PM 21 57538-13 Page 1 of 9

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

MAR 4 [illegible]

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Linda C. Watson
Agent for: STOLLER ENTERPRISES, INC.
3703 Sedgefield Drive
Valdosta, GA 31602

Subject: Label Amendment Submission of 09/15/93 in Response to PR Notice 93-7
EPA Reg. No. 57538-13
STIMULATE YEILD ENHANCER

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. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

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

WHAT YOU NEED TO DO NEXT:

Send to EPA one (1) copy of the final printed labeling:

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

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 printed 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

STIMULATE

Yield Enhancer

Active Ingredients:

Cytokinin (as kinetin)	0.009%
Gibberellic acid	0.005%
Indole-3-butyric acid	0.005%
Inert Ingredients:	99.981%
Total:	100.000%

Read label before using.

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF IN EYES: Wash eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

See additional "Precautionary Statements" on left panel.

EPA Reg. No. 57538-13

EPA Est. No. 57538-FL-6

Manufactured by:
Stoller Enterprises, Inc.
8582 Katy Freeway, Suite 110
Houston, Texas 77024

NET CONTENTS: One Quart

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAR 4 1994

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 57538-13

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if inhaled. Avoid breathing vapor or spray mist. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves and shoes plus socks.

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.

ENGINEERING CONTROLS STATEMENT

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

USER SAFETY RECOMMENDATIONS

Users should:

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

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Do not apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwater.

PHYSICAL OR CHEMICAL HAZARDS

Store out of direct sunlight. Protect from freezing.

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.

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.

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

APPLICATION AND CALIBRATION TECHNIQUES FOR SPRINKLER IRRIGATION

Apply this product only through the following types of irrigation systems. Do not apply this product through any other types of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Experiment Station specialists, 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.

A. Center Pivot, Traveler, Big Gun, Motorized Lateral Move, End Tow, and Side (Wheel) Roll Irrigation Equipment: Operate system and injection equipment at normal pressures recommended by the manufacturer of injection equipment used. Fill tank of injection equipment with water. Operate system for one complete circle for center pivot or one complete run for the other recommended equipment, measuring time required, amount of water injected, and acreage contained in circle or run. Mix recommended amount of Stimulate for acreage to be covered into same amount of water used during calibration and inject into system continuously for one revolution or run, but continue to operate irrigation system until Stimulate has been cleared from last sprinkler head. Spray mixture in the chemical supply tank must be agitated at all times, otherwise settling and uneven application may occur.

B. Solid Set and Hand Move Irrigation Equipment: Determine acreage covered by sprinkler. Fill tank of injection equipment with water and adjust flow to use contents over a thirty to forty-five minute period. Mix desired amount of Stimulate for acreage to be covered into quantity of water used during calibration and operate entire system at normal pressures recommended by the manufacturer of injection equipment used for amount of time established during calibration. Provide constant mechanical agitation in the mix tank to insure that Stimulate will remain in suspension during the injection cycle. Stimulate can be injected at the beginning or end of the irrigation cycle or as a separate application. Stop injection equipment after treatment is completed and continue to operate irrigation system until Stimulate is cleared from last sprinkler head.

SAFETY DEVICES

(1) The systems designated above 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. (2) All pesticide injection pipelines must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. (3) the pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated value located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. (4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

(5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. (6) Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. (7) Do not apply when wind speed favors drift beyond the area intended for treatment.

SYSTEMS CONNECTED TO PUBLIC WATER SOURCES

Public water system means a system for the provision to the public of piped water for human consumption is such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As

an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of fill pipe. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in ones where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

For additional instructions on safety precautions, refer to statements (2),(3), (4),(6), and (7) in the section on SAFETY DEVICES.

STORAGE AND DISPOSAL

STORAGE

Do not store in direct sunlight. Avoid freezing temperatures. Do not contaminate water, food, or feed by storage or disposal.

DISPOSAL

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

CONTAINER DISPOSAL: Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by the state authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

Stimulate yield enhancer is a biostimulant containing natural plant growth regulators and chelated trace minerals. Stimulate enhances plant growth and development by stimulating cell division, cell differentiation and enlargement, nutrient uptake, and nutrient utilization. It is especially effective when applied with foliar fertilizer, but it is also compatible with pesticides.

MIXING INSTRUCTIONS

Stimulate is water soluble and suitable for use in conventional liquid application systems including sprinkler irrigation systems.

Shake Stimulate thoroughly and dilute in sufficient water to assure adequate, even coverage without producing excessive runoff. Agitate the spray mixture during application and apply within 12 hours of dilution.

Stimulate can be applied tank mixed with most insecticides, fungicides, herbicides and foliar fertilizers but should be the last addition to the spray mixture.

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APPLICATION INSTRUCTIONS

Apply diluted Stimulate to foliage in 3 to 10 gallons of water per acre. Larger volumes of water may be used if not associated with excessive runoff. Early morning or late evening applications are recommended for best results.

When applying Stimulate in a band or as a foliar-directed spray, reduce the application rate from the recommended broadcast rate in proportion to the percent of the field surface area covered by the foliar spray, but not below the minimum rate listed in the table.

FIELD CROPS

CROP	NUMBER OF APPLICATIONS	RATE PER ACRE (Fl.Oz) BROADCAST	BAND	TIMING
Beets, sugar	1	16	8	6-8 leaf stage.
	2-3	8	4	Begin at the 2-leaf stage and then at 7-14 day intervals.
Corn	1	8	5	2-6 leaf stage.
Cotton	1	8	4	Between flower initiation and final bloom.
	2-3	4	3	Early bloom and 7-14 days later.
	3-4	4	3	Begin at pinhead square and then at 7-10 day intervals.
Peanuts	4-6	4	3	Begin 30 days after planting and then at 7-14 day intervals.
Rice	1	8	-	2-5 leaf stage or panicle initiation.
	2	4	-	2-5 leaf stage and panicle initiation.
Sorghum	1	8	5	2-6 leaf stage.
Soybeans	1	8	5	3-7 trifoliate leaf stage (V4-V8).
	2	4	3	3-7 trifoliate leaf stage (V4-V8) and 10-17 days later.

VEGETABLE CROPS

CROP	NUMBER OF APPLICATIONS	RATE PER ACRE (Fl.Oz) BROADCAST	BAND	TIMING
Beans	1	8	4	Between the third trifoliate leaf stage and flower bud formation.
	2-3	4	3	Begin at the third trifoliate leaf stage and then at 7-10 day intervals.
	4-6	3	2	Begin at the second trifoliate leaf stage and then at 7-14 day intervals.
Broccoli, Brussels sprouts, cabbage, cauliflower	3	6	4	Begin at 4-5 leaf stage and then at 10-14 day intervals.
Cucumber	1	8	4	Between flower bud initiation and first bloom.
	2-3	4	3	Begin at flower bud initiation and then at 7-10 day intervals.
	3-4	4	3	Begin at transplant, or at the 3-4 leaf stage for direct seeded and then at 7-10 day intervals.
Melons	1	8	4	Between flower bud initiation and first bloom.
	2-3	4	3	Begin at flower bud initiation and then at 7-10 day intervals.
	4-6	3	2	Begin 2 weeks after emergence and then at 7-14 day intervals.