



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

DEC 7 1993

Richard P. Honeycutt  
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AGRICULTURE DIVISION  
8400 Hawthorn Rd  
P.O. Box 4913  
Kansas City, MO 64120

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 08/13/93 in Response to PR Notice 93-7  
EPA Reg. No. 3125-366  
TURBO I EC HERBICIDE

**IMPORTANT NOTICE:** This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

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 listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**SERIOUS ERROR(S) ON SUBMITTED LABELING:**

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

**YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING.** Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

**YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.**



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

Each notification must include the following information:

1. Registrant 's name and address.
2. EPA Registration number of the product for which the labeling was submitted.
3. Whether any product already has been sold or distributed (this includes released for shipment) bearing the submitted labeling.

In addition, the notification must include the following information, IF you have already sold or distributed any product bearing the submitted labeling:

1. Quantity of the product that has been sold or distributed.
2. EPA Producing Establishment number.
3. Location of the product, if known.
4. Proposed plan for assuring that product with the incorrect labeling in your control, as well as that in the hands of dealers/distributors/users, will be corrected. The plan must include your proposal for assuring that the labeling is corrected as soon as possible.

Submit the notification to:

Michael Wood, Director  
Compliance Division, (7203)  
Worker Protection Notification  
Office of Compliance Monitoring  
U.S. Environmental Protection Agency  
401 M Street SW  
Washington, DC 20460

Failure to submit a notification also may result in initiation of an action under FIFRA for civil penalties, if you sold or distributed (this includes released for shipment) product bearing the incorrect labeling.

**IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.**

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the 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 neither been reviewed nor 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:**

Submit the required notification. Then 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 as amended

**AND**

- **WITHIN** one year from date of this acceptance.

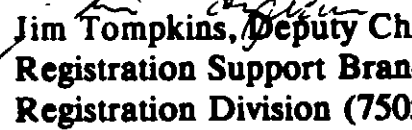
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,

  
Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

cc: Office of Compliance Monitoring

# TURBO 8EC Herbicide

366-7932.BLD

U. S. LABEL

Base Pre-Reg (7932)

501 100

Reason to Issue: Labeling revisions required  
by the Worker Protection Standard (WPS);  
EPA PR Notice 93-7.

Date of Draft: 07/20/93(H)  
Supersedes Draft Dated: 06/01/93

## TURBO 8EC Herbicide

**FOR CONTROL OF CERTAIN GRASSES AND BROADLEAF WEEDS  
IN SOYBEANS AND POTATOES**

**ACTIVE INGREDIENTS:**

Metolachlor, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)-acetamide*	70%
Metribuzin, 4-amino-6-(1,1-dimethylethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one	15%
INERT INGREDIENTS	15%
	100%

Contains 6.55 pounds of metolachlor and 1.45 pounds of metribuzin per gallon.

EPA Reg. No. 3125-366

EPA Est. 3125-MO-1

\*U.S. Patent No. 3,937,730

Net Contents \_\_\_\_\_ Gallons

**STOP - READ THE LABEL BEFORE USE**

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

See Page 2 for Additional Precautions and Statements of Practical Treatment

### AVISO

~~PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.~~

~~(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)~~

**MILES** 

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

DEC - 7 1993

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

3125-366

# CAUTION

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation. This product may cause allergic skin reactions. ~~Wear protective clothing (coveralls and gloves) while handling or using this product. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and warm water after handling. Wash contaminated clothing with soap and hot water before reuse.~~

Keep out of reach of children.

Obtain prompt medical aid if poisoning should occur.

#### **Personal Protective Equipment:** **Applicators and other handlers must wear:**

- ~~Coveralls over short-sleeved shirt and short pants~~
- ~~Water-proof gloves~~

~~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:** **User should:**

- ~~Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.~~

**To Physician:** No specific antidote is available. Treat the patient symptomatically.

**SYMPTOMS OF POISONING:** The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by breathing difficulties and sedation.

## STATEMENTS OF PRACTICAL TREATMENT

If in eyes, immediately flush eyes with plenty of water for at least 15 minutes. For further treatment get medical attention. If swallowed, call a physician or poison control center. Vomiting should be induced. Administer water freely, and induce vomiting by giving one dose (1/2 oz or 15 ml) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If

syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately. If on skin, wash thoroughly with soap and warm water.

## RE-ENTRY STATEMENTS

~~Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.~~

~~Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings should include those statements found under the label heading~~

~~"Precautionary Statements" and "Re-entry Statements" included on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: WARNING, area treated with TURBO SEC herbicide on (date of application). Do not enter without appropriate protective clothing until sprays have dried. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes. If swallowed, vomiting should be induced. (See Precautionary Statements on label).~~

## ENVIRONMENTAL HAZARDS

Do not use on other crops grown for food or forage. 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. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from areas treated. Apply this product only as specified on this label.

Do not allow sprays to drift on to adjacent desirable plants.

Observe all cautions and limitations on labeling of all products used in mixtures.

### Ground Water and Surface Water Advisories

Metolachlor has been identified in limited sampling of ground water and there is the possibility that it may leach through the soil to ground water, especially where soils are coarse and ground water is near the surface. Following application and during rainfall events that cause runoff, metolachlor may reach surface water bodies including streams, rivers, and reservoirs. Care must be taken when using this product to prevent back siphoning into wells, spills or improper disposal of excess pesticide, spray mixture or rinsates. Check valves or antisiphoning devices must be used on all mixing equipment.

Metribuzin is a chemical which can travel (seep or leach) through soil and can contaminate ground water which may be used as drinking water. Metribuzin has been found in ground water as a result of agricultural use. Users are advised not to apply metribuzin where the water table (ground water) is close to the surface and where the soils are very permeable, i.e., well drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

## 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 the agency responsible for pesticide regulation.

• Waterproof gloves

• Shoes plus socks

Do not contaminate feed or food.

**IMPORTANT:** Read these entire Directions for Use and Conditions of Sale before using TURBO SEC herbicide.

### 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 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

**CONDITIONS OF SALE:** THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. 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, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. MILES OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

**GENERAL INFORMATION**

**MIXING:** When using TURBO 8EC, make sure the sprayer is completely clean, free of rust or corrosion which occurs from Winter storage. Examine strainers and screens to be sure the sprayer is clean from previously used pesticides.

Any tank mix containing TURBO 8EC should be kept agitated and sprayed out immediately. Do not allow tank mixes to stand for prolonged periods of time.

The proper mixing procedure for TURBO 8EC alone or in tank mix combinations with other herbicides is:

(Emulsifiable Concentrates):

1. Fill the spray tank 1/4 to 1/3 full with clean water.
2. Add recommended rate of TURBO 8EC while recirculating and with agitator running.
3. Follow the triple rinse procedure described under "STORAGE AND DISPOSAL" to insure that all product is removed from the container.
4. Mix thoroughly and add clean water to fill spray tank to desired level.
5. Add the other emulsifiable concentrate herbicide to tank last and agitate thoroughly.
6. Continue agitation during application and until sprayer tank is empty.

(Other Products): If the tank mix combination is to be made using a wettable powder, liquid solution, liquid flowable, or water dispersable granules, TURBO 8EC should be added last after the other herbicide has been thoroughly dispersed.

**CHEMIGATION**

TURBO 8EC is recommended for application through sprinkler irrigation equipment to potatoes as directed on this label. Refer to the "Potatoes" section of this label for recommended rates, weeds controlled or suppressed, restrictions, and special precautions.

Apply this product only through sprinkler (including center pivot, lateral move, or solid set) irrigation systems. 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 non-uniform distribution of treated water.

**Calibration:** (Center Pivot and Self-Propelled Lateral Move Systems)

Sprinkler irrigation systems must be accurately calibrated for application of TURBO 8EC. Greater accuracy in calibration (and distribution) will be achieved by injecting a larger volume of a more dilute mixture of product and water per hour. Follow the steps below to calibrate center pivot and lateral move systems:

1. Determine number of minutes required to make one complete revolution while applying 1/4 to 3/4 inch of water per acre.
2. With the system at operating pressure determine the exact number of minutes required to inject one gallon of water.
3. Divide the time required for one revolution (step 1) by the time required to inject one gallon (step 2). This gives total gallons of product-water mixture to be added to the nurse tank.
4. Add required amount of water to nurse tank and start the agitation system. Then add sufficient TURBO 8EC at the recommended rate (See RECOMMENDED BROADCAST APPLICATIONS) to the nurse tank.

**Example:** If 20 hours (1200 minutes) were required for one revolution and if 2 minutes were required to inject one gallon, then a total of 600 gallons of product-water mixture are required ( $1200/2 = 600$ ); to treat 135 acres at 2 pints/acre, 270 pints (33.75 gallons) of TURBO 8EC are required.

If you have questions about calibration, you should contact State Extension Service Specialist, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

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.

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 backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

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.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

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 where pesticide distribution is adversely affected.

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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Maintain continuous agitation in the injection nurse tanks during the herbicide application, sufficient to keep herbicide in suspension.

Apply specified dosage in 1/4 to 3/4 inch of water (1/4 to 1/2 inch of water on sandy soils) per acre as a continuous injection in center pivot and lateral move systems or in the last 15 to 30 minutes of set in permanent solid set sprinkler systems. Application of more than the quantity of irrigation water recommended on this label may result in decreased product performance by removing the chemical from the zone of effectiveness.

Where sprinkler distribution patterns do not overlap sufficiently unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. To insure that all lines are flushed and free of remaining pesticide, an indicator dye may be injected into the lines to mark the end of the application period.

Use a minimum of 1 part water to 1 part herbicide for injection. The use of a larger volume of water will insure greater accuracy and more uniform distribution.

**APPLICATION:** Use a standard low pressure (20 to 40 psi) herbicide boom sprayer equipped with suitable nozzles and screens no finer than 50-mesh in-nozzle and in-line strainers. Agitate thoroughly before and during application with bypass agitation.

**Ground Application:** Apply the proper rate of TURBO SEC in a minimum of 10 to 40 gallons of spray mixture per acre broadcast. For banded application, use proportionally less TURBO SEC per acre in a band versus a broadcast application. For band application, use 1/4 to 1 gallon of spray mix per inch of band width regardless of row spacing.

**Examples:** To treat a 15-inch band on rows 30 inches apart, use one-half of the broadcast rate of TURBO SEC. To treat a 14-inch band on rows 42 inches apart, use one-third of the broadcast rate of TURBO SEC.

**Aerial Application:** Where permitted, apply specified rate in a minimum of 2 to 10 gallons of spray mixture per acre. Do not apply aurally when wind speed is greater than 10 mph.

## FOR ALL APPLICATIONS OF TURBO SEC:

Sprayer must be accurately calibrated before applying TURBO SEC. Check sprayer during application to be sure it is working properly and delivering a uniform spray pattern. As the volume of spray mixture decreases per acre, the importance of accurate calibration and uniform application increases. Avoid over application, misapplication, and boom and spray swath overlapping that will increase spray dosage. (Crop injury may occur as a result). Avoid spray skips and gaps which allow weeds to grow in untreated soil. Do not apply when weather conditions favor spray drift and/or when sensitive or cool season crops, such as cole crops, onions, peas, or strawberries are present in adjacent fields or in areas where wheat is growing in coarse textured soils.

**SPRAYER CLEANUP:** Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops to be sprayed. Drain any remaining spray solution of TURBO SEC from the spray tank and dispose of according to label disposal instructions. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of one cup per 20 gallons of water. Recycle this mixture through the equipment for 5 minutes and spray out. Repeat this procedure twice. Fill the spray tank with clean water, recycle for 5 minutes and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of spray tank, nozzles or spray rig. All rinse water must be disposed of in compliance with local, state, and Federal guidelines.

## APPLICATION OF TURBO SEC IN FLUID FERTILIZERS

TURBO SEC may be applied in fluid fertilizer solutions to soybeans by following the appropriate mixing procedures and compatibility check. Compatibility checks of TURBO SEC should be made for each batch of fluid fertilizer because of the variability of these fertilizers.

## COMPATIBILITY CHECK:

1. Premix 2 teaspoonfuls of TURBO SEC with 8 teaspoonfuls of water (1:4 ratio) in a quart jar by adding the water first and follow with TURBO SEC. Mix thoroughly.
2. Then pour 1 pint of fluid fertilizer into the quart jar and shake well.
3. Allow to stand for 5 minutes.

**THIS COMPATIBILITY CHECK SHOULD ONLY BE USED WHEN MIXING WITH FLUID FERTILIZERS.**

**INTERPRETATION OF RESULTS:** If the solution in the jar appears to be uniform, without signs of agglomeration, or without a separation of an oily film on top of the fertilizer, the mixture may be used. If not, repeat the compatibility check using twice the amount of water or add a compatibility agent to the water. If separation occurs and can be resuspended by shaking, then application is possible with good agitation in the spray tank.

## COMMERCIAL IMPREGNATION AND APPLICATION OF TURBO SEC ON DRY BULK FERTILIZER

Dry bulk fertilizer may be impregnated or coated with TURBO SEC for application to soybeans. All recommendations, cautions, and special precautions on the label must be followed along with State regulations relating to dry bulk fertilizer blending, impregnating and labeling.

**IMPREGNATION:** To impregnate, use a system consisting of a belt, conveyor, or closed drum which is used for dry bulk fertilizer blending. Any commonly used fertilizer can be impregnated with TURBO SEC except ammonium nitrate, or fertilizers containing ammonium nitrate, potassium nitrate, or sodium nitrate. Do not use on powder limestone.

Apply using a minimum of 200 pounds dry bulk fertilizer per acre and up to a maximum of 450 pounds per acre. To impregnate or coat the dry bulk fertilizer with TURBO SEC, the delivery nozzles must be directed to deliver a fine spray toward the fertilizer for thorough coverage while avoiding spray contact with mixing equipment. Uniform impregnation of TURBO SEC to dry bulk fertilizer will vary and if the absorptivity is not adequate, an absorptive powder may be added to produce a dry free-flowing mixture. Micro-Cel E (Johns-Manville Product Corporation) is the recommended absorbent powder.

TURBO SEC should be pre-mixed with water to form a sprayable mixture. Apply immediately after impregnation unless experience has shown that impregnated fertilizer can be stored without becoming lumpy and difficult to spread.

**RATES:** Select the recommended rate of TURBO SEC per acre from the appropriate section of this label and refer to the formula below to determine the amount of TURBO SEC which is to be impregnated on a ton of dry bulk fertilizer based on the amount of fertilizer which will be distributed on one acre.

Pints TURBO		2000		Pints TURBO
SEC Per Acre	X	lbs. Fertilizer	=	SEC per Ton
		Per Acre		of Fertilizer

**APPLICATION:** Uniform application is essential for satisfactory weed control. Accurate calibration of fertilizer application equipment is essential for uniform distribution to the soil surface. The recommended method of application is to apply 1/2 the recommended rate and overlap 50 percent or to double apply by splitting the middles to obtain the best distribution pattern.

If fertilizer materials are excessively dusty, use diesel oil or other suitable additive to reduce dust prior to impregnation as dusty fertilizer will result in poor distribution during application. Crop injury and/or poor weed control may occur where the impregnated fertilizer is not uniformly applied.

## SOYBEANS (Except California)

TURBO SEC is recommended for preplant or shallow incorporated, preemergence, SPLIT SHOT and EXTENDED SPLIT SHOT application to control certain weeds in soybeans. All applications where permitted can be applied with ground or aerial spray equipment.

**Activation:** A minimum amount of soil moisture is required to activate TURBO SEC. In areas of low rainfall, preemergence applications to dry soil should be followed with light irrigation of 1/4 acre inch of water. Do not apply heavy irrigation immediately after application. As with many surface-applied herbicides, weed control and crop tolerance may vary with rainfall and/or soil texture.

**Grazing and Feeding Treated Vines:** Treated vines may be grazed or fed to livestock 40 days after the application of TURBO SEC.

**Rate Ranges:** Where a rate range is shown, use a lower rate on soils that are coarse-textured or low in organic matter. Use higher rate on soils that are relatively fine-textured or high in organic matter.

**Replanting:** If replanting is necessary in fields previously treated with TURBO SEC as directed on this label, the field may be replanted to soybeans. However, a minimum of tillage is recommended. Do not apply a second treatment as injury to soybeans may occur.

**SPECIAL PRECAUTIONS (SOYBEANS):** Injury to soybeans may occur when TURBO SEC is used under the following conditions:

1. When soils have a calcareous surface area or a pH of 7.5 or higher.
2. Due to the sensitivity of certain soybean varieties, TURBO SEC is not recommended for use on Altona, AP 55, AP 71, Asgrow 6520, Burlison, Coker 102, Coker 156, Dassel, GL 3202, Govan, Maple Amber, NB 3665, NKS 1884, Paloma 350, Portage, Regal, Semmes, Terra-Vig 505, Terra-Vig 606, Tracy, Vansoy, and Vinton 81. Consult your Miles representative or your seed supplier for information on the tolerance of newly released soybean varieties prior to use of TURBO SEC.
3. When applied in conjunction with soil-applied organic phosphate pesticides.
4. Over application or boom overlapping may result in stand loss and soil residues.
5. Uneven application or improper incorporation can decrease the level of weed control and/or increase the level of injury.
6. When applied to any soil with less than 1/2% organic matter.

**IN COARSE (LIGHT) SOILS ONLY**

(Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia.)

**TURBO 8EC** is recommended for use as a preplant incorporated and preemergence application in coarse-textured, low organic matter soils in the states listed above for the control of certain weeds in soybeans. Refer to the appropriate sections of this label for specific directions on use, recommendations and restrictions.

**MIXING:** Refer to the "General Information" section in the front of this label.

**APPLICATION:** For specific application information, refer to the "General Information" section in the front of this label.

**Weeds Controlled:** Refer to the "TURBO 8EC Alone" section of this label for a complete list of weeds controlled.

TURBO 8EC Preemergence Application (Broadcast Rates)		
Soil Texture	Organic Matter	TURBO 8EC (pints/acre)
Coarse Soils (Sand*, loamy sand, sandy loam)	0.5% or above	1-1/2 - 2-1/2*

\*Not recommended for use on sand with less than 1% organic matter.

\*Use the higher rate under heavy weed pressures and/or on soils higher in organic matter. Soybean varieties with a high level of metribuzin tolerance are recommended when using the high rate. For maximum control of sicklepod, use a preemergence application.

**SPECIAL PRECAUTIONS:** For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this label.

**TURBO 8EC PLUS OVERLAY APPLICATION OF SENCOR HERBICIDE**

**TURBO 8EC** applied preplant or shallow incorporated followed by an overlay application of **SENCOR** herbicide will control more broadleaf and grass weeds in soybeans than when either herbicide is used alone.

Refer to the **SENCOR** herbicide label and to appropriate sections of this label, for directions for soil preparation, herbicide application, incorporation techniques, and for additional directions on rates, weeds species controlled, and special precautions.

**Application:** Apply **TURBO 8EC** as a preplant or shallow incorporated application up to 14 days before planting at rates listed below. This is followed by **SENCOR** herbicide alone at the indicated rates as a preemergence overlay application after planting but prior to soybean emergence.

On medium and fine textured soils with greater than 2% organic matter, a rate range is recommended for the preemergence overlay application of **SENCOR** herbicide. The higher rate should be used (a) in fields with a history of severe broadleaf weed pressure, (b) when the time between preplant incorporated tank mix and preemergence overlay applications approaches the maximum 14 days as stated above, and/or (c) when the organic matter content of the soil is at the upper end of the indicated range.

**Weeds Controlled:** In addition to the weeds controlled by **TURBO 8EC** alone, **TURBO 8EC** herbicide with **SENCOR** herbicide will control Buffalobur, Cocklebur, and Sunflower.

TURBO 8EC Plus SENCOR 4 Overlay Application (Broadcast Rates)					
Soil Texture	Preplant Incorporated Application	FOLLOWED BY	Preemergence Overlay Application		
	TURBO 8EC (Pints/Acre)		SENCOR 4 (pints/acre)		
			ORGANIC MATTER		
			0.5 to 2%	2 to 4%	Over 4%
Coarse* (Sand, loamy sand, sandy loam)	1-1/2	- followed by -	1/4	1/4	1/4 - 1/2
Medium (Loam, silt loam, sandy clay loam, silt, sandy clay)	2	- followed by -	1/4	1/4 - 1/2	1/2 - 3/4
Fine (Silty clay loam*, clay loam, silty clay, clay)	2-3/4	- followed by -	1/4	1/4 - 1/2	1/2 - 3/4

TURBO 8EC Plus SENCOR DF Overlay Application (Broadcast Rates)					
Soil Texture	Preplant Incorporated Application	FOLLOWED BY	Preemergence Overlay Application		
	TURBO 8EC (Pints/Acre)		SENCOR DF (lbs/acre)		
			ORGANIC MATTER		
			0.5 to 2%	2 to 4%	Over 4%
Coarse* (Sand, loamy sand, sandy loam)	1-1/2	- followed by -	1/6	1/6	1/6 - 1/3
Medium (Loam, silt loam, sandy clay loam, silt, sandy clay)	2	- followed by -	1/6	1/6 - 1/3	1/3 - 1/2
Fine (Silty clay loam*, clay loam, silty clay, clay)	2-3/4	- followed by -	1/6	1/6 - 1/3	1/3 - 1/2

\*Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

\*Do not use on coarse-textured soil with less than 1% organic matter, a calcareous surface area or a pH of 7.5 or higher.

**SPECIAL PRECAUTIONS:** For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this label and the SENCOR herbicide label.

### **SPLIT-SHOT APPLICATION**

TURBO 8EC applied preplant or shallow incorporated followed by a preemergence application of TURBO 8EC will control more broadleaf and grass weeds in soybeans than when either application is used alone.

Refer to the appropriate sections of this label for directions for soil preparation, herbicide application, incorporation techniques, and for additional directions on rates, weeds species controlled, and special precautions.

**Applications:** Apply TURBO 8EC as a preplant or shallow incorporated application up to 14 days before planting at rates listed below. This is followed by TURBO 8EC at the

indicated rates as a preemergence overlay application after planting but prior to soybean emergence.

Where a rate range is recommended for TURBO 8EC, the higher rate should be used (a) in fields with a history of severe broadleaf weed pressure, (b) when the time between preplant incorporated and preemergence overlay applications approaches the maximum 14 days as stated above, and/or (c) when the organic matter content of the soil is over 3 percent.

**Weeds Controlled:** in addition to the weeds controlled by TURBO 8EC alone, SPLIT-SHOT application of TURBO 8EC will control Buffalobur, Cocklebur, and Sunflower.

SPLIT-SHOT APPLICATION (Broadcast Rates)			
Soil Texture	Preplant Incorporated Application	FOLLOWED BY	Preemergence Overlay Application
	TURBO 8EC (Pints/Acre)		TURBO 8EC (pints/acre)
Coarse* (Sand, loamy sand, sandy loam)	1 - 1-1/2	- followed by -	3/4 - 1
Medium (Loam, silt loam, sandy clay loam, silt, sandy clay)	1-3/4 - 2	- followed by -	3/4 - 1
Fine (Silty clay loam*, clay loam, silty clay, clay)	2 - 2-1/2 <sup>b</sup>	- followed by -	3/4 - 1 <sup>b</sup>

\*Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

<sup>a</sup>Do not use on coarse-textured soil with less than 1% organic matter, a calcareous surface area or a pH of 7.5 or higher.

<sup>b</sup>Total not to exceed 3 pints/acre on soils with organic matter less than 3 percent.

**SPECIAL PRECAUTIONS:** For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this label.

### TURBO 8EC PLUS SCEPTER TANK MIX APPLICATION

TURBO 8EC may be applied with Scepter herbicide (1.5 lb/gal. liquid or 70 DG) as a preplant incorporated, preemergence broadcast or band application, for the control of certain broadleaf weeds and grasses in soybeans. Consult the Scepter label for specific directions on use, recommendations, restrictions and any additional weeds not specified on this label.

**Mixing:** Refer to the "General Information" section in the front of this label.

**Application:** For specific application information, refer to the "General Information" section in the front of this label.

**Weeds Controlled:** In addition to weeds controlled by TURBO 8EC alone, TURBO 8EC plus Scepter will control the following annual broadleaf weeds:

Buffalobur  
Morningglory, smallflower  
Cocklebur  
Sicklepod  
Morningglory, pittedSunflower

TURBO 8EC plus Scepter will provide suppression (reduce the competition) of ivyleaf and tall morningglory, and giant ragweed.

TURBO 8EC plus Scepter Application (Broadcast Rates)				
Soil Texture	TURBO 8EC <sup>a</sup> (pints/acre)	Scepter 1.5 AS <sup>b</sup> (pints/acre)	OR	Scepter 70 DG <sup>b</sup> (ounce/acre)
Coarse (loamy sand or sandy loam)	1-1/2 <sup>c</sup>	1/3 - 1/2		1.4 - 2.1
Medium (loam, silt loam, silt, sandy clay, sandy clay loam)	1-3/4 - 2-1/4	1/3 - 1/2		1.4 - 2.1
Fine (silty clay, silty clay loam <sup>a</sup> , clay, clay loam)	2-1/4 - 2-3/4	1/3 - 1/2		1.4 - 2.1

<sup>a</sup>Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

<sup>b</sup>Higher rate is recommended on soils with organic matter greater than 3%.

<sup>c</sup>For preemergence application, use the higher rate. For maximum control of moderate to heavy infestations of cocklebur, giant ragweed and sicklepod, use the higher rate and a preplant incorporated application.

<sup>d</sup>For Southern and Southeastern States in coarse soils, see the "IN COARSE (LIGHT) SOILS ONLY" section of this label for TURBO 8EC rates.

**Special Precautions:** For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this and the Scepter label.

Do not use vines treated with Scepter for feed or forage.

### SEQUENTIAL APPLICATION OF SCEPTER FOLLOWING TURBO

If needed, application of TURBO 8EC alone or in a registered tank mix according to directions on this label, may be followed by an early postemergence application of Scepter herbicide for control of cocklebur. Apply 1/6 to 1/3 pint of Scepter (0.7 to 1.4 ounces of Scepter 70 DG) in a minimum of 20 gallons of water per acre. Use 1/6 pint of Scepter (0.7 ounce of Scepter 70 DG) if cockleburs are less than 3 inches tall or have fewer than 3 leaves and are actively growing. For cockleburs less than 6 inches tall and actively growing use 1/3 pint (1.4 ounces of Scepter 70 DG) per acre. Do not use Scepter when soybeans or cockleburs have been subjected to stress conditions such as temperature or moisture extremes. Do not exceed a total of 2/3 pint of Scepter (2.8 ounces of Scepter 70 DG) per acre in one season. Wait at least 10 days after application of Scepter before cultivating.

When preparing the spray mixture with Scepter, add 2 pints of nonionic surfactant approved for use on growing crops and containing at least 80% active ingredient per 100 gallons of mixture. Apply crop oil concentrate (COC) at the rate specified on the COC label.

Use Scepter only in the states where it is registered as listed on the product label.

Apply Scepter at least 90 days before harvest of soybeans. Do not graze or feed soybean forage, hay, or straw to livestock.

Refer to the Scepter label for additional cautions and precautions, directions, limitations, and information on environmental hazards and planting of rotational crops.

# TURBO PLUS CANOPY® TANK-MIX

**Weeds Controlled:** A tank-mix combination of TURBO 8EC plus Canopy (75 DG) herbicide is recommended for control of the following weeds in soybeans:

## Annual Grasses

Barnyardgrass  
Bluegrass  
Broadleaf signalgrass  
Browntop millet  
Crabgrass  
Crowfootgrass  
Foxtails  
Goosegrass  
Johnsongrass (seedling)  
Junglerice  
Panicum, Fall  
Panicum, Texas  
Sandbur  
Sprangletop  
Stinkgrass

## Annual Broadleaves

Bristly starbur  
Carpetweed  
Cocklebur  
Copperleaf, Hophornbeam  
Florida beggarweed  
Florida pusley  
Galinsoga  
Jimsonweed  
Knotweed  
Kochia  
Lambsquarters  
Pigweed  
Prickly Sida/Teaweed

Purslane  
Ragweed, Common  
Redweed  
Russian thistle  
Sesbania  
Shepherdspurse  
Smartweed  
Spurred anoda  
Velvetleaf  
Venice mallow  
Wild mustard

Apply this tank-mix combination broadcast preemergence or broadcast preplant incorporated. Refer to the table below for the recommended rates of each product to be used in the tank-mix combination.

TURBO 8EC plus Canopy (75 DG) Tank-Mix Preemergence or Preplant Incorporated Application (Broadcast Rates)		
Soil Texture <sup>1</sup>	TURBO 8EC <sup>2</sup> (pints/acre)	CANOPY (75 DG) (ounces/acre)
Coarse (loamy sand or sandy loam)	1-1/2 <sup>3</sup>	3
Medium (loam, silt loam, silt, sandy clay, sandy clay loam)	1-3/4 - 2-1/4	3
Fine (silty clay, silty clay loam*, clay, clay loam)	2-1/4 - 2-3/4	3 - 4

\*Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

<sup>1</sup>Do not use on soils with pH greater than 7.0.

<sup>2</sup>Use higher rate on soils with more than 3% organic matter.

<sup>3</sup>For Southern and Southeastern States in coarse soils, see "IN COARSE (LIGHT) SOILS ONLY" section of this label for rates of TURBO 8EC.

Refer to the "General Information" section of this label for mixing and application directions.

**IMPORTANT:** If weeds escape in fields treated with this tank-mix combination, postemergence application of a registered and recommended herbicide will be needed for control.

**SPECIAL PRECAUTIONS:** Do not use treated vines for feed or forage.

For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this label and the label for Canopy 75 DF.

**TURBO 8EC PLUS COMMAND® 4EC TANK MIX APPLICATION**

TURBO 8EC may be applied with Command 4EC as a preplant or shallow incorporated broadcast application for the control of certain broadleaf weeds and grasses in soybeans. Consult the Command 4EC label for specific directions for use, recommendations and restrictions not specified on this label.

**Mixing:** Refer to the "General Information" section in the front of this label.

**Application:** For specific application information, refer to the "General Information" section in the front of this label.

**Weeds Controlled:** In addition to weeds controlled by TURBO 8EC alone, TURBO 8EC plus Command 4EC will provide improved control of heavy infestations of velvetleaf, jimsonweed and common ragweed.

TURBO 8EC plus Command 4 EC Application (Broadcast Rates)		
Soil Texture	TURBO 8EC* (Pints/Acre)	Command 4 EC (Pints/Acre)
Coarse (loamy sand or sandy loam)	1-1/2 - 1-3/4*	1/2 - 3/4
Medium (loam, silt loam, silt, sandy clay, sandy clay loam)	1-3/4 - 2-1/4	1/2 - 3/4
Fine (silty clay, silty clay loam*, clay, clay loam)	2-1/4 - 2-3/4	1/2 - 3/4

\*Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

\*Higher rate is recommended on soils with organic matter greater than 3%.

\*For Southern and Southeastern States in coarse soils, see the IN COARSE (LIGHT) SOILS ONLY Section of this label for TURBO 8EC rates.

**Special Precautions:** Do not plant wheat, oats, barley, rye or alfalfa in the fall or following spring after application as crop injury may occur.

Do not use vines treated with Command 4EC for feed or forage.

For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this label and the Command 4EC label.

Do not apply where weather conditions favor drift.

**TURBO 8EC IN REDUCED-TILLAGE OR NO-TILL SYSTEMS**

**Application:** TURBO 8EC may be applied in combination with Gramoxone® Extra, Roundup® or 2,4-D low volatile ester for the control of annual grasses and broadleaf weeds and the suppression of emerged perennial weeds where soybeans are directly seeded into a stale seedbed, cover crop, or in previous crop residues.

**Special Precautions:** Poor weed control and/or crop injury may result if directions are not followed. Do not use a rib-type press wheel on your no-till planter or crop injury may result. For additional precautions, restrictions, limitations, and sprayer clean-up information, refer to the appropriate sections of the Gramoxone Extra, Roundup, 2,4-D low volatile ester and this label.

**TURBO 8EC plus Gramoxone Application:** Apply 0.8 to 1.6 pints of Gramoxone Extra with TURBO 8EC at the rates listed below as a preemergence broadcast ground spray. Use the higher rate of Gramoxone for weeds 4 to 6 inches tall. Soybeans exposed at the time of application will be killed. Apply in 20 to 60 gallons spray mix per acre. Use the higher volume in fields with heavy weed infestation or with large amounts of previous crop residues. When a surfactant is needed,

add Ortho X-77® Spreader or similar non-ionic spreader at 8 fl. ounces per 100 gallons of diluted spray. Refer to the Gramoxone Extra label for rates, directions, limitations and precautions.

**TURBO 8EC plus Roundup Application:** Apply 1 to 1.5 quarts of Roundup with TURBO 8EC at the rates listed below as a preemergence broadcast ground spray. Use the higher rates of Roundup for weeds greater than 6 inches tall. Refer to the Roundup label for additional rate information, directions, limitations and precautions.

**TURBO 8EC plus 2,4-D low volatile ester Application:** Apply 1.0 lb active ingredient (ai) per acre of 2,4-D low volatile ester with TURBO 8EC at the rates listed below as a early preplant surface application. Application is recommended 30 days prior to planting. Refer to the 2,4-D low volatile ester label for additional rate information, directions, limitations and precautions.

**Weeds Controlled:** TURBO 8EC herbicide combinations will control the weeds listed in the TURBO 8EC alone section. Refer to the Gramoxone, Roundup or 2,4-D low volatile ester labels for additional weeds controlled.

NO-TILL OR REDUCED-TILL APPLICATION (Broadcast Rates)	
Soil Texture	TURBO 8EC Pints/Acre*
Coarse <sup>b</sup> (loamy sand, sandy loam)	1-1/2 - 2-1/4
Medium (loam, silt loam, silt, sandy clay, sandy clay loam)	2-1/4 - 3
Fine (silty clay, silty clay loam <sup>c</sup> , clay, clay loam)	3 - 3-3/4

\*Use low rate range for low trash level or soils with less than 3% organic matter. Use the higher rate range for high trash level or soils with greater than 3% organic matter.

<sup>b</sup>Do not use on sand soils. On coarse-textured soils, do not use on loamy sand soils with less than 2% organic matter.

<sup>c</sup>Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

## EXTENDED SPLIT-SHOT APPLICATION

An early preplant (surface-applied or shallow incorporated) application of TURBO 8EC, followed by a preemergence surface application of TURBO 8EC after planting but prior to soybean emergence, will provide more consistent control of broadleaf and grass weeds than a single application.

An Extended SPLIT-SHOT application will decrease the need for tillage and/or contact herbicides for the control of existing vegetation prior to planting, while providing residual control of weeds after planting.

**Application:** An early preplant application may be made 15 to 30 days prior to planting soybeans. Follow this application with a preemergence overlay application after planting but before crop emergence. Follow directions on this label for SPLIT-SHOT applications from 0 to 14 days before planting.

Where a rate range is recommended, the higher rates should be used (a) in fields with a history of severe weed pressure, (b) when the time between early preplant and preemergence overlay applications approaches the maximum 30 days, (c) when the organic matter content of the soil is over 3 percent, and/or (d) when heavy crop residues are present on the soil surface.

When weeds exceed 1 to 1 1/2 inches in height or diameter at application, use a contact herbicide, such as Roundup or Gramoxone.

**Weeds Controlled:** In addition to weeds controlled by TURBO 8EC alone, the EXTENDED SPLIT-SHOT application will control Buffalobur, Cocklebur, and Sunflower.

(Broadcast Rates)			
Soil Texture*	Early Preplant Application	- FOLLOWED BY -	Preemergence Overlay Application
	TURBO 8EC (pints/acre)		TURBO 8EC (pints/acre)
Coarse* (sand, loamy sand, sandy loam)	1-1/2 - 2	- followed by -	3/4 - 1-1/4
Medium (loam, silt loam, sandy clay loam, silt, sandy clay)	1-3/4 - 2-1/4	- followed by -	1 - 1-1/2
Fine (silty clay loam*, clay loam, silty clay, clay)	2 - 2-1/2 <sup>b</sup>	- followed by -	1-1/4 - 1-3/4 <sup>b</sup>

\*Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

<sup>a</sup>On coarse-textured soils, do not use on sand soils with less than 1% organic matter. However, on coarse-textured soils with a calcareous surface area or a pH of 7.5 or higher, do not use on sand soils with less than 2% organic matter, or on loamy sand or sandy loam soils with less than 1% organic matter.

<sup>b</sup>Total not to exceed 3 3/4 pints of TURBO 8EC/acre per use season.

**POTATOES (Except California)**

TURBO 8EC is recommended for preemergence or postemergence broadcast application for control of certain broadleaf weeds and grasses in potatoes.

**Preemergence Application:** Apply with ground spray equipment (except air blast sprayers), aerial spray equipment or in sprinkler irrigation water as a preemergence broadcast application. Apply after

planting but before crop emergence, or apply after drag-off if this operation is part of the usual cultural practice.

**Postemergence Application:** Apply postemergence only in sprinkler irrigation water after drag-off but not later than 60 days of harvest. Refer to the "Chemigation" section of this label for application information.

**Weeds Controlled:** TURBO 8EC, applied to potatoes according to directions, will effectively control:

**Annual Grasses:**

Barnyardgrass  
Broadleaf signalgrass  
Crabgrass  
Crowfootgrass  
Cupgrass, Prairie  
Cupgrass, Southwestern  
Foxtails  
Goosegrass  
Junglerice  
Nutsedge, Yellow  
Panicum, Fall  
Red Rice  
Witchgrass

**Annual Broadleaves:**

Black nightshade  
Carpetweed  
Galinsoga  
Jimsonweed  
Lambsquarter  
Pigweeds, Annual  
Prickly sida  
Ragweed, Common  
Russian thistle  
Sesbania  
Shepherdspurse  
Sicklepod  
Smartweed, Pennsylvania  
Velvetleaf  
Venice mallow  
Wild Mustards

TURBO 8EC will suppress (reduce the competition of) cocklebur, common purslane, hairy nightshade, Johnsongrass (seedling), kochia, sandbur, and volunteer sorghum.

Preemergence Broadcast Rates		
Soil Texture	TURBO 8EC Pints/Acre	
	0.5 to 3% Organic Matter	Over 3% Organic Matter
Coarse* (loamy sand, sandy loam)	2 to 2-1/2	2-1/2 to 3
Medium/Fine (loam, silt loam, silt, sandy clay, sandy clay loam, silty clay, silty clay loam, clay, clay loam)	3 to 3-1/2	3-1/2 to 4

\*Do not use on sand soils.

Postemergence Broadcast Rates (For Application in Sprinkler Irrigation Water Only)	
Soil Texture	Rate TURBO 8EC Pints/Acre
Coarse* (loamy sand, sandy loam)	2
Medium/Fine (loam, silt loam, silt, sandy clay, sandy clay loam, silty clay, silty clay loam <sup>b</sup> , clay, clay loam)	2 to 2-2/3

\*Crop injury may occur on sand soils with less than 0.5% organic matter.

<sup>b</sup>Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

**SPECIAL PRECAUTIONS:** TURBO 8EC can be applied two times per year, but not more than a total of 5-1/2 pints per acre.

Do not apply within 24 hours of application of insecticides.

Postemergence applications can be made only on russetted or white skinned varieties of potatoes that are not early maturing and are not one of the sensitive varieties listed below. Crop injury may occur if TURBO 8EC is applied within 3 days of cool, wet or cloudy weather.

Preemergence and postemergence applications of TURBO 8EC to early maturing varieties and Atlantic, Bellchip, Centennial, Chipbelle, Shepody and Superior varieties may cause crop injury, delayed maturity and/or reduced yields especially under adverse weather conditions and/or when maximum label rates are used.

Do not apply to sweet potatoes or yams.

Do not harvest within 60 days of application.

Do not apply after June 30 in Idaho, Oregon, or Washington if treated land will be planted to crops other than potatoes in the Fall. Do not plant sensitive crops such as onions, lettuce, sugar beets, cole crops and cucurbits during the next growing season following application of TURBO 8EC or injury may occur.

Do not use on muck or peat soils.

**Postemergence Sequential Applications with SENCOR:** Preemergence application of TURBO 8EC may be followed by a single postemergence application of 1/2 to 1 pint/acre of SENCOR 4 or 1/3 to 2/3 pounds/acre of SENCOR DF. If TURBO 8EC is used on medium/fine soils with greater than 3% organic matter, use 1/2 pint of SENCOR 4 or 1/3 pound of SENCOR DF. For additional precautions, restrictions and limitations, refer to the appropriate section of this label and the label for SENCOR 4 or SENCOR DF.

CROP ROTATION RECOMMENDATIONS*			
Waiting Period After Application of TURBO 8EC <sup>b</sup>			
4-1/2 MONTHS	8 MONTHS	12 MONTHS	18 MONTHS
Winter Barley Winter Wheat	Corn Cotton Peas Potatoes Rice Soybeans Spring Barley Spring Wheat	Alfalfa Asparagus Forage Grasses Lentils Sainfoin Sugarcane Tomatoes Other Crops not listed (except root crops)	Onions Sugar Beets and Other Root Crops

\*Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed. Stand reductions may occur in some areas.

<sup>b</sup>Crop rotation recommendations do not include the tank mix applications of Scepter or Command plus TURBO 8EC. Refer to the label of the other product for additional restrictions.

## STORAGE AND DISPOSAL

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Non-refillable Plastic - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Returnable Refillable Sealed Container: Do not rinse container. Do not break seals. Replace the dust cover cap and return container intact to point of purchase.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking invert to prevent leakage. If the container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides above. In spill or leak incidents, keep unauthorized people away. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

Canopy is a Reg TM of E.I. DuPont deNemours and Co.  
Command is a Reg. TM of FMC Corp.  
Gramoxone is a Reg. TM of ICI Americas, Inc.  
Roundup is a Reg. TM of Monsanto Co.  
Scepter is a Reg. TM of American Cyanamid Co.  
SENCOR is a Reg. TM of Bayer AG, Germany.  
X-77 is a Reg. TM of Valent USA Corp.

Miles Inc.  
Crop Protection Products  
P.O. Box 4913, Kansas City, MO 64120-0013



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

DEC 7 1993

Richard P. Honeycutt  
MILES INC.  
AGRICULTURE DIVISION  
8400 Hawthorn Rd  
P.O. Box 4913  
Kansas City, MO 64120

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 08/13/93 in Response to PR Notice 93-7  
EPA Reg. No. 3125-366  
TURBO I EC HERBICIDE

**IMPORTANT NOTICE:** This Letter Requires You to Submit a Notification to the Office of Compliance Monitoring within 20 Days.

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 listed on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**SERIOUS ERROR(S) ON SUBMITTED LABELING:**

EPA has determined that one or more of the errors on the labeling you submitted to the Agency is categorized as "serious" as defined in PR Notice 93-11. In general, serious errors are those that may create a potential for harm to workers, handlers, other persons, or the environment; or those that prevent the achievement of the basic goals of the Worker Protection Standard (WPS) or FIFRA.

**YOU MUST NOT SELL OR DISTRIBUTE (INCLUDING RELEASE FOR SHIPMENT) ANY PRODUCT BEARING THE SUBMITTED LABELING.** Sale or distribution of any product with the incorrect labeling is a violation of FIFRA that could result in initiation of an action for civil penalties and/or cancellation of your product. This matter has been referred to the Office of Compliance Monitoring (OCM) for further action.

**YOU MUST SUBMIT A NOTIFICATION TO THE OFFICE OF COMPLIANCE MONITORING WITHIN 20 DAYS OF THE DATE OF THIS LETTER.**



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

IN ADDITION, YOU SHOULD CONTACT IMMEDIATELY THE PERSONS TO WHOM YOU SOLD OR DISTRIBUTED YOUR PRODUCT AND INFORM THEM NOT TO SELL OR DISTRIBUTE ANY PRODUCT WITH THE INCORRECT LABELING.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the 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 neither been reviewed nor 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:**

Submit the required notification. Then 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 as amended

**AND**

- WITHIN one year from date of this acceptance.

Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

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MILES INC.  
3125-366 08/16/93  
TURBO 8 EC HERBICIDE

The footwear requirement for "applicators and other handlers" in the "Personal Protective Equipment" section on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Shoes plus socks." The exact location is shown in Sections A and B on Part 1 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

**TURBO 8EC Herbicide**  
**EPA Reg. No. 3125-366**

**Section II - Explanation of Amendment (continued)**

With this application are five copies of annotated draft labeling dated 7/20/93 for TURBO 8EC herbicide that are being submitted to comply with EPA PR Notice 93-7 "Labeling Revisions Required by the Worker Protection Standard (WPS)." Proposed deletions from the label are indicated by strikeouts and proposed additions by redlining (highlighting).

I certify that the revised labeling being submitted for this product is in complete accordance with the labeling requirements of PR Notice 93-7, which reflects the requirements of EPA's labeling regulations for worker protection statements (40 CFR Part 156, Subpart K). Where exact language is specified in the PR Notice I have used that language exactly, in the location specified. I further certify that no revisions are being submitted other than those directed by PR Notice 93-7. I understand that it would be a violation of FIFRA if I or my supplemental registrants were to sell or distribute this product after April 21, 1994, without amended labeling complying with the requirements of 40 CFR Part 156, Subpart K.

The acute toxicity categories (I, II, III, or IV) for this product as entered in blocks 3 - 7 on Part I of the Product Worksheet are:

- III Acute Oral Toxicity
- III Acute Dermal Toxicity
- III Skin Irritation Potential
- III Eye Irritation Potential
- III Acute Inhalation Toxicity

Extraordinary PPE Requirements: None.

Enclosures: TURBO 8EC draft label dated 7/20/93 (5 copies)

00 00 00

# TURBO 8EC Herbicide

366-7932.BLD

U. S. LABEL

Base Pre-Reg (7932) <sup>5 7 22</sup>

Reason to Issue: Labeling revisions required  
by the Worker Protection Standard (WPS);  
EPA PR Notice 93-7.

Date of Draft: 07/20/93(H)  
Supersedes Draft Dated: 06/01/93

## TURBO 8EC Herbicide

FOR CONTROL OF CERTAIN GRASSES AND BROADLEAF WEEDS  
IN SOYBEANS AND POTATOES

**ACTIVE INGREDIENTS:**

Metolachlor, 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl)-acetamide*	70%
Metribuzin, 4-amino-6-(1,1-dimethyl-ethyl)-3-(methylthio)-1,2,4-triazin-5(4H)-one	15%
INERT INGREDIENTS.....	15%
	100%

Contains 6.55 pounds of metolachlor and 1.45 pounds of metribuzin per gallon.

EPA Reg. No. 3125-366

EPA Est. 3125-MO-1

\*U.S. Patent No. 3,937,730

Net Contents \_\_\_\_\_ Gallons

**STOP - READ THE LABEL BEFORE USE**

**KEEP OUT OF REACH OF CHILDREN**

### CAUTION

See Page 2 for Additional Precautions and Statements of Practical Treatment

### AVISO

~~PRECAUCION AL USUARIO: Si usted no puede leer o entender inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.~~

~~(TO THE USER: If you cannot read or understand English, do not use this product until the label has been fully explained to you.)~~

**MILES** 

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

DEC - 7 1993

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

3125-366

# CAUTION

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

May be harmful if swallowed, inhaled or absorbed through the skin. Causes moderate eye irritation. This product may cause allergic skin reactions. ~~Wear protective clothing (coveralls and gloves) while handling or using this product. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Wash thoroughly with soap and warm water after handling. Wash contaminated clothing with soap and hot water before reuse.~~

Keep out of reach of children.

Obtain prompt medical aid if poisoning should occur.

### ~~Personal Protective Equipment: Applicators and other handlers must wear:~~

- ~~• Coveralls over short-sleeved shirt and short pants~~
- ~~• Water-proof gloves~~

~~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: User should:~~

- ~~• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.~~

To Physician: No specific antidote is available. Treat the patient symptomatically.

**SYMPTOMS OF POISONING:** The compound does not cause any definite symptoms that would be diagnostic. Poisoning is accompanied by breathing difficulties and sedation.

## STATEMENTS OF PRACTICAL TREATMENT

If in eyes, immediately flush eyes with plenty of water for at least 15 minutes. For further treatment get medical attention. If swallowed, call a physician or poison control center. Vomiting should be induced. Administer water freely, and induce vomiting by giving one dose (1/2 oz or 15 ml) of syrup of ipecac. If vomiting does not occur within 10 to 20 minutes, administer second dose. If

syrup of ipecac is not available, induce vomiting by sticking finger down throat. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person. Professional medical assistance should be secured immediately. If on skin, wash thoroughly with soap and warm water.

## RE-ENTRY STATEMENTS

~~Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.~~

~~Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings should include these statements found under the label heading~~

~~"Precautionary Statements" and "Re-entry Statements" included on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: WARNING, area treated with TURBO SEC herbicide on (date of application). Do not enter without appropriate protective clothing until sprays have dried. If on skin, remove contaminated clothing and wash skin immediately with soap and warm water. If eyes are contaminated, wash with flowing water for at least 15 minutes. If swallowed, vomiting should be induced. (See Precautionary Statements on label).~~

## ENVIRONMENTAL HAZARDS

Do not use on other crops grown for food or forage. 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. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from areas treated. Apply this product only as specified on this label.

Do not allow sprays to drift on to adjacent desirable plants.

Observe all cautions and limitations on labeling of all products used in mixtures.

### Ground Water and Surface Water Advisories

Metolachlor has been identified in limited sampling of ground water and there is the possibility that it may leach through the soil to ground water, especially where soils are coarse and ground water is near the surface. Following application and during rainfall events that cause runoff, metolachlor may reach surface water bodies including streams, rivers, and reservoirs. Care must be taken when using this product to prevent back siphoning into wells, spills or improper disposal of excess pesticide, spray mixture or rinsates. Check valves or antisiphoning devices must be used on all mixing equipment.

Metribuzin is a chemical which can travel (seep or leach) through soil and can contaminate ground water which may be used as drinking water. Metribuzin has been found in ground water as a result of agricultural use. Users are advised not to apply metribuzin where the water table (ground water) is close to the surface and where the soils are very permeable, i.e., well drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

## 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 the agency responsible for pesticide regulation.

• Waterproof gloves

• Shoes plus socks

Do not contaminate feed or food.

**IMPORTANT:** Read these entire Directions for Use and Conditions of Sale before using TURBO 8EC herbicide.

### 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 concerning the statements on this label about personal protective equipment (PPE) and restricted entry intervals. The requirements apply only to those agricultural 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 24 hours.

Exception: If the product is not intended for soil incorporation, 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 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

**CONDITIONS OF SALE:** THE DIRECTIONS ON THIS LABEL WERE DETERMINED THROUGH RESEARCH TO BE THE DIRECTIONS FOR CORRECT USE OF THIS PRODUCT. THIS PRODUCT HAS BEEN TESTED FOR A RANGE OF WEATHER CONDITIONS SIMILAR TO THOSE WEATHER CONDITIONS THAT ARE ORDINARY AND CUSTOMARY IN THE GEOGRAPHIC AREA WHERE THE PRODUCT IS USED. 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, OR FROM FAILURE TO FOLLOW LABEL DIRECTIONS. IN ADDITION, FAILURE TO FOLLOW LABEL DIRECTIONS MAY CAUSE INJURY TO OTHER CROPS, ANIMALS, MAN, OR THE ENVIRONMENT. MILES OFFERS, AND THE BUYER ACCEPTS AND USES, THIS PRODUCT SUBJECT TO THE CONDITIONS THAT EXTRAORDINARY OR UNUSUAL WEATHER, OR FAILURE TO FOLLOW LABEL DIRECTIONS ARE BEYOND THE CONTROL OF MILES AND ARE, THEREFORE, THE RESPONSIBILITY OF THE BUYER.

**GENERAL INFORMATION**

**MIXING:** When using TURBO 8EC, make sure the sprayer is completely clean, free of rust or corrosion which occurs from Winter storage. Examine strainers and screens to be sure the sprayer is clean from previously used pesticides.

Any tank mix containing TURBO 8EC should be kept agitated and sprayed out immediately. Do not allow tank mixes to stand for prolonged periods of time.

The proper mixing procedure for TURBO 8EC alone or in tank mix combinations with other herbicides is:

(Emulsifiable Concentrates):

1. Fill the spray tank 1/4 to 1/3 full with clean water.
2. Add recommended rate of TURBO 8EC while recirculating and with agitator running.
3. Follow the triple rinse procedure described under "STORAGE AND DISPOSAL" to insure that all product is removed from the container.
4. Mix thoroughly and add clean water to fill spray tank to desired level.
5. Add the other emulsifiable concentrate herbicide to tank last and agitate thoroughly.
6. Continue agitation during application and until sprayer tank is empty.

(Other Products): If the tank mix combination is to be made using a wettable powder, liquid solution, liquid flowable, or water dispersable granules, TURBO 8EC should be added last after the other herbicide has been thoroughly dispersed.

**CHEMIGATION**

TURBO 8EC is recommended for application through sprinkler irrigation equipment to potatoes as directed on this label. Refer to the "Potatoes" section of this label for recommended rates, weeds controlled or suppressed, restrictions, and special precautions.

Apply this product only through sprinkler (including center pivot, lateral move, or solid set) irrigation systems. 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 non-uniform distribution of treated water.

**Calibration:** (Center Pivot and Self-Propelled Lateral Move Systems)

Sprinkler irrigation systems must be accurately calibrated for application of TURBO 8EC. Greater accuracy in calibration (and distribution) will be achieved by injecting a larger volume of a more dilute mixture of product and water per hour. Follow the steps below to calibrate center pivot and lateral move systems:

1. Determine number of minutes required to make one complete revolution while applying 1/4 to 3/4 inch of water per acre.
2. With the system at operating pressure determine the exact number of minutes required to inject one gallon of water.
3. Divide the time required for one revolution (step 1) by the time required to inject one gallon (step 2). This gives total gallons of product-water mixture to be added to the nurse tank.
4. Add required amount of water to nurse tank and start the agitation system. Then add sufficient TURBO 8EC at the recommended rate (See RECOMMENDED BROADCAST APPLICATIONS) to the nurse tank.

**Example:** If 20 hours (1200 minutes) were required for one revolution and if 2 minutes were required to inject one gallon, then a total of 600 gallons of product-water mixture are required ( $1200/2 = 600$ ); to treat 135 acres at 2 pints/acre, 270 pints (33.75 gallons) of TURBO 8EC are required.

If you have questions about calibration, you should contact State Extension Service Specialist, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

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.

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 backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

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.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

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 where pesticide distribution is adversely affected.

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.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Maintain continuous agitation in the injection nurse tanks during the herbicide application, sufficient to keep herbicide in suspension.

Apply specified dosage in 1/4 to 3/4 inch of water (1/4 to 1/2 inch of water on sandy soils) per acre as a continuous injection in center pivot and lateral move systems or in the last 15 to 30 minutes of set in permanent solid set sprinkler systems. Application of more than the quantity of irrigation water recommended on this label may result in decreased product performance by removing the chemical from the zone of effectiveness.

Where sprinkler distribution patterns do not overlap sufficiently unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. To insure that all lines are flushed and free of remaining pesticide, an indicator dye may be injected into the lines to mark the end of the application period.

Use a minimum of 1 part water to 1 part herbicide for injection. The use of a larger volume of water will insure greater accuracy and more uniform distribution.

**APPLICATION:** Use a standard low pressure (20 to 40 psi) herbicide boom sprayer equipped with suitable nozzles and screens no finer than 50-mesh in-nozzle and in-line strainers. Agitate thoroughly before and during application with bypass agitation.

**Ground Application:** Apply the proper rate of TURBO 8EC in a minimum of 10 to 40 gallons of spray mixture per acre broadcast. For banded application, use proportionally less TURBO 8EC per acre in a band versus a broadcast application. For band application, use 1/4 to 1 gallon of spray mix per inch of band width regardless of row spacing.

**Examples:** To treat a 15-inch band on rows 30 inches apart, use one-half of the broadcast rate of TURBO 8EC. To treat a 14-inch band on rows 42 inches apart, use one-third of the broadcast rate of TURBO 8EC.

**Aerial Application:** Where permitted, apply specified rate in a minimum of 2 to 10 gallons of spray mixture per acre. Do not apply aerially when wind speed is greater than 10 mph.

## FOR ALL APPLICATIONS OF TURBO 8EC:

Sprayer must be accurately calibrated before applying TURBO 8EC. Check sprayer during application to be sure it is working properly and delivering a uniform spray pattern. As the volume of spray mixture decreases per acre, the importance of accurate calibration and uniform application increases. Avoid over application, misapplication, and boom and spray swath overlapping that will increase spray dosage. (Crop injury may occur as a result). Avoid spray skips and gaps which allow weeds to grow in untreated soil. Do not apply when weather conditions favor spray drift and/or when sensitive or cool season crops, such as cole crops, onions, peas, or strawberries are present in adjacent fields or in areas where wheat is growing in coarse textured soils.

**SPRAYER CLEANUP:** Spray equipment must be thoroughly cleaned to remove remaining traces of herbicide that might injure other crops to be sprayed. Drain any remaining spray solution of TURBO 8EC from the spray tank and dispose of according to label disposal instructions. Rinse the spray tank and refill with water, adding a heavy-duty detergent at the rate of one cup per 20 gallons of water. Recycle this mixture through the equipment for 5 minutes and spray out. Repeat this procedure twice. Fill the spray tank with clean water, recycle for 5 minutes and spray out. Clean pump and nozzle screens thoroughly. Wash away any spray mixture from the outside of spray tank, nozzles or spray rig. All rinse water must be disposed of in compliance with local, state, and Federal guidelines.

## APPLICATION OF TURBO 8EC IN FLUID FERTILIZERS

TURBO 8EC may be applied in fluid fertilizer solutions to soybeans by following the appropriate mixing procedures and compatibility check. Compatibility checks of TURBO 8EC should be made for each batch of fluid fertilizer because of the variability of these fertilizers.

## COMPATIBILITY CHECK:

1. Premix 2 teaspoonfuls of TURBO 8EC with 8 teaspoonfuls of water (1:4 ratio) in a quart jar by adding the water first and follow with TURBO 8EC. Mix thoroughly.
2. Then pour 1 pint of fluid fertilizer into the quart jar and shake well.
3. Allow to stand for 5 minutes.

**THIS COMPATIBILITY CHECK SHOULD ONLY BE USED WHEN MIXING WITH FLUID FERTILIZERS.**

**INTERPRETATION OF RESULTS:** If the solution in the jar appears to be uniform, without signs of agglomeration, or without a separation of an oily film on top of the fertilizer, the mixture may be used. If not, repeat the compatibility check using twice the amount of water or add a compatibility agent to the water. If separation occurs and can be resuspended by shaking, then application is possible with good agitation in the spray tank.

## COMMERCIAL IMPREGNATION AND APPLICATION OF TURBO 8EC ON DRY BULK FERTILIZER

Dry bulk fertilizer may be impregnated or coated with TURBO 8EC for application to soybeans. All recommendations, cautions, and special precautions on the label must be followed along with State regulations relating to dry bulk fertilizer blending, impregnating and labeling.

**IMPREGNATION:** To impregnate, use a system consisting of a belt, conveyor, or closed drum which is used for dry bulk fertilizer blending. Any commonly used fertilizer can be impregnated with TURBO 8EC except ammonium nitrate, or fertilizers containing ammonium nitrate, potassium nitrate, or sodium nitrate. Do not use on powder limestone.

Apply using a minimum of 200 pounds dry bulk fertilizer per acre and up to a maximum of 450 pounds per acre. To impregnate or coat the dry bulk fertilizer with TURBO 8EC, the delivery nozzles must be directed to deliver a fine spray toward the fertilizer for thorough coverage while avoiding spray contact with mixing equipment. Uniform impregnation of TURBO 8EC to dry bulk fertilizer will vary and if the absorptivity is not adequate, an absorptive powder may be added to produce a dry free-flowing mixture. Micro-Cel E (Johns-Manville Product Corporation) is the recommended absorbent powder.

TURBO 8EC should be pre-mixed with water to form a sprayable mixture. Apply immediately after impregnation unless experience has shown that impregnated fertilizer can be stored without becoming lumpy and difficult to spread.

**RATES:** Select the recommended rate of TURBO 8EC per acre from the appropriate section of this label and refer to the formula below to determine the amount of TURBO 8EC which is to be impregnated on a ton of dry bulk fertilizer based on the amount of fertilizer which will be distributed on one acre.

$$\begin{array}{rcccl} \text{Pints TURBO} & & 2000 & & \text{Pints TURBO} \\ \text{8EC Per Acre} & \times & \text{lbs. Fertilizer} & = & \text{8EC per Ton} \\ & & \text{Per Acre} & & \text{of Fertilizer} \end{array}$$

**APPLICATION:** Uniform application is essential for satisfactory weed control. Accurate calibration of fertilizer application equipment is essential for uniform distribution to the soil surface. The recommended method of application is to apply 1/2 the recommended rate and overlap 50 percent or to double apply by splitting the middles to obtain the best distribution pattern.

If fertilizer materials are excessively dusty, use diesel oil or other suitable additive to reduce dust prior to impregnation as dusty fertilizer will result in poor distribution during application. Crop injury and/or poor weed control may occur where the impregnated fertilizer is not uniformly applied.

## SOYBEANS (Except California)

TURBO 8EC is recommended for preplant or shallow incorporated, preemergence, SPLIT SHOT and EXTENDED SPLIT SHOT application to control certain weeds in soybeans. All applications where permitted can be applied with ground or aerial spray equipment.

**Activation:** A minimum amount of soil moisture is required to activate TURBO 8EC. In areas of low rainfall, preemergence applications to dry soil should be followed with light irrigation of 1/4 acre inch of water. Do not apply heavy irrigation immediately after application. As with many surface-applied herbicides, weed control and crop tolerance may vary with rainfall and/or soil texture.

**Grazing and Feeding Treated Vines:** Treated vines may be grazed or fed to livestock 40 days after the application of TURBO 8EC.

**Rate Ranges:** Where a rate range is shown, use a lower rate on soils that are coarse-textured or low in organic matter. Use higher rate on soils that are relatively fine-textured or high in organic matter.

**Replanting:** If replanting is necessary in fields previously treated with TURBO 8EC as directed on this label, the field may be replanted to soybeans. However, a minimum of tillage is recommended. Do not apply a second treatment as injury to soybeans may occur.

**SPECIAL PRECAUTIONS (SOYBEANS):** Injury to soybeans may occur when TURBO 8EC is used under the following conditions:

1. When soils have a calcareous surface area or a pH of 7.5 or higher.
2. Due to the sensitivity of certain soybean varieties, TURBO 8EC is not recommended for use on Altona, AP 55, AP 71, Asgrow 6520, Burlison, Coker 102, Coker 156, Dassel, GL 3202, Govan, Maple Amber, NB 3665, NKS 1884, Paloma 350, Portage, Regal, Semmes, Terra-Vig 505, Terra-Vig 606, Tracy, Vansoy, and Vinton 81. Consult your Miles representative or your seed supplier for information on the tolerance of newly released soybean varieties prior to use of TURBO 8EC.
3. When applied in conjunction with soil-applied organic phosphate pesticides.
4. Over application or boom overlapping may result in stand loss and soil residues.
5. Uneven application or improper incorporation can decrease the level of weed control and/or increase the level of injury.
6. When applied to any soil with less than 1/2% organic matter.

7. Soil incorporation deeper than recommended.
8. When sprayers are not calibrated accurately.
9. When heavy rains occur soon after application, especially in poorly drained areas where water may stand for several days.
10. When soybeans are planted less than 1 1/2" deep, particularly when TURBO 8EC is applied preemergence.
11. Where atrazine carryover is present.
12. When using poor quality soybean seed.

#### TURBO 8EC ALONE

**Preplant Incorporated Application:** Incorporate TURBO 8EC into the top 2 inches of soil within 14 days before planting using a disk, field cultivator, rolling cultivator, or similar implement. Except when shallow mixing, two incorporation passes are recommended. Apply TURBO 8EC preplant incorporated if furrow irrigation is used or when a period of dry weather after application is expected. If soybeans are planted on beds, apply and incorporate the tank mixture after bed formation.

**Preemergence Application:** Dry weather following preemergence application of TURBO 8EC may reduce effectiveness. If weeds develop, cultivate uniformly with shallow tilling equipment such as a rotary hoe that will not damage soybeans.

For information on applying product in fluid or dry fertilizer refer to "Application of TURBO 8EC in Fluid Fertilizers" or "Commercial Impregnation and Application of TURBO 8EC on Dry Bulk Fertilizer" on this label.

**Weeds Controlled:** TURBO 8EC, when applied as directed, will control the following weeds.

#### Annual Grasses:

Barnyardgrass  
Bluegrass  
Broadleaf Signalgrass  
Crabgrass  
Crowfootgrass  
Cupgrass, Prairie  
Cupgrass, Southwestern  
Foxtails  
Goosegrass  
Junglerice  
Panicum, Fall  
Red Rice  
Witchgrass

#### Annual Broadleaves:

Black Nightshade  
Bristly Starbur  
Carpetweed  
Copperleaf, Hophornbeam  
Florida Beggarweed  
Florida Pusley  
Galinsoga  
Jimsonweed  
Knotweed  
Kochia  
Lambsquarter  
Pigweeds  
Prickly sida/Teaweed

Purslane  
Ragweed, Common  
Redweed  
Russian Thistle  
Sesbania  
Shepherdspurse  
Sicklepod  
Smartweeds  
Spotted spurge  
Spurred anoda  
Velvetleaf  
Venice Mallow  
Wild mustards

TURBO 8EC will provide suppression or erratic control (ranging from poor to excellent) of cocklebur, seedling Johnsongrass, hairy nightshade, yellow nutsedge, Texas panicum, sandbur, shattercane, volunteer sorghum and sunflower.

TURBO 8EC Pints/Acre (Broadcast Rates)		
SOIL TEXTURE	0.5 to 3% Organic Matter	Over 3% <sup>a</sup> Organic Matter
Coarse <sup>a</sup> (Loamy sand, sandy loam)	1-1/2 <sup>a</sup>	1-3/4 - 2
Medium (Loam, silt loam, silt, sandy clay, sandy clay loam)	2 - 2-1/4	2-1/4 - 2-3/4
Fine (Silty clay, silty clay loam <sup>a</sup> , clay, clay loam)	2-3/4	2-3/4 - 3-1/2

<sup>a</sup>Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

<sup>a</sup>Do not use on sand soils. On coarse-textured soils, do not use on loamy sand soils with less than 2% organic matter.

<sup>a</sup>For preplant incorporated application, use the lower rate range.

<sup>a</sup>For Southern and Southeastern states, see section below "IN COARSE (LIGHT) SOILS ONLY".

**IN COARSE (LIGHT) SOILS ONLY**

(Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, Missouri, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia.)

**TURBO 8EC** is recommended for use as a preplant incorporated and preemergence application in coarse-textured, low organic matter soils in the states listed above for the control of certain weeds in soybeans. Refer to the appropriate sections of this label for specific directions on use, recommendations and restrictions.

**MIXING:** Refer to the "General Information" section in the front of this label.

**APPLICATION:** For specific application information, refer to the "General Information" section in the front of this label.

**Weeds Controlled:** Refer to the "TURBO 8EC Alone" section of this label for a complete list of weeds controlled.

TURBO 8EC Preemergence Application (Broadcast Rates)		
Soil Texture	Organic Matter	TURBO 8EC (pints/acre)
Coarse Soils (Sand*, loamy sand, sandy loam)	0.5% or above	1-1/2 - 2-1/2 <sup>b</sup>

\*Not recommended for use on sand with less than 1% organic matter.

<sup>b</sup>Use the higher rate under heavy weed pressures and/or on soils higher in organic matter. Soybean varieties with a high level of metribuzin tolerance are recommended when using the high rate. For maximum control of sicklepod, use a preemergence application.

**SPECIAL PRECAUTIONS:** For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this label.

**TURBO 8EC PLUS OVERLAY APPLICATION OF SENCOR HERBICIDE**

**TURBO 8EC** applied preplant or shallow incorporated followed by an overlay application of **SENCOR** herbicide will control more broadleaf and grass weeds in soybeans than when either herbicide is used alone.

Refer to the **SENCOR** herbicide label and to appropriate sections of this label, for directions for soil preparation, herbicide application, incorporation techniques, and for additional directions on rates, weeds species controlled, and special precautions.

**Application:** Apply **TURBO 8EC** as a preplant or shallow incorporated application up to 14 days before planting at rates listed below. This is followed by **SENCOR** herbicide alone at the indicated rates as a preemergence overlay application after planting but prior to soybean emergence.

On medium and fine textured soils with greater than 2% organic matter, a rate range is recommended for the preemergence overlay application of **SENCOR** herbicide. The higher rate should be used (a) in fields with a history of severe broadleaf weed pressure, (b) when the time between preplant incorporated tank mix and preemergence overlay applications approaches the maximum 14 days as stated above, and/or (c) when the organic matter content of the soil is at the upper end of the indicated range.

**Weeds Controlled:** In addition to the weeds controlled by **TURBO 8EC** alone, **TURBO 8EC** herbicide with **SENCOR** herbicide will control Buffalobur, Cocklebur, and Sunflower.

TURBO 8EC Plus SENCOR 4 Overlay Application (Broadcast Rates)					
Soil Texture	Preplant Incorporated Application	FOLLOWED BY	Preemergence Overlay Application		
	TURBO 8EC (Pints/Acre)		SENCOR 4 (pints/acre)		
			ORGANIC MATTER		
			0.5 to 2%	2 to 4%	Over 4%
Coarse* (Sand, loamy sand, sandy loam)	1-1/2	- followed by -	1/4	1/4	1/4 - 1/2
Medium (Loam, silt loam, sandy clay loam, silt, sandy clay)	2	- followed by -	1/4	1/4 - 1/2	1/2 - 3/4
Fine (Silty clay loam*, clay loam, silty clay, clay)	2-3/4	- followed by -	1/4	1/4 - 1/2	1/2 - 3/4

TURBO 8EC Plus SENCOR DF Overlay Application (Broadcast Rates)					
Soil Texture	Preplant Incorporated Application	FOLLOWED BY	Preemergence Overlay Application		
	TURBO 8EC (Pints/Acre)		SENCOR DF (lbs/acre)		
			ORGANIC MATTER		
			0.5 to 2%	2 to 4%	Over 4%
Coarse* (Sand, loamy sand, sandy loam)	1-1/2	- followed by -	1/6	1/6	1/6 - 1/3
Medium (Loam, silt loam, sandy clay loam, silt, sandy clay)	2	- followed by -	1/6	1/6 - 1/3	1/3 - 1/2
Fine (Silty clay loam*, clay loam, silty clay, clay)	2-3/4	- followed by -	1/6	1/6 - 1/3	1/3 - 1/2

\*Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

\*Do not use on coarse-textured soil with less than 1% organic matter, a calcareous surface area or a pH of 7.5 or higher.

**SPECIAL PRECAUTIONS:** For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this label and the SENCOR herbicide label.

### SPLIT-SHOT APPLICATION

TURBO 8EC applied preplant or shallow incorporated followed by a preemergence application of TURBO 8EC will control more broadleaf and grass weeds in soybeans than when either application is used alone.

Refer to the appropriate sections of this label for directions for soil preparation, herbicide application, incorporation techniques, and for additional directions on rates, weeds species controlled, and special precautions.

**Applications:** Apply TURBO 8EC as a preplant or shallow incorporated application up to 14 days before planting at rates listed below. This is followed by TURBO 8EC at the

indicated rates as a preemergence overlay application after planting but prior to soybean emergence.

Where a rate range is recommended for TURBO 8EC, the higher rate should be used (a) in fields with a history of severe broadleaf weed pressure, (b) when the time between preplant incorporated and preemergence overlay applications approaches the maximum 14 days as stated above, and/or (c) when the organic matter content of the soil is over 3 percent.

**Weeds Controlled:** In addition to the weeds controlled by TURBO 8EC alone, SPLIT-SHOT application of TURBO 8EC will control Buffalobur, Cocklebur, and Sunflower.

SPLIT-SHOT APPLICATION (Broadcast Rates)			
Soil Texture	Preplant Incorporated Application	FOLLOWED BY	Preemergence Overlay Application
	TURBO 8EC (Pints/Acre)		TURBO 8EC (pints/acre)
Coarse* (Sand, loamy sand, sandy loam)	1 - 1-1/2	- followed by -	3/4 - 1
Medium (Loam, silt loam, sandy clay loam, silt, sandy clay)	1-3/4 - 2	- followed by -	3/4 - 1
Fine (Silty clay loam*, clay loam, silty clay, clay)	2 - 2-1/2 <sup>b</sup>	- followed by -	3/4 - 1 <sup>b</sup>

\*Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

<sup>a</sup>Do not use on coarse-textured soil with less than 1% organic matter, a calcareous surface area or a pH of 7.5 or higher.

<sup>b</sup>Total not to exceed 3 pints/acre on soils with organic matter less than 3 percent.

**SPECIAL PRECAUTIONS:** For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this label.

### TURBO 8EC PLUS SCEPTER TANK MIX APPLICATION

TURBO 8EC may be applied with Scepter herbicide (1.5 lb/gal. liquid or 70 DG) as a preplant incorporated, preemergence broadcast or band application, for the control of certain broadleaf weeds and grasses in soybeans. Consult the Scepter label for specific directions on use, recommendations, restrictions and any additional weeds not specified on this label.

**Mixing:** Refer to the "General Information" section in the front of this label.

**Application:** For specific application information, refer to the "General Information" section in the front of this label.

**Weeds Controlled:** In addition to weeds controlled by TURBO 8EC alone, TURBO 8EC plus Scepter will control the following annual broadleaf weeds:

Buffalobur  
Morningglory, smallflower  
Cocklebur  
Sicklepod  
Morningglory, pitted  
Sunflower

TURBO 8EC plus Scepter will provide suppression (reduce the competition) of ivyleaf and tall morningglory, and giant ragweed.

TURBO 8EC plus Scepter Application (Broadcast Rates)				
Soil Texture	TURBO 8EC* (pints/acre)	Scepter 1.5 AS* (pints/acre)	OR	Scepter 70 DG* (ounce/acre)
Coarse (loamy sand or sandy loam)	1-1/2 <sup>c</sup>	1/3 - 1/2		1.4 - 2.1
Medium (loam, silt loam, silt, sandy clay, sandy clay loam)	1-3/4 - 2-1/4	1/3 - 1/2		1.4 - 2.1
Fine (silty clay, silty clay loam*, clay, clay loam)	2-1/4 - 2-3/4	1/3 - 1/2		1.4 - 2.1

\*Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

\*Higher rate is recommended on soils with organic matter greater than 3%.

\*For preemergence application, use the higher rate. For maximum control of moderate to heavy infestations of cocklebur, giant ragweed and sicklepod, use the higher rate and a preplant incorporated application.

\*For Southern and Southeastern States in coarse soils, see the "IN COARSE (LIGHT) SOILS ONLY" section of this label for TURBO 8EC rates.

**Special Precautions:** For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this and the Scepter label.

Do not use vines treated with Scepter for feed or forage.

### SEQUENTIAL APPLICATION OF SCEPTER FOLLOWING TURBO

If needed, application of TURBO 8EC alone or in a registered tank mix according to directions on this label, may be followed by an early postemergence application of Scepter herbicide for control of cocklebur. Apply 1/6 to 1/3 pint of Scepter (0.7 to 1.4 ounces of Scepter 70 DG) in a minimum of 20 gallons of water per acre. Use 1/6 pint of Scepter (0.7 ounce of Scepter 70 DG) if cocklebur are less than 3 inches tall or have fewer than 3 leaves and are actively growing. For cocklebur less than 6 inches tall and actively growing use 1/3 pint (1.4 ounces of Scepter 70 DG) per acre. Do not use Scepter when soybeans or cocklebur have been subjected to stress conditions such as temperature or moisture extremes. Do not exceed a total of 2/3 pint of Scepter (2.8 ounces of Scepter 70 DG) per acre in one season. Wait at least 10 days after application of Scepter before cultivating.

When preparing the spray mixture with Scepter, add 2 pints of nonionic surfactant approved for use on growing crops and containing at least 80% active ingredient per 100 gallons of mixture. Apply crop oil concentrate (COC) at the rate specified on the COC label.

Use Scepter only in the states where it is registered as listed on the product label.

Apply Scepter at least 90 days before harvest of soybeans. Do not graze or feed soybean forage, hay, or straw to livestock.

Refer to the Scepter label for additional cautions and precautions, directions, limitations, and information on environmental hazards and planting of rotational crops.

## TURBO PLUS CANOPY® TANK-MIX

**Weeds Controlled:** A tank-mix combination of TURBO 8EC plus Canopy (75 DG) herbicide is recommended for control of the following weeds in soybeans:

### Annual Grasses

Barnyardgrass  
Bluegrass  
Broadleaf signalgrass  
Browntop millet  
Crabgrass  
Crowfootgrass  
Foxtails  
Goosegrass  
Johnsongrass (seedling)  
Junglerice  
Panicum, Fall  
Panicum, Texas  
Sandbur  
Sprangletop  
Stinkgrass

### Annual Broadleaves

Bristly starbur  
Carpetweed  
Cocklebur  
Copperleaf, Hophornbeam  
Florida beggarweed  
Florida pusley  
Galinsoga  
Jimsonweed  
Knotweed  
Kochia  
Lambsquarters  
Pigweed  
Prickly Sida/Teaweed  
Purslane  
Ragweed, Common  
Redweed  
Russian thistle  
Sesbania  
Shepherdspurse  
Smartweed  
Spurred anoda  
Velvetleaf  
Venice mallow  
Wild mustard

Apply this tank-mix combination broadcast preemergence or broadcast preplant incorporated. Refer to the table below for the recommended rates of each product to be used in the tank-mix combination.

TURBO 8EC plus Canopy (75 DG) Tank-Mix Preemergence or Preplant Incorporated Application (Broadcast Rates)		
Soil Texture <sup>1</sup>	TURBO 8EC <sup>2</sup> (pints/acre)	CANOPY (75 DG) (ounces/acre)
Coarse (loamy sand or sandy loam)	1-1/2 <sup>3</sup>	3
Medium (loam, silt loam, silt, sandy clay, sandy clay loam)	1-3/4 - 2-1/4	3
Fine (silty clay, silty clay loam*, clay, clay loam)	2-1/4 - 2-3/4	3 - 4

\*Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

<sup>1</sup>Do not use on soils with pH greater than 7.0.

<sup>2</sup>Use higher rate on soils with more than 3% organic matter.

<sup>3</sup>For Southern and Southeastern States in coarse soils, see "IN COARSE (LIGHT) SOILS ONLY" section of this label for rates of TURBO 8EC.

Refer to the "General Information" section of this label for mixing and application directions.

**IMPORTANT:** If weeds escape in fields treated with this tank-mix combination, postemergence application of a registered and recommended herbicide will be needed for control.

**SPECIAL PRECAUTIONS:** Do not use treated vines for feed or forage.

For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this label and the label for Canopy 75 DF.

## TURBO 8EC PLUS COMMAND® 4EC TANK MIX APPLICATION

TURBO 8EC may be applied with Command 4EC as a preplant or shallow incorporated broadcast application for the control of certain broadleaf weeds and grasses in soybeans. Consult the Command 4EC label for specific directions for use, recommendations and restrictions not specified on this label.

**Mixing:** Refer to the "General Information" section in the front of this label.

**Application:** For specific application information, refer to the "General Information" section in the front of this label.

**Weeds Controlled:** In addition to weeds controlled by TURBO 8EC alone, TURBO 8EC plus Command 4EC will provide improved control of heavy infestations of velvetleaf, jimsonweed and common ragweed.

TURBO 8EC plus Command 4 EC Application (Broadcast Rates)		
Soil Texture	TURBO 8EC* (Pints/Acre)	Command 4 EC (Pints/Acre)
Coarse (loamy sand or sandy loam)	1-1/2 - 1-3/4 <sup>b</sup>	1/2 - 3/4
Medium (loam, silt loam, silt, sandy clay, sandy clay loam)	1-3/4 - 2-1/4	1/2 - 3/4
Fine (silty clay, silty clay loam*, clay, clay loam)	2-1/4 - 2-3/4	1/2 - 3/4

\*Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

<sup>b</sup>Higher rate is recommended on soils with organic matter greater than 3%.

<sup>c</sup>For Southern and Southeastern States in coarse soils, see the IN COARSE (LIGHT) SOILS ONLY Section of this label for TURBO 8EC rates.

**Special Precautions:** Do not plant wheat, oats, barley, rye or alfalfa in the fall or following spring after application as crop injury may occur.

Do not use vines treated with Command 4EC for feed or forage.

For additional precautions, restrictions, limitations and sprayer clean-up information, refer to the appropriate sections of this label and the Command 4EC label.

Do not apply where weather conditions favor drift.

## TURBO 8EC IN REDUCED-TILLAGE OR NO-TILL SYSTEMS

**Application:** TURBO 8EC may be applied in combination with Gramoxone® Extra, Roundup® or 2,4-D low volatile ester for the control of annual grasses and broadleaf weeds and the suppression of emerged perennial weeds where soybeans are directly seeded into a stale seedbed, cover crop, or in previous crop residues.

**Special Precautions:** Poor weed control and/or crop injury may result if directions are not followed. Do not use a rib-type press wheel on your no-till planter or crop injury may result. For additional precautions, restrictions, limitations, and sprayer clean-up information, refer to the appropriate sections of the Gramoxone Extra, Roundup, 2,4-D low volatile ester and this label.

**TURBO 8EC plus Gramoxone Application:** Apply 0.8 to 1.6 pints of Gramoxone Extra with TURBO 8EC at the rates listed below as a preemergence broadcast ground spray. Use the higher rate of Gramoxone for weeds 4 to 6 inches tall. Soybeans exposed at the time of application will be killed. Apply in 20 to 60 gallons spray mix per acre. Use the higher volume in fields with heavy weed infestation or with large amounts of previous crop residues. When a surfactant is needed,

add Ortho X-77® Spreader or similar non-ionic spreader at 8 fl. ounces per 100 gallons of diluted spray. Refer to the Gramoxone Extra label for rates, directions, limitations and precautions.

**TURBO 8EC plus Roundup Application:** Apply 1 to 1.5 quarts of Roundup with TURBO 8EC at the rates listed below as a preemergence broadcast ground spray. Use the higher rates of Roundup for weeds greater than 6 inches tall. Refer to the Roundup label for additional rate information, directions, limitations and precautions.

**TURBO 8EC plus 2,4-D low volatile ester Application:** Apply 1.0 lb active ingredient (ai) per acre of 2,4-D low volatile ester with TURBO 8EC at the rates listed below as a early preplant surface application. Application is recommended 30 days prior to planting. Refer to the 2,4-D low volatile ester label for additional rate information, directions, limitations and precautions.

**Weeds Controlled:** TURBO 8EC herbicide combinations will control the weeds listed in the TURBO 8EC alone section. Refer to the Gramoxone, Roundup or 2,4-D low volatile ester labels for additional weeds controlled.

NO-TILL OR REDUCED-TILL APPLICATION (Broadcast Rates)	
Soil Texture	TURBO 8EC Pints/Acre*
Coarse* (loamy sand, sandy loam)	1-1/2 - 2-1/4
Medium (loam, silt loam, silt, sandy clay, sandy clay loam)	2-1/4 - 3
Fine (silty clay, silty clay loam*, clay, clay loam)	3 - 3-3/4

\*Use low rate range for low trash level or soils with less than 3% organic matter. Use the higher rate range for high trash level or soils with greater than 3% organic matter.

\*Do not use on sand soils. On coarse-textured soils, do not use on loamy sand soils with less than 2% organic matter.

\*Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

## EXTENDED SPLIT-SHOT APPLICATION

An early preplant (surface-applied or shallow incorporated) application of TURBO 8EC, followed by a preemergence surface application of TURBO 8EC after planting but prior to soybean emergence, will provide more consistent control of broadleaf and grass weeds than a single application.

An Extended SPLIT-SHOT application will decrease the need for tillage and/or contact herbicides for the control of existing vegetation prior to planting, while providing residual control of weeds after planting.

**Application:** An early preplant application may be made 15 to 30 days prior to planting soybeans. Follow this application with a preemergence overlay application after planting but before crop emergence. Follow directions on this label for SPLIT-SHOT applications from 0 to 14 days before planting.

Where a rate range is recommended, the higher rates should be used (a) in fields with a history of severe weed pressure, (b) when the time between early preplant and preemergence overlay applications approaches the maximum 30 days, (c) when the organic matter content of the soil is over 3 percent, and/or (d) when heavy crop residues are present on the soil surface.

When weeds exceed 1 to 1 1/2 inches in height or diameter at application, use a contact herbicide, such as Roundup or Gramoxone.

**Weeds Controlled:** In addition to weeds controlled by TURBO 8EC alone, the EXTENDED SPLIT-SHOT application will control Buffalograss, Cocklebur, and Sunflower.

(Broadcast Rates)			
Soil Texture*	Early Preplant Application	- FOLLOWED BY -	Preemergence Overlay Application
	TURBO 8EC (pints/acre)		TURBO 8EC (pints/acre)
Coarse* (sand, loamy sand, sandy loam)	1-1/2 - 2	- followed by -	3/4 - 1-1/4
Medium (loam, silt loam, sandy clay loam, silt, sandy clay)	1-3/4 - 2-1/4	- followed by -	1 - 1-1/2
Fine (silty clay loam*, clay loam, silty clay, clay)	2 - 2-1/2*	- followed by -	1-1/4 - 1-3/4*

\*Silty clay loam soils are transitional soils and may be classified as medium-textured soils in some regions of the U.S.

\*On coarse-textured soils, do not use on sand soils with less than 1% organic matter. However, on coarse-textured soils with a calcareous surface area or a pH of 7.5 or higher, do not use on sand soils with less than 2% organic matter, or on loamy sand or sandy loam soils with less than 1% organic matter.

\*Total not to exceed 3 3/4 pints of TURBO 8EC/acre per use season.

## POTATOES (Except California)

**TURBO 8EC** is recommended for preemergence or postemergence broadcast application for control of certain broadleaf weeds and grasses in potatoes.

**Preemergence Application:** Apply with ground spray equipment (except air blast sprayers), aerial spray equipment or in sprinkler irrigation water as a preemergence broadcast application. Apply after

planting but before crop emergence, or apply after drag-off if this operation is part of the usual cultural practice.

**Postemergence Application:** Apply postemergence only in sprinkler irrigation water after drag-off but not later than 60 days of harvest. Refer to the "Chemigation" section of this label for application information.

**Weeds Controlled:** **TURBO 8EC**, applied to potatoes according to directions, will effectively control:

### Annual Grasses:

Barnyardgrass  
Broadleaf signalgrass  
Crabgrass  
Crowfootgrass  
Cupgrass, Prairie  
Cupgrass, Southwestern  
Foxtails  
Goosegrass  
Junglerice  
Nutsedge, Yellow  
Panicum, Fall  
Red Rice  
Witchgrass

### Annual Broadleaves:

Black nightshade  
Carpetweed  
Galinsoga  
Jimsonweed  
Lambsquarter  
Pigweeds, Annual  
Prickly sida  
Ragweed, Common  
Russian thistle  
Sesbania  
Shepherdspurse  
Sicklepod  
Smartweed, Pennsylvania  
Velvetleaf  
Venice mallow  
Wild Mustards

**TURBO 8EC** will suppress (reduce the competition of) cocklebur, common purslane, hairy nightshade, Johnsongrass (seedling), kochia, sandbur, and volunteer sorghum.

Preemergence Broadcast Rates		
Soil Texture	TURBO 8EC Pints/Acre	
	0.5 to 3% Organic Matter	Over 3% Organic Matter
Coarse* (loamy sand, sandy loam)	2 to 2-1/2	2-1/2 to 3
Medium/Fine (loam, silt loam, silt, sandy clay, sandy clay loam, silty clay, silty clay loam, clay, clay loam)	3 to 3-1/2	3-1/2 to 4

\*Do not use on sand soils.

Postemergence Broadcast Rates (For Application in Sprinkler Irrigation Water Only)	
Soil Texture	Rate TURBO 8EC Pints/Acre
Coarse* (loamy sand, sandy loam)	2
Medium/Fine (loam, silt loam, silt, sandy clay, sandy clay loam, silty clay, silty clay loam <sup>b</sup> , clay, clay loam)	2 to 2-2/3

\*Crop injury may occur on sand soils with less than 0.5% organic matter.

<sup>b</sup>Silty clay loam soils are transitional soils and may be classified as medium textured soils in some regions of the U.S.

**SPECIAL PRECAUTIONS:** TURBO 8EC can be applied two times per year, but not more than a total of 5-1/2 pints per acre.

Do not apply within 24 hours of application of insecticides.

Postemergence applications can be made only on russetted or white skinned varieties of potatoes that are not early maturing and are not one of the sensitive varieties listed below. Crop injury may occur if TURBO 8EC is applied within 3 days of cool, wet or cloudy weather.

Preemergence and postemergence applications of TURBO 8EC to early maturing varieties and Atlantic, Bellchip, Centennial, Chipbelle, Shepody and Superior varieties may cause crop injury, delayed maturity and/or reduced yields especially under adverse weather conditions and/or when maximum label rates are used.

Do not apply to sweet potatoes or yams.

Do not harvest within 60 days of application.

Do not apply after June 30 in Idaho, Oregon, or Washington if treated land will be planted to crops other than potatoes in the Fall. Do not plant sensitive crops such as onions, lettuce, sugar beets, cole crops and cucurbits during the next growing season following application of TURBO 8EC or injury may occur.

Do not use on muck or peat soils.

**Postemergence Sequential Applications with SENCOR:** Preemergence application of TURBO 8EC may be followed by a single postemergence application of 1/2 to 1 pint/acre of SENCOR 4 or 1/3 to 2/3 pounds/acre of SENCOR DF. If TURBO 8EC is used on medium/fine soils with greater than 3% organic matter, use 1/2 pint of SENCOR 4 or 1/3 pound of SENCOR DF. For additional precautions, restrictions and limitations, refer to the appropriate section of this label and the label for SENCOR 4 or SENCOR DF.

CROP ROTATION RECOMMENDATIONS*			
Waiting Period After Application of TURBO 8EC <sup>b</sup>			
4-1/2 MONTHS	8 MONTHS	12 MONTHS	18 MONTHS
Winter Barley Winter Wheat	Corn Cotton Peas Potatoes Rice Soybeans Spring Barley Spring Wheat	Alfalfa Asparagus Forage Grasses Lentils Sainfoin Sugarcane Tomatoes Other Crops not listed (except root crops)	Onions Sugar Beets and Other Root Crops

\*Cover crops for soil building or erosion control may be planted any time, but do not graze or harvest for food or feed. Stand reductions may occur in some areas.

<sup>b</sup>Crop rotation recommendations do not include the tank mix applications of Scepter or Command plus TURBO 8EC. Refer to the label of the other product for additional restrictions.

## STORAGE AND DISPOSAL

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or disposal.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Non-refillable Plastic - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke. Returnable Refillable Sealed Container: Do not rinse container. Do not break seals. Replace the dust cover cap and return container intact to point of purchase.

Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking invert to prevent leakage. If the container is leaking or material spilled for any reason or cause, carefully dam up spilled material to prevent runoff. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides above. In spill or leak incidents, keep unauthorized people away. You may contact the Miles Emergency Response Team for decontamination procedures or any other assistance that may be necessary. The Miles Kansas City Emergency Response Telephone No. is 816-242-2582, or contact Chemtrec at 800-424-9300.

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Command is a Reg. TM of FMC Corp.  
Gramoxone is a Reg. TM of ICI Americas, Inc.  
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Scepter is a Reg. TM of American Cyanamid Co.  
SENCOR is a Reg. TM of Bayer AG, Germany.  
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