

20-APR-2004

FRONT

BONANZA® 600

MANUFACTURING CONCENTRATE. FOR USE IN MANUFACTURING

CAUTION POISON

READ THE LABEL AND ATTACHED BOOKLET BEFORE USING

REGISTRATION NO. 23233
PEST CONTROL PRODUCTS ACT

GUARANTEE: Trifluralin 600 g/L

NET CONTENTS: 205 L

United Agri Products Canada Inc.
789 Donnybrook Drive
Dorchester, Ontario
N0L 1G5

Telephone: 519/268-8001 or: 800/561-8273

16292

03/04

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN

HARMFUL IF SWALLOWED

CAUSES SKIN AND EYE IRRITATION

AVOID CONTACT WITH EYES, SKIN AND CLOTHING

This product contains a petroleum distillate at 39.5% which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

FIRST AID TREATMENT

Harmful if swallowed or absorbed through the skin. IF SWALLOWED, do not induce vomiting but contact physician immediately, taking product label with you or contact a poison control centre.

In case of contact with eyes, wash with clean flowing water for at least 15 minutes and get medical attention; in case of skin contact wash with soap and plenty of water. Remove and wash contaminated clothing before re-use.

Do not wear contaminated shoes.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

Treat symptomatically. Contains petroleum distillates.

DISPOSAL

RETURNABLE CONTAINERS:

Do not reuse this container for any purpose. For disposal, this empty container may be returned to the point of purchase (distributor/dealer).

REFILLABLE CONTAINERS:

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NOTICE TO USER: This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER: Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

This sheet will detach at perforation.

Discard in appropriate trash receptacle.

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DATAPAK

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TOXICOLOGICAL INFORMATION

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DIRECTIONS FOR USE

To be used only in the manufacture of a fertilizer-pesticide which is registered under the Fertilizer Act.

GENERAL DIRECTIONS

Carefully read these instructions fully before using BONANZA. Usage not in accordance with these instructions may result in inadequate weed control and may damage crops.

BONANZA is a pre-emergence herbicide which is mixed with fertilizer and then mechanically mixed or incorporated into the soil. It kills weeds as they germinate. It does not kill established weeds. BONANZA gives long lasting control of seedlings of annual grasses and broadleaf weeds detailed below.

WARNING

DIRECT SEEDED

Special attention must be paid to the following aspects of usage:

- Rates must be accurately applied.
- Apply only on soil type indicated (DO NOT APPLY TO peat and muck soils).
- Apply only to soils with less than 15% organic matter which are dry and in good working conditions. Application to soils that are subject to flooding (standing water for more than 3-5 days) may result in reduced weed control. If these soils are flooded for a considerable period of time (3 weeks or more) the result may be no weed control at all.
- Do not apply to soils which are subject to erosion by wind, water and other factors. Application under certain conditions such as low trash cover or light textured soils may predispose the field to wind and/or water erosion and is not recommended.
- Incorporated is an essential part of application. When correctly applied to crops under normal conditions, BONANZA will not harm the crop. Any stress factors such as wet soils, incorrect planting depth, seedling disease, low temperature, excessive salt in the soil, poor soil fertility or drought, could bring about damage to the crop from BONANZA.
- It is recommended that the following crops not follow BONANZA in the rotation cycle: Oats: Small seeded annual grasses such as Canary grass, Creeping Red Fescue; Timothy grass; Sugarbeets. Under normal conditions there will not be a carryover. However, the above recommendation is precautionary.
- Do not apply to soils that are extremely lumpy, cloddy or in poor working condition.
- Do not apply to sandy soils with less than 1% organic matter.
- Application to severely eroded knolls may result in reduced crop stand or rotational crop injury.

Populations of green foxtail tolerant to TRIFLURALIN have developed in a number of fields in Western Canada which have had a long history of repeated TRIFLURALIN use. TRIFLURALIN or ETHALFLURALIN containing products (ie: ADVANCE, BONANZA, HERITAGE, RIVAL, TREFLAN, TRI-FLUREX, TRIFLURALIN, FORTRESS, and EDGE) will not control TRIFLURALIN tolerant green foxtail. To delay selection or reduce the spread of TRI-FLURALIN tolerant green foxtail, avoid use of these products repeatedly in the same field, or use a separate herbicide application for control of TRI-FLURALIN tolerant green foxtail.

CAUTION: Do not graze the treated immature crops or cut for hay; there is not sufficient data available to support such use.

TRANSPLANTS

Reductions in crop yield may occur if BONANZA is applied to weakened transplants. The precautions stated for **Direct Seeded** crops also apply to Transplants. As well, for maximum tolerance of all transplants ensure the following:

- only healthy transplants should be used.
- do not transplant under unfavourable growing conditions such as cool or wet weather.
- follow all label instructions.

BONANZA WITH FLUID FERTILIZERS

BONANZA may be mixed with liquid nitrogen fertilizer, (eg: 28-0-0) for application either preplant soil incorporated or postplant incorporated. All BONANZA label recommendations regarding rates per hectare, approved crops, incorporation, special instructions, cautions and special precautions must be followed.

BONANZA should be poured directly into the liquid fertilizer, mixed thoroughly and applied as soon as possible. Constant agitation is needed until application is complete. Apply the BONANZA fertilizer mixture with a properly calibrated sprayer. Ensure that the material is applied uniformly to the soil surface. Follow normal BONANZA incorporation procedures.

COMPATIBILITY TEST: Because of the wide range of fertilizer products, small amounts of liquid fertilizer and BONANZA should be tested for compatibility prior to tank mixing.

- (1) Place 500 mL of liquid fertilizer into a 1 L jar.
- (2) Pour in 10 mL of BONANZA
- (3) Close jar and shake well.
- (4) Leave jar sit for 5 minutes.

BONANZA and fertilizer are compatible if BONANZA remains in suspension. If the BONANZA settles out quickly but goes into suspension easily upon shaking, the mixture may be used provided constant agitation is utilized. UNITE compatibility agent can be added to improve the compatibility and stability of this fertilizer-herbicide mixture.

BONANZA IMPREGNATED/COATED ON TO DRY GRANULAR FERTILIZER

GENERAL

Dry bulk fertilizer (EXCEPT NITRATE FERTILIZERS) may be impregnated or coated with BONANZA herbicide. Application should be made as soon as possible after blending. All label recommendations regarding rate per hectare, approved crops, incorporation, special instructions, cautions, and

special precautions must be followed. Application may be made in the fall or spring to registered crops pre-plant incorporated. Compliance with the Fertilizer's Act is the responsibility of the company selling herbicides/fertilizer combinations.

MIXING AND BLENDING

A minimum of 200 kg/ha of dry bulk fertilizer impregnated/coated with BONANZA at the recommended rate must be applied. Mix and blend dry fertilizer and BONANZA in any commonly used dry, rotary fertilizer blender, providing uniform spray coverage is obtained. The nozzles used to spray the BONANZA on the fertilizer should be situated to provide uniform spray coverage. Sufficient blending/mixing time should be allowed to ensure uniform coverage of dry fertilizer with BONANZA.

If the fertilizer-herbicide mixture is too wet to allow for uniform application, the use of a highly absorptive material such as diatomaceous earth or finely powdered clay is recommended. Enough absorptive material should be added to ensure a free-flowing mixture.

Higher rates of fertilizer may be required to ensure that mixture is not too wet especially when higher rates of BONANZA are used.

APPLICATION

Spread the fertilizer impregnated with BONANZA immediately after blending is completed. Spread the fertilizer/BONANZA mixture with a properly calibrated granular fertilizer applicator. Be certain the blended material is applied uniformly to the soil surface.

When using spin spreaders a 100% overlap is recommended to assure even distribution. Spin applicators should be calibrated to apply one half of the desired rate per hectare and previous swath. Dribble spreaders must be calibrated with the impregnated fertilizer as flow rate will be slower than those realized with pure dry fertilizer.

BONANZA 600 RATE CHART

When preparing a fertilizer plus BONANZA 600 blend use the correct amount of BONANZA 600 on a quantity of fertilizer so that the correct rate of BONANZA 600 is applied per hectare.

PRAIRIE PROVINCES and the PEACE RIVER REGION of BRITISH COLUMBIA

RECOMMENDED RATES OF BONANZA PER HECTARE

CROP	SOIL TEXTURE		REMARKS
	Light	Medium/ Heavy	
RATE L/ha			
SPRING APPLICATION			
Asparagus, Black Beans, Crambe, Dry Beans (field & kidney), Faba Beans, Mustard, Peas (Field & Canning), Rapeseed (Canola), Safflower, Sainfoin, Soybeans, Strawberries, Sunflowers, Sweet Clover	1.3	1.8	BONANZA can be applied immediately prior to, or up to 3 weeks before planting. Do not apply to mustard on sandy soils.
Shelterbelts (American Elm, Caragana, Green Ash, Scotch Pine and Siberian Elm)	3.7	7.3	Apply prior to transplanting seedlings. The higher rate of application will result in better weed control and longer persistence in the soil.
FALL APPLICATION			
Black Beans, Dry Beans (field & kidney), Faba Beans, Flax, Lentils, Mustard, Peas, Rapeseed (Canola), Safflower, Soybeans, Sunflower,	1.8	2.3	Apply and incorporate between September 1st and up to soil freeze-up.
SUMMER APPLICATION			
Flax, Rapeseed (Canola), Safflower	All Soils at 2.8		Apply and incorporate between June 1st and September 1st. Second and subsequent incorporation's may be done any time up to soil freeze-up.

NOTE: Do not delay incorporation more than 24 hours after application.

CONTROL OF GREEN FOXTAIL (WILD MILLET) IN WHEAT & BARLEY

Barley	Hard Red Spring Wheat
Durum Wheat	Soft White Spring Wheat

MODE OF ACTION

Most Green Foxtail seeds germinate in the upper 5 cm of the soil. BONANZA applied and incorporated into this zone will prevent germination. Wheat and Barley seed should be sown below this layer (5-8cm deep) to prevent crop damage. Apply and incorporate BONANZA after planting but before emergence of Wheat or Barley.

RECOMMENDED RATES:

Light Soils	Heavy Soils
.93 L/ha	1.4 L/ha

EASTERN CANADA AND BRITISH COLUMBIA

TIMING

Apply in the spring and before crop is planted and weed emergence. Apply uniformly to the soil surface and incorporate within 24 hours of application.

RECOMMENDED RATES FOR CROPS IN EASTERN CANADA AND B.C.

Light	SOIL TEXTURE	
	Medium	Heavy
Sand	Loam	Silty clay loam

Sandy loam	Silt loam	Silty clay
	Silt	Clay loam
	Sandy Clay loam	Clay

CROP	(Litres/Hectare)			REMARKS
	Light	Medium	Heavy	
Carrots, Faba beans (horsebeans), Forage kale, Field beans(dry & kidney), Mustard, Rapeseed (canola),Soybeans, Snapbeans, Stubble white turnips (feed only)	1	1.3	1.8	Incorporate immediately after application. Apply from 3 weeks before planting up to the time of planting.
Direct-seeded: Alfalfa, Cabbage, Cauliflower	1	1.3	1.8	Incorporate immediately after application. Apply from 3 weeks before planting up to the time of planting. Direct seeded cabbage and cauliflower have exhibited marginal tolerances to recommended rates of BONANZA. Under some circumstances stunting or reduced stands may occur.
Strawberries	1	1.3	1.8	Incorporate immediately after application. Apply from 3 weeks before planting up to the time of planting.
Rutabaga	n/a	1.3	1.8	Incorporate immediately after application. Apply from 3 weeks before planting up to the time of planting. Do not apply to turnips on sandy soil.
Asparagus	1.7	2.5	3.3	Incorporate immediately after application. Use only on asparagus that has been established for at least 3 years.
Transplants: Broccoli, Brussel sprouts, Cabbage, Cauliflower, Peppers, Tomatoes	1	1.3	1.8	Incorporate immediately after application. Apply from 3 weeks before planting up to the time of planting.
Lima beans, Peas (field & canning)	1	1	1.3	Incorporate immediately after application. Apply from 3 weeks before planting up to the time of planting.
Ornamentals: Transplanted woody nursery stock and perennials	1	1.3	1.8	Incorporate immediately after application. Apply from 3 weeks before planting up to the time of planting.
Ornamentals: Established woody nursery stock	1	1.3	1.8	Use a directed application to the surface. Incorporate carefully as closely as possible to ornamentals. Do not cause damage to roots.

Do not apply BONANZA to ornamental ground covers such as Ajuga, Myrtle and Pachysandra. Injury may result.

INCORPORATION

Follow normal BONANZA incorporation recommendations. The first incorporation should be completed as soon as possible (within 24 hours) after fertilizer application. It is recommended to delay the second incorporation for a period of at least three days following the first to ensure optimum BONANZA dissipation within the soil.

CAUTION

1. To prevent contamination, ensure that the next 2 (two blended batches of fertilizer are used only on those crops for which BONANZA is registered.
2. Do not impregnate BONANZA or any other herbicide on nitrate fertilizers (ammonium, potassium, sodium, calcium). The combination of BONANZA with these fertilizers may result in an explosion.

All other commonly used dry fertilizer can be used for BONANZA impregnation.

USE PRECAUTIONS

This product contains a petroleum distillate at 39.5% which is moderately to highly toxic to aquatic organisms. Avoid contamination of aquatic systems during application. Do not contaminate these systems through direct application, disposal of waste or cleaning equipment.

Gloves and goggles should be worn when handling. Avoid inhalation of vapours.

Do not contaminate water by cleaning of equipment or disposal of wastes. Do not contaminate water used for irrigation or domestic purposes. DO NOT APPLY BY AIR.

STORAGE

Store in heated storage. Do not store near fertilizers, feeds, seeds, insecticides or fungicides. Do not store near heat or flame. Active ingredient crystallization may occur at temperatures below 5°C. If stored below 5°C, check for crystals in the bottom of each container. If crystals are present, place the container in a warm area (at least 15°C) for several hours. Then agitate contents. After several hours, if any crystals remain, agitate container again. ENSURE ALL CRYSTALS ARE DISSOLVED BEFORE USING.

FIRE AND SPILLS

(Use appropriate safety equipment). Absorb spill in inert material such as sand or sawdust. Dike area in case of large spills. Do not clean up with water.

If involved in fire use water fog, foam, CO₂, dry chemical. If fighting fire use pressure demand self-contained air supply. Noxious fumes may be produced under fire conditions. Contain water from fire fighting to prevent entry to water supplies.

For large spills, contact UNITED AGRI PRODUCTS CANADA INC.

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