


P1790

57538-13

143

Please read instructions on reverse before completing form.

Form Approved OMB No. 2070-0060. Approval expires 11-30-93

(A) 	United States Environmental Protection Agency Office of Pesticide Programs (H7505C) Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number  211814
	Application for Pesticide:		

## Section I

1. Company/Product Number 57538-13	2. EPA Product Manager Janet Andersen	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Stimulate Yield Enhancer	PM# 90	
5. Name and Address of Applicant (Include ZIP Code) STOLLER ENTERPRISES, INC. 8582 Katy Freeway, Suite 110 Houston, Texas 77024  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____ Product Name _____	

## Section II

<input type="checkbox"/> Amendment - Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - explain below.

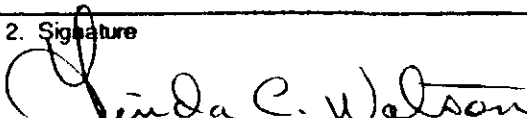
Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Response to PR Notice 95-3

## Section III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted.		If "Yes," Unit Package wgt	No. per container	If "Yes," Package wgt	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) of Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner In Which Label Is Affixed To Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled		<input type="checkbox"/> Other (_____)			

## Section IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Linda C. Watson	Title Consultant/Regulatory Affairs	Telephone No. (Include Area Code) (912) 482-2771
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Consultant/Regulatory Affairs	
4. Typed Name Linda C. Watson	5. Date December 20, 1995	

# 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%

This product contains: .002698 grams Cytokinin, .001499 grams Gibberellic Acid, .001499 grams Indole-3-butyric acid per fluid ounce.

EPA Reg. No. 57538-13      EPA Est. No. 57538-FL-6  
 Read label before using

**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.

**NET CONTENTS:**    ☐ 1 GAL.  
                               ☐ 2½ GAL.

**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" below.

**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**  
 User 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.

Manufactured by: STOLLER ENTERPRISES, INC.  
 8502 Katy Freeway, Suite 110 • Houston, Texas 77024  
 Phone: 713-461-1493

## 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 4 hours.

PPE required for entry into 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 systems. 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 valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. (4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. (5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point 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 if 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 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.

## 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				TIMING	VEGETABLE CROPS				TIMING
CROP	NUMBER OF APPLICATIONS	RATE PER ACRE BROADCAST	RATE PER ACRE BAND (Fl Oz.)		CROP	NUMBER OF APPLICATIONS	RATE PER ACRE BROADCAST	RATE PER ACRE BAND	
Beets, sugar	1	16	8	6-8 leaf stage	Beans	1	8	4	Between 1st and 2nd trifoliate leaf stage and flower bud formation.
	2-3	8	4	Begin at the 2-leaf stage and then at 7-14 day intervals.		2-3	4	3	Begin at the third trifoliate leaf stage and then at 7-10 day intervals.
Corn	1	8	5	2-6 leaf stage	Broccoli, Brussels Sprouts, Cabbage, Cauliflower	4-6	3	2	Begin at the second trifoliate leaf stage and then at 7-14 day intervals.
Cotton	1	8	4	Between flower initiation and final bloom.		1	6	4	Begin at 4-5 leaf stage and then at 10-14 day intervals.
	2-3	4	3	Early bloom and 7-14 days later.	Cucumber	1	8	4	Between flower bud initiation and first bloom.
Peanuts	3-4	4	3	Begin at pinhead square and then at 7-10 day intervals.		2-3	4	3	Begin at flower bud initiation and then at 7-10 day intervals.
Rice	4-6	4	3	Begin 30 days after planting and then at 7-14 day intervals.	Melons	3-4	4	3	Begin at transplant, or at the 3-4 leaf stage for direct seeded and then at 7-10 day intervals.
	1	8	-	2-5 leaf stage or panicle initiation.		1	8	4	Between flower bud initiation and first bloom.
Sorghum	2	4	-	2-5 leaf stage and panicle initiation.		2-3	4	3	Begin at flower bud initiation and then at 7-10 day intervals.
	1	8	5	2-6 leaf stage		4-6	3	2	Begin 2 weeks after emergence and then at 7-14 day intervals.
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.					

**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.