

# NEXTA™ >> SPARK

## A Plant Growth Regulator and Yield Stimulant

### ACTIVE INGREDIENT(S):

Cytokinin, as kinetin,  
based on biological activity ..... 0.04%

**OTHER INGREDIENT(S):** ..... 99.96%

**TOTAL:** ..... 100.00%

(Contain [12.3 mg.oz] [416 mg/ml])

CONTAINS NON-PLANT FOOD INGREDIENT: 0.04% Cytokinin

NEXTA SPARK™ provides cytokinin, which is critical for vegetative growth, reproductive development and abiotic stress mitigation.

## KEEP OUT OF REACH OF CHILDREN CAUTION

See additional Precautionary Statements, First Aid  
and Directions for Use inside booklet

Density: 8.68 lbs/Gal or 1.04 kg/L

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if absorbed through the skin or swallowed. Avoid contact with skin, eyes and clothing. 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

Some materials that are chemical resistant to this product are any waterproof material. If you want more options, follow instructions for category A on an EPA chemical-resistance category selection chart.

Applicators 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.

Net Contents:

Lot  
Number:

Rev: 24H5

EPA Reg. No. 57538-74

Z-NEXTASPAK

EPA Est. No. 57538-TX-2

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. 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.

### ENVIRONMENTAL HAZARDS

**For terrestrial uses:** Do not apply directly to water or areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water by cleaning of equipment or disposal of equipment wash water or rinsate. Exposed treated seed may be hazardous to birds and other wildlife. Treat only those seeds needed for immediate use and planting. Dispose of all excess treated seed and seed packaging by burial away from streams and bodies of water.

**Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.**

### USER SAFETY RECOMMENDATIONS

- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Do not use in California.



**Manufacturer and Guaranteed by  
Stoller Enterprises, Inc.**

9090 Katy Fwy., Suite 400 | Houston TX 77024 U.S.A.

Toll Free 1-800-539-5283 or 1-713-461-1493

Stoller Web: [www.nextabiologicals.com](http://www.nextabiologicals.com) E-mail: [info@stollerusa.com](mailto:info@stollerusa.com)

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<b>FIRST AID</b>	
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
-Have the product container or label with you when calling a poison control center or doctor or are going for treatment. -For general information on product use, call the National Pesticides Information Center at 1-800-858-7378. -For emergencies, call the Poison Control Network at 1-800-222-1222	
<b>FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call CHEMTREC at 1-800-424-9300.</b>	

NEXTA SPARK is the market-leader in consistency and performance limiting yield loss due to cytokinin deficiency.

NEXTA SPARK is an EPA-registered plant growth regulator and yield stimulant.

**Product Benefits for Corn:**

- Increases pollen production
- Increases fertility
- Increases kernel weight
- Increases grain density
- Reduces kernel abortion

**Product Benefits for Soybeans:**

- Increases seed size
- Increases seed weight
- Reduces pod loss

**Product Benefits for Wheat and Small Grains:**

- Increases grains per head
- Increases stalk strength

NEXTA SPARK is tank-mix compatible with many leading fungicides

Protects yields during periods of high temperature

NEXTA SPARK works to restore hormonal balance, improve carbohydrate storage capacity, and increase cell division in plants for enhanced uniformity, density and quality of fruit / grain.

Optimizes, protects, enables and enhances yield potential  
 NEXTA SPARK works to optimize plant's health, physiology and vigor at each critical growth stage.

NEXTA SPARK provides increased sugar storage capacity

Up-regulates genes associated with sugar transport, increasing sugars in the reproductive parts of the plant

Produces more cells for higher density and higher kernel and seed weight

Helps produce a thicker cell wall more resistant to break-down and seed abortion

Increases cell division

Protects yield potential

Maximizes yield potential

Improves pollination, flowering and fruit set in high temperatures

Increases tillers on tillering crops

Improves small grain stalk strength

Improves grain fill, reduces tip back and increases test weight on corn

Holds more pods on soybean

NEXTA SPARK promotes plant physiological development though participation in cell division and enlargement

## 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 and in 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 (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Do not enter or allow worker entry into treated areas during the REI of 4 hours unless wearing the appropriate PPE.

For early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water, wear:

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

### CHEMIGATION\*

#### Application and Calibration Techniques for Sprinkler Irrigation

Apply this product only through the following types of irrigation systems: sprinkler including center pivot, traveler, big gun, motorized lateral move, end tow, side (wheel) roll, solid set, or hand move irrigation; furrow; or drip (trickle) irrigation systems. Do not apply through any other types of irrigation systems. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform 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 product 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 product 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 product 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 product will remain in suspension during the injection cycle. Product 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 pesticide is cleared from last sprinkler head.

\*Not for Use in California

#### Safety Devices for Sprinkler Chemigation

- (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.

#### **Furrow Chemigation\***

- Systems Connected to Public Water Sources**
- (1) 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 a year.
- (2) 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 the fill pipe.
- (3) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- (4) 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 fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- (5) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- (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.

pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

- f. 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.

Apply NEXTA SPARK with sufficient water to penetrate into the root zone without excessive leaching into deeper soil.

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#### **GENERAL USE INSTRUCTIONS**

For best results, apply NEXTA SPARK before noon or after 4 p.m. Use an approved adjuvant cleared for application to growing crops with the product. Before using, clean thoroughly with soap and water any spigot or pump put into an NEXTA SPARK drum. Mix NEXTA SPARK with enough water to get thorough coverage of plant surfaces. NEXTA SPARK is compatible with most other spray materials, but always conduct a jar test when using an untried combination to ensure compatibility.

#### **Drip (Trickle, Tape) Chemigation\***

- (1) 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.
- (2) The pesticide injection pipeline 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 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.

Apply NEXTA SPARK with sufficient water to penetrate into the root zone without excessive leaching into deeper soil.

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#### **CROP USAGE – ALL CROPS FOR STRESS RELIEF\***

Use 1 pint NEXTA SPARK per acre (1.2 liters/hectare) on any crop prematurely dying down (loss of color) due to stress caused by one or more of the following conditions: weather (frost, drought, excessive moisture), insect infestation, fungus attack, and/or herbicide burn.

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#### **CROP USAGE – ALL CROPS LISTED FOR TRANSPLANTING\* AND SEED BED TREATMENT\***

Use 1 part NEXTA SPARK to 1000 parts water (approximately 1 tablespoon NEXTA SPARK (15 ml) to 1 gallon (3.8 liters) water) as a root dip and watering solution when transplanting.

Use 2 pints STO-2004 NEXTA SPARK per acre (2.4 liters/hectare) applied to the seedbed at time of seeding or up to 20 days thereafter.

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**MIXING INSTRUCTION:** Follow this mixing order 1. Water 2. NEXTA SPARK 3. Other Fertilizer / Pesticide. NEXTA SPARK will disperse in water with little agitation. NEXTA SPARK is compatible with most fertilizers, herbicides, fungicides, insecticides, and pesticides. Always conduct a jar test when using new or untried combinations.

#### **USE RATES FOR FOLIAR, SOIL BAND, IN-FURROW AND/OR CHEMIGATION\* APPLICATION:**

Dilute appropriate use rate from table below in 100 gallons of water and apply according to application instructions.

#### **FOR ALL CROPS LISTED BELOW**

Use the higher rate listed in the use rates below by crop, for single planned foliar applications or through in furrow or chemigation (single or multiple) applications. With planned multiple foliar applications, the lower rates in the range below by crop applied multiple times is acceptable.

#### **FOR FOLIAR AND FERTIGATION APPLICATION**

Please reference the table below.

# COMMERCIAL AGRICULTURE-APPLICATION RATES

## ROW CROPS

CROP	USE RATE	APPLICATION	MAXIMUM APPLICATION RATES
BARLEY*	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Application: 1 to 2 weeks before boot stage. Applications may extend into the reproductive stages.	1 pint/acre (1.2 liters/hectare) per application
CANOLA*	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1st application: at first flower. 2nd application: 2 to 3 weeks after 1st spraying. 3rd Applications may extend into the reproductive stages	1 pint/acre (1.2 liters/hectare) per application
CORN* (such as: field*, popcorn*, sweet*)	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Begin at the 2 leaf stage and continue until R4. Application to be made at 7-21 day intervals.	1 pint/acre (1.2 liters/hectare) per application
OATS*	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Application: 1 to 2 weeks before boot stage. Applications may extend into the reproductive stages	1 pint/acre (1.2 liters/hectare) per application
RYE*	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Application: 1 to 2 weeks before boot stage.	1 pint/acre (1.2 liters/hectare) per application
SORGHUM*	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1st application: At the 1 to 1.5 foot (31 to 46 cm) stage. 2nd application: at tassel time. 3rd Applications may extend into the reproductive stages.	1 pint/acre (1.2 liters/hectare) per application
SOYBEANS*	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Begin at the 2 leaf stage and continue until R4. Application to be made at 7-21 day intervals	1 pint/acre (1.2 liters/hectare) per application
WHEAT*	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Application: 1 to 2 weeks before boot stage. Applications may extend into the reproductive stages	1 pint/acre (1.2 liters/hectare) per application

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## SEED TREATMENT\*

Use only on seeds for crops listed elsewhere on the label. Do not use treated seed for food, feed or oil purposes. Commercially treated seed must be labeled in accordance with the requirements of the Federal Seed Act and applicable State seed laws. An approved dye must be added to distinguish treated seed and prevent inadvertent use for food, feed, or oil purposes.

Per hundredweight (cwt.) of seed (45 kg), dilute 2 fl.oz (59 ml) of NEXTA SPARK in equal amounts of water and mist spray on seed. NEXTA SPARK can be poured on or mixed with the seed in the hopper at planting.

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## STORAGE AND DISPOSAL

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

**STORAGE:** Store in a cool place and out of direct sunlight.

**PESTICIDE DISPOSAL:** To avoid wastes, use all of the material in this container by application according to label directions. If waste cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

### CONTAINER HANDLING:

Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill container ¼ full with water and recap.

For containers 5 gallons (19 liters) or less: Shake for 10 seconds. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure two more times. For containers larger than 5 gallons (19 liters): Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand 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 rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat procedure two more times.

All sizes: Offer the container for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

## WARRANTY

To the fullest extent permitted by law, neither the manufacturers nor the seller make any warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use of this material when such use is contrary to label instructions. Read and follow the label directions carefully.



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PEEL BACK BOOK HERE AND RESEAL AFTER OPENING