not induce vomiting.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops.

If inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, provide cardiopulmonary resuscitation assistance (mouth-to-mouth) and call a physician.

Environmental Hazards

This product is toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas

may be hazardous to aquatic organisms in neighboring areas. Do not apply when conditions favor runoff or drift from the target area. Do not contaminate water when disposing of equipment washwaters.

Directions for Use

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

Read all Directions for Use carefully before applying.

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 the agency responsible for pesticide regulation.

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 exemptions 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 such as Barrier Laminate or Viton
- Shoes plus socks
- Protective eyewear

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

Storage: Avoid freezing. Store above 40°F. If frozen, poor weed control may result. Do not store near heat or open flame. Store in original container only. Mini-bulk tanks that have been used for phenoxy-type herbicides should not be used for Balan E.C. In case of leak or spill, use absorbent materials to contain liquids and dispose as waste.

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, 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.

Metal 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.

Plastic Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Bulk/Mini-bulk Tank Cleaning: Triple rinse (or equivalent) and wash with appropriate cleaners before reusing.

General Information

Balan E.C. herbicide is a preemergence herbicide for control of annual grasses and broadleaf weeds. Incorporation of Balan E.C. is required to assure effective season long weed control. Balan E.C. may be applied in liquid sprays of water or liquid fertilizer, or impregnated on dry bulk fertilizer. Balan E.C. controls weeds as they germinate. Balan E.C. does not control established weeds.

General Use Precautions

When applied according to use directions and under normal growing conditions, Balan E.C. will not harm the treated crop. Over-application can result in crop injury, delayed emergence or soil residue. Uneven application or improper soil incorporation of Balan 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 Balan 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 Balan E.C. To avoid such injury, do not plant wheat, barley, rye, other grasses, or onion within 10 months following an application of Balan E.C. Do not plant milo (grain sorghum), corn, oats, spinach, red beets, sugar beets, or other root crops for 12 months following an application of Balan E.C.

Balan E.C. should not be applied to soils that are wet or subject to prolonged periods of flooding as poor weed control may result.

Chemigation: See chemigation instructions elsewhere in this label.

Soil Texture Guide for Application Rates

Application rates of Balan E.C. are based on soil texture. A fine textured clay soil will require a higher application rate than a coarse textured sandy soil. Application rates of Balan E.C. are determined by "soil texture groupings" (coarse, medium or fine) which correspond to the various field soil textures to be treated. Using the table below, determine if the field soil to be treated is coarse, medium or fine and use the application rate recommended for that soil texture grouping.

Soil Texture Class	Soil Classification
Coarse (Light) Soils	Sand, loamy sand, sandy loam
Medium Soils	Loam, silty clay loam*, silt loam, silt, sandy clay loam*
Fine (Heavy) Soils	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 loam soils are predominantly sand or silt, they are usually classified as medium textured soils. If they are predominantly clay, they are usually classified as fine textured soils.

Soil Preparation

Destroy existing weeds before application of Balan E.C. Chop and thoroughly mix surface residues into the soil to a depth of 4 to 6 inches by plowing or discing. Use tillage equipment to break up large clods before application.

Mixing Directions

Balan E.C. - Alone

Balan E.C. may be applied in water and liquid fertilizer materials. Prior to mixing Balan E.C. in liquid fertilizer, refer to the label section entitled "Testing for Compatibility in Liquid Fertilizers" for test procedures to determine compatibility with the fertilizer product to be used.

Start with a clean spray tank. Fill the sprayer to 1/3 to 1/2 of the required spray volume. Start agitation. Add the correct amount of Balan E.C., continue agitation and fill spray tank to required spray volume. Maintain continuous agitation from mixing through application.

Precaution: Do not allow the mixture to back siphon into the water source.

Balan E.C. In Tank Mix Combinations

Balan E.C. may be tank mixed with other products when applied with water or liquid fertilizer materials. Prior to mixing Balan E.C. and another product in liquid fertilizer, refer to the tank mix product manufacturer's label to determine if application in liquid fertilizer is recommended. Also refer to the label section entitled "Testing for Compatibility in Liquid Fertilizers" for testing procedures to determine tank mix compatibility with the liquid fertilizer product to be used. Read and follow all label instructions for each material to be added to the spray tank.

Vigorous, continuous agitation is required for all tank mixes. Sparger pipe agitators generally provide the best agitation in spray tanks. To prevent foaming in the spray tank during filling, keep the end of the fill pipe below the surface of the water. This prevents air from being stirred or splashed into the mixture.

Mixing Order: Fill the spray tank 1/4 to 1/3 of the total spray volume required. Start agitation. Add different formulation types in the following order: dry flowables (DF); wettable powders (WP); aqueous suspensions (AS), flowables (F) and liquids (L). Allow time for complete mixing and dispersion after addition of each product. Allow extra mixing and dispersion time for dry flowable products. Continue agitation and fill tank to 3/4 of total spray volume. Then add the required amount of Balan E.C. followed by solution (S) type formulations.

Finish filling spray tank. Maintain continuous agitation during mixing, final filling and throughout application. If spraying and agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled materials may be more difficult to resuspend than when originally mixed.

Premixing: When tank mixing, initial mixing and dispersion of certain dry flowable or wettable powder products may be improved by premixing with water (slurrying). Where recommended, follow product label instructions for each material. Adding the slurried material to the spray tank through a 20 to 35 mesh wetting screen will help assure good initial dispersion. Line screens in the tank should be no finer than 50 mesh (100 mesh is finer than 50 mesh).

Testing for Compatibility in Liquid Fertilizers

Balan E.C. alone or in combination with other products may not combine properly with some liquid fertilizer materials. Small quantities of such mixtures should always be tested before full-scale mixing. Use the procedure provided below to determine if a compatibility agent is needed or which available agent performs best with the mixture being applied. The compatibility agents listed at the end of this section have been thoroughly tested. Other surfactant materials available may not be suitable for use with liquid fertilizers. Individual state regulations relating to liquid fertilizer mixing, registration, labeling and application are the responsibility of the individual and/or company offering the fertilizer and chemical mixture for sale. The combination of Balan E.C. with solution and suspensor.-type fertilizers provides annual weed control equal to Balan E.C. applied in water.

Testing Procedure

1. Add 1 pint of liquid fertilizer to a 1 quart glass jar.
2. Add 1 to 4 teaspoonfuls (depending on application rate) of the products to be tank mixed in the liquid fertilizer. Add materials in the order recommended in the "Mixing Directions" section of this label. Mix until evenly dispersed after addition of each formulation. If dry flowable or wettable powder formulations do not disperse well, it may be necessary to slurry the materials in a small amount of water before addition to the liquid fertilizer.
3. Observe the jar for about 10 minutes. If materials rise to the surface and form a thick layer (oil curds) which will not disperse again when agitated, a compatibility agent is needed. If the mixture is easily dispersed to its original state with slight agitation, no compatibility agent is needed, however, good agitation must be provided to maintain dispersion in the spray tank from mixing through application.
4. If the need for a compatibility agent is demonstrated in step 3, it may be tested as follows: Using a clean clear plastic or glass container, start at step 1, above. Add 1/2 teaspoonful of the compatibility agent to the liquid fertilizer, mix well, and then repeat steps 2 and 3.

An effective compatibility agent will cause the mixture to remain uniformly mixed with little or no separation or oil rising to the surface for 1/2 hour or longer. If slight separation occurs, 2 to 3 inversions of container should provide a uniform mixture. If oily curds form which will not disperse, try adding additional compatibility agent or test the effectiveness of an alternative compatibility agent using the procedure above. A clean jar should be used for each test.

Compatibility Agents

The phosphate ester-type surfactants listed below are designed for use with liquid fertilizers and can be mixed at rates as low as 1 1/2 to 2 pints per ton of liquid fertilizer. They usually do not work well as compatibility agents for tank mixes in plain water. Add the compatibility agent just before adding herbicides. Read and follow label directions for the compatibility agent.

1. Sponto 168D (Wilco Chemicals Co., Chicago, IL).
2. Compat (Farm Chemicals, Inc., Aberdeen, NC). Not for use in California.
3. Unite (Hopkins Ag Chemical, Madison, WI).
4. T-Mulz 734-2 (Thompson-Hayward Chemical Co., Kansas City, MO). Not for use in California.
5. Rigo Compatibility Agent (Rigo Company, Buckner, KY).
6. Amoco Spray Mate (Amoco Oil Co., Chicago, IL). Not for use in California.
7. Kem-Link (Universal Coop, Minneapolis, MN).

Application Directions

Application in Liquid Sprays

Apply Balan E.C. anytime after January 1 when soil can be worked. Apply Balan E.C. in a total spray volume of 5 to 40 gallons of water or liquid fertilizer per acre (broadcast basis), using any properly calibrated low pressure herbicide sprayer that will apply the spray uniformly. Balan E.C. rate recommendations are provided for broadcast application. For band applications, use proportionally less. As the amount of spray volume per acre decreases, the importance of accurate calibration and uniform application increases. Check the sprayer daily to insure proper calibration and uniform application. Avoid boom overlaps that will increase rates above those recommended.

Application in Dry Bulk Fertilizer

Balan E.C. may be impregnated on most dry bulk fertilizers. Uniformly applied, dry bulk fertilizer impregnated with Balan E.C. has provided weed and grass control equal to equivalent rates of Balan E.C. in liquid carriers. Follow Balan E.C. label directions regarding application rates, crops, incorporation directions, use precautions and limitations. Compliance with state regulations relating to dry bulk fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company offering the fertilizer or chemical mixture for sale. To provide sufficient soil coverage, the required amount of Balan E.C. must be impregnated on a minimum of 200 pounds of dry bulk fertilizer per acre. If less than 6 pints of Balan E.C. are needed to impregnate a ton of fertilizer, add sufficient water to provide a minimum spray volume of 6 pints per ton.

Use any closed drum, belt, ribbon or other commonly used dry bulk fertilizer blender. Nozzle placement should provide uniform coverage of the fertilizer. When coated ammonium nitrate and limestone are used alone, do not impregnate with Balan E.C.

The following formula may be used to calculate the amount of Balan E.C. required to impregnate a ton of dry bulk fertilizer:

$$\begin{array}{rcccl} \text{Application Rate} & & 2000 & & \text{Pints of Balan E.C.} \\ \text{in:} & \times & \text{Pounds Fertilizer} & = & \text{Per Ton} \\ \text{Pints/Acre} & & \text{Per Acre} & & \text{of Fertilizer} \end{array}$$

Chemigation

Balan E.C. may be applied through properly equipped chemigation systems for weed control in certain crops specified in the "Approved Crops" section of this label. Read and follow all label instructions.

General Chemigation Directions

Apply Balan E.C. only through continuously moving center pivot, lateral move, or end tow sprinkler irrigation systems equipped for chemigation. Do not apply this product through any other type of irrigation system.

- Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.
- If you have questions about calibration you should contact state extension specialists, equipment manufacturers or other experts.
- Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system.
- A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Precautions - Posting of Treated Areas

Posting of areas to be chemigated with Balan E.C. is required when (1) any part of the treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or (2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

Posting must conform to the following requirements. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. The sign shall be printed in English. Signs must be posted prior to application until foliage has dried and soil surface water has disappeared. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.

All words shall consist of letters at least 2 1/2 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

Sprinkler Chemigation Directions

The following directions must be followed for all recommended sprinkler irrigation systems (center pivot, lateral move or end tow):

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back-flow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point that pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.
8. Balan E.C. should be injected continuously throughout the chemigation period. The chemigation metering pump should be checked periodically during application to insure proper operation.
9. The injection metering pump must be calibrated as specified by the manufacturer.
10. During chemigation, maintain agitation in supply tank at all times.
11. Balan E.C. may cause some staining of plastic hoses and tanks.
12. Apply Balan E.C. in sprinkler irrigation equal to 1/2 to 1 inch of water.

Chemigation System Calibration

Sample calculation for use of Balan E.C. in a chemigation system:

- Assume, in this example, 133 acres are to be covered by a chemigation treatment.
- Product required, assuming 3 quarts per acre on a coarse-textured soil, is 400 quarts (100 gallons).
- Add 100 gallons of product directly to the injection supply tank.
- Adjust the injection system to deliver 100 gallons during the time required to apply 1 inch of water to the 133 acres.

If the irrigation system requires 20 hours to apply 1 inch of water to 133 acres, the injection rate is 5 gallons per hour and is calculated as follows:

$$100 \text{ gallons} / 20 \text{ hours} = 5 \text{ gal/hr}$$

$$5 \text{ gallons} / \text{hour} = 640 \text{ fluid ounces (fl oz)} / \text{hr}$$

Proper calibration requires the injection pump to be adjusted to deliver 10.67 fl oz per minute and is calculated as follows:

$$640 \text{ fl oz per hr} / 60 \text{ min per hr} = 10.67 \text{ fl oz/min}$$

Chemigation Mixing Directions

Undiluted Balan E.C.: When used alone, the injection of undiluted Balan E.C. is recommended in chemigation systems. For undiluted use, the metering pump, supply tank, and any associated equipment must be thoroughly clean and dry before Balan E.C. is added to the system for injection. When injecting undiluted Balan E.C., maintain continuous agitation in the supply tank.

Diluted Balan E.C.: Balan E.C. may be diluted if required to achieve accurate calibration for existing equipment. Partially fill the injection supply tank with a volume of water equal to the amount of Balan E.C.

required. Do not add water to Balan E.C. Start agitation. Add the required amount of Balan E.C. to water in the supply tank and continue mixing while filling the tank to the final volume required by the injection pump calibration. When injecting diluted Balan E.C., maintain continuous agitation in supply tank.

Soil Incorporation Directions

Before planting, Balan E.C. must be incorporated one time within 4 to 8 hours after application. A second incorporation is required with most equipment (see "Incorporation Equipment" below, for specific instructions). If Balan E.C. is applied to a wet, warm soil surface or if the wind velocity is consistently greater than 10 mph, variable weed control may result. Variable weed control may also result if incorporation is delayed more than 8 hours in the Eastern United States or 4 hours in the Western United States. Operate equipment to mix Balan E.C. into the top 2 to 3 inches of the final seedbed. Generally, incorporation equipment will mix Balan E.C. approximately half as deep as equipment is operated. For example, operating equipment 4 inches deep will mix Balan E.C. into approximately the upper 2 inches of the seedbed.

Special Note: In the Western United States, extremely high temperatures and intense sunlight may be present at the time of application. Under such conditions, Balan E.C. must be incorporated within 4 hours after application to prevent loss of herbicidal activity.

Incorporation Equipment

Use equipment that thoroughly mixes Balan E.C. into the soil. Shallow incorporation less than 2 inches deep in the final seedbed may result in erratic weed control. Use of equipment not listed below may result in poor or erratic weed control and/or crop injury. The following types of equipment are recommended:

- Tandem disc: Set equipment to cut 4 to 6 inches and operate at 4 to 6 mph. Two incorporation passes in different directions are required. A single incorporation pass with a tandem or double disc does not provide adequate soil mixing.
- PTO driven equipment (tillers, cultivators, hoes): Set equipment to operate 4 to 6 inches deep and operate no more than 4 mph. Only one incorporation pass is necessary with this type of equipment.

Precaution: Use of PTO equipment alone for incorporation in coarse (sandy) soils may result in an uneven distribution of Balan E.C. This occurs when soil containing Balan E.C. is deposited into wheel tracks that are deeper than the operating depth of the tiller. This results in an excessive amount of Balan E.C. in tractor wheel depressions and poor weed control in intervening areas containing less than the intended rate of Balan E.C.

Cultivation After Planting

Soil treated with Balan E.C. may be shallowly cultivated or rotary hoed without loss of weed control activity. Do not cultivate deeper than the Balan E.C. treated layer or untreated soil may be exposed resulting in loss of weed control. In bedded culture, if weeds germinate in the bottom of the furrow due to the removal of treated soil, these weeds should be controlled by cultivation.

10:25 AM

August 23, 1933 [TAG]

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Annual Grasses and Broadleaf Weeds Controlled by Balan E.C.

Annual Grasses:

<u>Common Name</u>	<u>Scientific Name</u>
Annual blue grass	<i>Poa annua</i>
Barnyardgrass (Watergrass)	<i>Echinochloa crus-galli</i>
Broadleaf signalgrass (See "Peanut - Fall Panicum and Broadleaf Signalgrass Control")	<i>Bracharia platyphylla</i>
Crabgrass (Large crabgrass) (Smooth crabgrass)	<i>Digitaria</i> spp.
Crowfootgrass	<i>Dactyloctenium aegyptium</i>
Foxtails (Bottlegrass) (Bristlegrass) (Giant foxtail) (Green foxtail) (Pigeongrass) (Robust white foxtail) (Yellow foxtail)	<i>Setaria</i> spp.
Johnsongrass (Seedling only)	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colonum</i>
Panicum, fall (Spreading panicgrass) (See "Peanut - Fall Panicum and Broadleaf Signalgrass Control")	<i>Panicum dichotomiflorum</i>
Panicum, Texas (Buffalograss) (Coloradograss)	<i>Panicum texanum</i>
Ryegrass, annual (Italian)	<i>Lolium multiflorum</i>
Sandbur, field	<i>Cenchrus incertus</i>

Annual Broadleaf Weeds:

<u>Common Name</u>	<u>Scientific Name</u>
Carpetweed	<i>Mulugo verticillata</i>
Chickweed	<i>Stellaria media</i>
Florida pusley (Florida purslane) (Mexican clover) (Pusley)	<i>Richardia scabra</i>
Knotweed	<i>Polygonum aviculare</i>
Lambsquarters, common	<i>Chenopodium album</i>
Pigweeds Redroot pigweed (Carelessweed) (Rough pigweed) Prostrate pigweed Spiny amaranth	<i>Amaranthus</i> spp.
Purslane, common	<i>Portulaca oleracea</i>
Redmaids	<i>Calandrinia caulescens</i>

Approved Crops

Peanut

Balan E.C. - Alone

Apply and incorporate Balan E.C. before seeding.

Broadcast Application Rates

Soil Texture	Balan E.C. (quart/acre)
Coarse	3 - 4
Medium	3 - 4
Fine	4

Special Use Instructions

Use the higher indicated application rate on coarse and medium soils where fall panicum or broadleaf signalgrass is present, or where heavy weed populations are present.

Chemigation - Balan E.C. - Alone

Balan E.C. may be applied through properly equipped chemigation systems for weed control in peanuts. Refer to the "Chemigation" section of this label on page 4 for Balan E.C. chemigation instructions. Apply Balan E.C. in 1/2 to 1 inch of irrigation water. Planting and application of Balan E.C. should occur within 2 days after the last tillage operation. To be effective, Balan E.C. must be applied before weed emergence.

Cultivation:

Soil treated with Balan E.C. may be shallow-cultivated or rotary hoed without loss of weed control activity. Avoid deep cultivation which may result in loss of weed control where untreated soil is exposed.

Chemigation Application Rates

Use broadcast application rates for "Peanut - Balan E.C. - Alone".

Tank Mixes with Balan E.C.

Balan E.C. plus Dual Tank Mix

Apply and incorporate the Balan E.C. plus Dual tank mix up to 14 days before planting. Use a total spray volume of 10 to 40 gallons per acre. The Balan E.C. plus Dual tank mix controls weeds susceptible to Balan E.C. plus those weeds listed on the Dual label.

Aerial Application: Apply and incorporate the Balan E.C. plus Dual tank mix up to 14 days before planting. Use a minimum spray volume of 5 gallons per acre.

Broadcast Application Rates

Soil Texture	Balan E.C. (quart/acre)	Dual 8E	
		Less than 3% O.M. (pint/acre)	3% O.M. or Greater (pint/acre)
Coarse	3 - 4	1.5 - 2.0	2.0
Medium	3 - 4	2.0 - 2.5	2.0 - 2.5
Fine	4	2.0 - 2.5	2.5 - 3.0

Fall Panicum and Broadleaf Signalgrass Control: Apply the 4 qt/acre rate of Balan E.C. where fall panicum is present or where weed populations are heavy.

Precaution: Refer to the Dual label for additional use directions, precautions and limitations before use.

Balan E.C. plus Pursuit Combinations

Balan E.C. may be tank mixed with Pursuit and applied as a preplant incorporated treatment to control weeds listed on the labels for Balan E.C. and Pursuit. Use application rates listed above for "Balan E.C. - Alone" and follow application and incorporation directions for Balan E.C.

Broadcast Application Rates†

Soil Texture	Balan E.C. (Quar/Acre)
Coarse/Medium	3.0-4.0
Fine	4.0

†Prior to use, refer to the labeling for use of Pursuit on peanuts for application rates for Pursuit as well as precautions and limitations.

Pursuit may also be used as a preemergence, "at cracking", postemergence or sequential (split) application following preplant soil incorporated application of Balan E.C. Refer to labeling for use of Pursuit on peanuts for application rates, use directions, precautions and limitations before use.

Balan E.C. plus Vernam Tank Mix

Apply and incorporate the Balan E.C. plus Vernam tank mix up to 10 days before planting. Use a total spray volume of 10 to 40 gallons per acre. Incorporate immediately to prevent loss of the Vernam. The Balan E.C. plus Vernam tank mix controls nutsedge in addition to weeds susceptible to Balan E.C.

Broadcast Application Rates**Broadcast Application Rates**

Soil Texture	Balan E.C. (quart/acre)	Vernam 7E (pt/acre)
Coarse	3 - 4	2.33
Medium	3 - 4	2.33
Fine	4	3.0

Fall Panicum Control: Apply the 4 qt/acre rate of Balan E.C. in combination with 2 1/3 pt of Vernam on coarse soils and 3 pt of Vernam on medium soils where fall panicum is present or where weed populations are heavy.

Precaution: Refer to the Vernam label for additional use directions, precautions and limitations before use.

Warranty Disclaimer

DowElanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. DOWELANCO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

It is impossible to eliminate all risks associated with use of this product. Crop injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by Buyer.

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August 23, 1993 [TAG]

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Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

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

DowElanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

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[Base Label of Laminated Booklet - Balan E.C.]

(logo) DowElanco

Balan* E.C.

A selective herbicide for the preemergence control of annual grasses and broadleaf weeds

Active Ingredient:

N-butyl-*N*-ethyl- α , α , α -trifluoro-2,6-dinitro-*p*-toluidine. 19.4%

Inert Ingredients. 80.6%

Contains 1.5 pounds active ingredient per gallon.

Precautionary Statements

Hazards to Humans and Domestic Animals

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.)

Corrosive • Causes Irreversible Eye Damage • Causes Skin Irritation • Harmful If Swallowed, Inhaled Or Absorbed Through The Skin • Balan E.C. May Cause Skin Sensitization Reactions In Certain Individuals

~~Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist or vapors. Wear protective clothing such as goggles or face shield, and coveralls, a long-sleeved shirt and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.~~

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 selections chart.

Applicators and other handlers must wear:

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

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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.

First Aid

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. See an ophthalmologist immediately.

If swallowed: Call a physician or Poison Control Center. This product contains an aromatic hydrocarbon and can be extremely harmful if swallowed. If this happens and the patient is conscious, immediately administer activated charcoal (6-8 teaspoonsful) with water. If patient is unconscious, do not induce vomiting.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops.

If inhaled : Remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, provide cardiopulmonary resuscitation assistance (mouth-to-mouth) and call a physician.

Environmental Hazards

This product is toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not apply when conditions favor runoff or drift from the target area. Do not contaminate water when disposing of equipment washwaters.

Refer to attached label booklet for additional precautionary information including Personal Protective Equipment (PPE), and Directions for Use including Agricultural Use Requirements and Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" in the enclosed label booklet.

In case of emergency endangering health or the environment involving this product, call collect 517-636-4400.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-94

AGL AGH
EPA Est. 1471-IN-2; 5902-GA-01

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Superscripts used are first letters of lot number.
900-00xxxx

Avoid Freezing - Store Above 40° F.

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DowElanco • Indianapolis, IN 46268, U.S.A.

Herbicide

Net Contents 2.5 gal