

Stimulate™ Auxin/Cytokinin

ACTIVE INGREDIENTS:

Cytokinin (as kinetin) 0.15%
Indole-3-butyric acid 0.85%

OTHER INGREDIENTS: 99.00%

Total 100.00%

This product contains: 0.044 grams cytokinin and 0.25 grams indole-3-butyric acid per fluid ounce.

CONTAINS NON-PLANT FOOD INGREDIENTS:

0.15% Cytokinin
0.85% Indole-3-butyric Acid

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE ADDITIONAL PRECAUTIONARY STATEMENTS
AND DIRECTION FOR USE IN BOOKLET.

Z- STIMAC

F2399

EPA Reg. No. 57538-54

Manufactured by

Stoller Enterprises, Inc.

9090 Katy Freeway, Suite 400

Houston, Texas 77024

Phone: 1-800-539-5283 or 713-461-1493



Stoller

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For Agricultural Uses and Turf and Ornamental Uses**

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Not for Use in California

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FIRST AID

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If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time (NPIC web site: www.npic.orst.edu).

MODE OF ACTION

STIMULATE AUXIN/CYTOKININ contains two (2) plant growth regulators (PGRs) found in nature that stimulate seeding and plant growth and improve root development. STIMULATE AUXIN/CYTOKININ contains vitamins that aid transplanting and plant growth.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Combustible. Do not use or store near heat or open flame. Harmful if inhaled. Avoid breathing vapor or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

PERSONAL PROTECTIVE EQUIPMENT

Waterproof gloves are sufficiently chemical-resistant for this product. If you want more options, follow the instructions for category A on the EPA chemical-resistance category selection chart.

Applicators, mixers, loaders, and other handlers must wear:

- long-sleeved shirt and long pants,
- chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride,
- shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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 cleaning equipment or disposing of equipment washwater or rinsate.

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 State or Tribal 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 unless wearing appropriate PPE.

Exception: If the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

CHEMIGATION USE DIRECTIONS

Apply through fixed or standing irrigation systems or through foliar applications. Foliar applications are preferred. Apply this product only through the following types of irrigation systems: (1) Sprinkler - including big gun, solid set, or hand move irrigation systems (2) Calibrated overhead watering booms. (3) Drip (or micro sprinkler) irrigation systems.

Before applying this product through any type of irrigation system, perform a small-scale trial to determine if products performance and Phytotoxicity results are acceptable. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have any questions about calibration, you should contact State Extension Service 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 device 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.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

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 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 flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional automatic, quick-closing valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must 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 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 or in cases where there is not water pump, 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.

Agitate the pesticide supply tank throughout the application of STIMULATE AUXIN/CYTOKININ. Except for turfgrass, apply STIMULATE AUXIN/CYTOKININ at the rate of 20 fl. Oz. per acre at the end of the irrigation period in a sufficient amount of water to allow proper coverage of plant or crop. Fill the supply tank one-half full with water, add the appropriate amount of STIMULATE AUXIN/CYTOKININ to the tank and finish filling the tank with water.

DRIP/TRICKLE OR SPRINKLER CHEMIGATION

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 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 (this statement only applies to sprinkler chemigation).

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MINIMUM ARRIVE FOLIAR SPRAY VOLUME (IN GALLONS) PER ACRE

Crop	Ground		Air
	Dilute	Concentrate	
Vegetables, Field Crops	15	-	5
Small fruits, vines, misc.	150	50	15
Tree Crops	400	50	20
Citrus	800	100	20

Spray volume applied per acre will differ depending upon the stage of plant growth, equipment used, and the specific crops.

Compatibility: STIMULATE AUXIN/CYTOKININ compatibility with other agricultural products requires testing for crop safety and performance prior to large-scale use. Products mixed with STIMULATE AUXIN/CYTOKININ must not be in alkaline (pH>7) solution. STIMULATE AUXIN/CYTOKININ can be mixed with any product having a pH less than 7. If rain occurs within 2 hours after initial application, a repeat application may be necessary. Spray volume applied per acre will depend on the equipment used and specific crop. Apply sufficient water volume to ensure thorough coverage.

DRENCH APPLICATION OF STIMULATE AUXIN/CYTOKININ ON CROPS

Crop	Amount of Product in Fl. Oz.	Application Timing
Brassica vegetables such as: broccoli, cauliflower and cabbage Strawberry	2 Fl. Oz. per 10 gallons of water	1 st treatment at time of transplant. 2 nd treatment 10-14 days after first application. Spray immediately after transplant.

IN-FURROW APPLICATION OF STIMULATE AUXIN/CYTOKININ ON CROPS

Crop	Amount of Product in Fl. Oz.	Application Timing
Field Corn Grain Sorghum Sugar Beets Sugarcane Wheat, Barley, Oats, Rye Other in furrow at planting Crops	2 Fl. Oz. per acre OR 1.3 Fl. Oz. per 10 gallons of water	Apply at planting in the seed furrow or 2 inches beside and 2 inches below seed or with a strip till machine 3 inches below the seed. Can be applied with or without starter fertilizer.

HYDROPONICS APPLICATION OF STIMULATE AUXIN/CYTOKININ ON CROPS

13 Fl. Oz. of STIMULATE AUXIN/CYTOKININ in 10 gallons reservoir to improve the root and plant growth.

TURFGRASS

For Sod Grass: Apply STIMULATE AUXIN/CYTOKININ by ground using 20-40 gallons of water per acre. Use 1.3 Fl. Oz. per 10 gallons of water at 1:1,000 dilution rate.

For Turfgrass: Warm and cool climate grasses such as St. Augustine, Bermuda, Centipede, Bluegrass, Rye and Fescue: Use 0.13-0.65 Fl. Oz./1-5 gallons of water per 1,000 sq. ft. For Dichondra: Use 0.65-1.3 Fl. Oz./1-5 gallons of water per 1,000 sq. ft. Make application at 2-week intervals during the growing season.

ORNAMENTALS

Greenhouse and nursery ornamentals such as foliage plants, bedding and flowering plants, woody ornamentals and garden grown fruit trees: Dilute 0.85 Fl. Oz. of STIMULATE AUXIN/CYTOKININ in 10 gallons of water (1:1,500 dilution rate) for plants less than 2 years old. Dilute 1.3 Fl. Oz. of STIMULATE AUXIN/CYTOKININ in 10 gallons of water (1:1,000 dilution rate) for mature plants.

Repeat application at 10-14 day intervals when required. Apply 2 weeks prior to sale. Uniform and thorough coverage is necessary.

CUTTINGS

Soft wood, semi-hard wood, hard wood such as Dogwood, Douglas Fir, Forsythia, Hawthorne, Oak, Pine Poplar: Dip fresh cuttings in a solution of 1 part of STIMULATE AUXIN/CYTOKININ in 5 parts of water for hard woodcuttings for 3-5 seconds.

Dip fresh cuttings in a solution of 1 part of STIMULATE AUXIN/CYTOKININ in 10 parts of water for semi-hard wood cutting for 3-5 seconds. Dip fresh cuttings in a solution of 1 part of STIMULATE AUXIN/CYTOKININ in 20 parts of water for soft woodcuttings for 3-5 seconds.

It is necessary to follow plant propagation practices.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container in a cool, dry locked place out of reach of children and out of direct sunlight.

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:

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying.

Nonrefillable container equal to or less than 5 gallons. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 120 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinse into application equipment or a mix tank or store rinseate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable container greater than 5 gallons. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinseate into application equipment or a mix tank or store rinseate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call CHEMTREC 1-800-424-9300

CONDITION OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Stoller Enterprises, Inc. or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Stoller Enterprises, Inc. harmless for any claims relating to such factors. To the fullest extent permitted by law, Stoller Enterprises, Inc. warrants that the product conforms to the description on the label and is reasonably fit for the purposes set forth on the label, when used according to directions under normal use conditions. Neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product contrary to the label instructions; the buyer assumes the risk of any such uses.

NOTES

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