



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

July 22, 2024

Jeffrey Currie  
jcurrie@springregulatory.com  
STOLLER ENTERPRISES, INC.

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment - Revision to change net contents/net weight, general use instructions, application rates, and add new crops.  
Product Name: X-CYTE  
Admin Number: 57538-15  
EPA Receipt Date: 09/12/2023  
Action Case Number: 00489593

Dear Jeffrey Currie:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

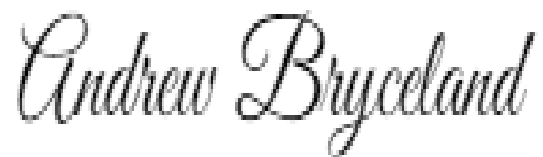
A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have questions, please contact James Parker via email at [parker.james@epa.gov](mailto:parker.james@epa.gov).

Sincerely,

A handwritten signature in black ink that reads "Andrew Bryceland". The script is elegant and cursive, with the first letter of each word being capitalized and larger than the others.

Andrew Bryceland, Team Leader  
BPB, BPPD  
Office of Pesticide Programs

[Denotes Optional Text]

{Denotes Notes to EPA Reviewer} {Label version date: 09/01/2023}

{Front Panel start}

**ACCEPTED**

**07/22/2024**

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 57538-15

**X-CYTE™**

**A Plant Growth Regulator and Yield Stimulant**

ACTIVE INGREDIENT(S):

Cytokinin, as kinetin, based on biological activity ..... 0.04%  
INERT INGREDIENT(S): ..... 99.96%

TOTAL: ..... 100.00%

(Contains [12.3mg/oz] [416 mg/ml])  
CONTAINS NON-PLANT FOOD INGREDIENT:  
0.04% Cytokinin

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See additional Precautionary Statements and Directions for Use [inside booklet] [on [back  
panel] [side panel] [other panel].

< Z-XCYTE >

EPA Reg. No. 57538-15

EPA Est. No. ☐ 57538-TX-2

**DENSITY::** 8.4 lbs/gal or 1.01 kg/L

**NET CONTENTS/[NET WEIGHT]:**

☐ 1 Gal (8.4 lb)    ☐ 2.5 Gal (21 lb)    ☐ 5 Gal (42.1 lb)    ☐ 55 Gal (463.5 lb)]

**NET CONTENTS/[NET WEIGHT:]**

☐ 4 L (4 Kg)    ☐ 10 L (10.1 Kg)    ☐ 20 L (20.2 Kg)    ☐ 208 L (210 Kg)]

[\*Not for use in California] –

[Lot Number:]

[Batch Number:]

[Manufacture Date:]

[Best if used by: ]

[30 Gal (252.8 lb)]

[275 Gal (2317.8 lb)]

[115 L (116.1 Kg)]

[1040 L (1050.4 Kg)]

[1.0 Quart (2.1 lb)] [0.95 L (1.0 Kg)]

[1.0 Pint (1.05 lb)] [0.47 L (0.50 Kg)]

[Rev: [ 23H30]] {will change if non-amendment label changes  
occur}

{End Front Panel}

**{Optional Marketing Claims – can appear anywhere on the label}**

[X-Cyte™ provides cytokinin, which is [critical] [crucial] for vegetative growth, reproductive development and abiotic stress mitigation.]

[X-Cyte is the market-leader in consistency and performance limiting yield loss due to cytokinin deficiency.]

[X-Cyte 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]]

[Product Benefits for Cotton:

[Increases bolls per plant]]

[Product Benefits for Fruits and Vegetables:

[Promotes larger fruit development]]

[X-Cyte is tank-mix compatible with many leading fungicides]

[Protects yields during periods of high temperature]

[X-Cyte 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] [Enhances] yield potential]

[X-Cyte works to optimize plant's health, physiology and vigor at each critical growth stage.]

[X-Cyte 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 breakdown 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, more bolls on cotton]

[X-Cyte promotes larger fruit development in fruits, vegetables and nut crops]

[X-Cyte promotes plant physiological development through participation in cell division and enlargement]

<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>	

## **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 (PPE)**

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.

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.

### **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.

## **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.**

### **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.

#### **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 or, in cases where there is no water pump, 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.

#### **In-Furrow Chemigation[\*]**

- (1) Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.



- (2) Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
- 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 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.

Apply X-CYTE with sufficient water to penetrate into the root zone without excessive leaching into deeper soil.  
[\*Not for Use in California]

#### **Drip (Trickle) 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 X-CYTE with sufficient water to penetrate into the root zone without excessive leaching into deeper soil.  
[\*Not for Use in California]

#### **GENERAL USE INSTRUCTIONS**

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

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

Use 1 pint X-CYTE 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.  
[\*Not for Use in California]

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

Use 2 pints X-CYTE per acre (2.4 liters/hectare) or 1 part X-CYTE to 1000 parts water (approximately 1 tablespoon X-CYTE (15 ml) to 1 gallon (3.8 liters) water) as a root dip and watering solution when transplanting.

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

[\*Not for Use in California]

**MIXING INSTRUCTION:** Follow this mixing order 1. Water 2. X-CYTE 3. Other Fertilizer/Pesticide. X-CYTE will disperse in water with little agitation. X-CYTE 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, IN-FURROW AND/OR CHEMIGATION[\*] APPLICATION:****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****TREE NUT AND TREE FRUIT**

CROP	USE RATE	APPLICATION	MAXIMUM APPLICATION RATES
ALMONDS[*]	1.0 to 2.0 pints/acre (0.6 to 2.4 liters/hectare)	1st application: use 1.0 to 2 pints per acre (0.6 to 2.4 liters/hectare) applied during petal fall. 2nd application: use 1.0 to 2 pints per acre (0.6 to 2.4 liters/hectare) during vegetative development. 3rd application: use 1.0 to 2 pints per acre (0.6 to 2.4 liters/hectare) during early fruit development. 4th application: use 1.0 to 2 pints per acre (0.6 to 2.4 liters/hectare) during late fruit development. 5th application: use 1.0 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud development. 6th application: use 1.0 to 2 pints per acre (0.6 to 2.4 liters/hectare) post-harvest.	2 pints/acre (2.4 liters/hectare) per application
AVOCADOS[*]	1 pint/acre (1.2 liters/hectare)	1st application: at prebloom. 2nd application two weeks after the first 3rd application: at full pink. 4th application: at calix (petal fall). 5th application: 3 weeks after 2 <sup>nd</sup> spraying.	1 pint/acre (1.2 liters/hectare) per application

		6 <sup>th</sup> application: 4 weeks after 3 <sup>rd</sup> spraying.	
BANANAS[*]	0.85 to 8.5 pints per acre ( 0.4 to 4 liters/hectare)	To reduce stress: Apply when stress conditions are anticipated. Rates and timing must be determined for each site. Make applications at least 14 days apart using ground sprayers, aerial sprayers, or by plant injection.	8.5 pints/acre (4 liters/hectare)
CASHEWS[*]	0.5 to 2.0 pints/acre (0.6 to 2.4 liters/hectare)	1st application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) applied at petal fall. 2nd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) four weeks post petal fall. 3rd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) 8 weeks post petal fall. 4th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud initiation. 5th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud development.	2 pint/acre (2.4 liters/hectare) per application
CHESTNUTS[*]	0.5 to 2.0 pints/acre (0.6 to 2.4 liters/hectare)	1st application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) applied at petal fall. 2nd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) four weeks post petal fall. 3rd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) 8 weeks post petal fall. 4th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud initiation. 5th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud development.	2 pint/acre (2.4 liters/hectare) per application
CITRUS CROPS[*] (such as: grapefruit[*], kumquat[*], lemons[*], limes[*], oranges[*], tangelos[*], tangerines[*])	0.25 to 2 pint/acre (1.2 liters/hectare)	1st application: at prebloom. 2nd application: at calyx (petal fall). 3rd application: 3 weeks after 2nd spraying. 4th application: 4 weeks after 3rd spraying	2 pint/acre (1.2 liters/hectare) per application
DATES[*]	0.5 to 2.0 pints/acre (0.6 to 2.4 liters/hectare)	Apply at the onset of petal fall. Repeat during fruit set, targeting stages of cell division.	2 pint/acre (2.4 liters/hectare) per application

FIGS[*]	0.5 to 2.0 pints/acre (0.6 to 2.4 liters/hectare)	1st application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) applied at petal fall. 2nd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) four weeks post petal fall. 3rd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) 8 weeks post petal fall. 4th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud initiation. 5th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud development.	2 pint/acre (2.4 liters/hectare) per application
HAZELNUT[*]	0.5 to 2.0 pints/acre (0.6 to 2.4 liters/hectare)	1st application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) applied at petal fall. 2nd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) four weeks post petal fall. 3rd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) 8 weeks post petal fall. 4th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud initiation. 5th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud development.	2 pint/acre (2.4 liters/hectare) per application
MACADAMIAS[*]	0.5 to 2.0 pints/acre (0.6 to 2.4 liters/hectare)	1st application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) applied at petal fall. 2nd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) four weeks post petal fall. 3rd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) 8 weeks post petal fall. 4th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud initiation. 5th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud development.	2 pint/acre (2.4 liters/hectare) per application
MANGOES[*]	1 pint/acre (1.2 liters/hectare)	1st application: at prebloom. 2nd application: at calyx (petal fall). 3rd application: 3 weeks after 2nd spraying. 4th application: 4 weeks after 3rd spraying.	1 pint/acre (1.2 liters/hectare) per application

OLIVES[*]	2 to 8 fl. Oz./acre (0.15 to 0.6 liters/hectare)	Every 7 to 21 days from bud break through harvest.	8 fl. Oz./acre (0.6 liters/hectare) per application
PAPAYAS[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1st application: at petal fall with the first flowers Repeat every two weeks	1 pint/acre (1.2 liters/hectare) per application
PECANS[*]	0.5 to 2.0 pints/acre (0.6 to 2.4 liters/hectare)	1st application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) applied at petal fall. 2nd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) four weeks post petal fall. 3rd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) 8 weeks post petal fall. 4th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud initiation. 5th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud development.	2 pint/acre (2.4 liters/hectare) per application
PISTACHIOS	0.5 to 2.0 pints/ acre (0.6 to 2.4 liters/ hectare)	1st application: use 2 pints per acre (2.4 liters/hectare) applied at Bloom. 2nd application: use 2 pints per acre (2.4 liters/hectare) during fruit growth. 3rd application: use 2 pints per acre (2.4 liters/hectare) during shell hardening. 4th application: use 2 pints per acre (2.4 liters/hectare) during kernel development. 5th application: use 2 pints (2.4 liters/ hectare) per acre during post-harvest.	2 pint/acre (2.4 liters/hectare) per application
PLANTAINS[*]	0.85 to 8.5 pints per acre  (1.19 to 11.9 liters/ hectare)	To reduce stress: Apply when stress conditions are anticipated. Rates and timing must be determined for each site. Make applications at least 14 days apart using ground sprayers, aerial sprayers, or by plant injection.	8.5 pints/acre (11.9 liters/ hectare)
POME FRUIT[*] (such as apple[*], pear[*], Asian pear[*], quince[*])	1 pint/acre (1.2 liters/hectare)	1 <sup>st</sup> application: at full pink. 2 <sup>nd</sup> application: at calyx (petal fall). 3 <sup>rd</sup> application: 3 weeks after 2 <sup>nd</sup> spraying. 4 <sup>th</sup> application: 4 weeks after 3 <sup>rd</sup> spraying.	1 pint/acre (1.2 liters/hectare) per application

POMEGRANATES[*]	2 to 8 fl. Oz./acre (0.15 to 0.6 liters/hectare)	Every 7 to 21 days from bud break through harvest.	8 fl. Oz./acre (0.6 liters/hectare) per application
STONE FRUIT[*] (such as apricots[*], peaches[*], nectarines[*], plumcots[*], plums[*], prunes[*], cherry[*], red tart cherry[*], sweet cherry[*], Italian prune[*])	1 pint/acre (1.2 liters/hectare)	1st application: at prebloom. 2nd application: at calyx (petal fall). 3rd application: 3 weeks after 2nd spraying. 4th application: 4 weeks after 3rd spraying.	1 pint/acre (1.2 liters/hectare) per application
WALNUTS[*]	0.5 to 2.0 pints/acre (0.6 to 2.4 liters/hectare)	1st application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) applied at petal fall. 2nd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) four weeks post petal fall. 3rd application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) 8 weeks post petal fall. 4th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud initiation. 5th application: use 0.5 to 2 pints per acre (0.6 to 2.4 liters/hectare) at bud development.	2 pint/acre (2.4 liters/hectare) per application

[\*Not for use in California]

#### FRUIT AND VEGETABLE CROPS

CROP	USE RATE	APPLICATION	MAXIMUM APPLICATION RATES
ARTICHOKES (GLOBE)[*]	1 to 2 pints/acre (1.2 to 2.4 liters/hectare)	1 <sup>st</sup> application: spray crowns when growth begins. 2 <sup>nd</sup> application: spray crowns after each cutting.	2 pint/acre (2.4 liters/hectare) per application
ASPARAGUS[*]	1 to 2 pints/acre (1.2 to 2.4 liters/hectare)	1 <sup>st</sup> application: spray crowns when growth begins. 2 <sup>nd</sup> application: spray crowns after each cutting.	2 pint/acre (2.4 liters/hectare) per application
BERRIES[*] (such as: blackberries[*], blueberries[*], boysenberries[*], currants[*] dewberries[*], gooseberries[*],	2 to 8 fl. Oz./acre (0.15 to 0.6 liters/hectare)	Every 7 to 21 days from bud break through harvest	8 fl. Oz./acre (0.6 liters/hectare) per application

huckleberries[*], loganberries[*], raspberries[*])			
CARROTS[*]	1 pint/acre (1.2 liters/hectare)	1 <sup>st</sup> application: at tuber initiation. 2 <sup>nd</sup> application: 2 to 3 weeks after first spraying.	1 pint/acre (1.2 liters/hectare) per application
CELERY[*]	1 to 2 pints/acre (1.2 to 2.4 liters/hectare)	1 <sup>st</sup> application: Use 2 pints X-CYTE per acre (2.4 liters/hectare) applied to the seed bed at time of seeding or up to 20 days thereafter. 2 <sup>nd</sup> application: Use 2 pints X-CYTE per acre (2.4 liters/hectare) at the time seedlings are transplanted. See transplanting instructions above. 3 <sup>rd</sup> application: Use 1 pint X-CYTE per acre (1.2 liters/hectare) 2 to 3 weeks after transplanting	2 pint/acre (2.4 liters/hectare) per application
CRANBERRIES[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: Use 0.5 to 1 pint per acre (0.6 to 1.2 liters/hectare) applied at bud break. 2 <sup>nd</sup> application: Use 0.5 to 1 pint per acre (0.6 to 1.2 liters/hectare) applied at early flower. 3 <sup>rd</sup> application: Use 0.5 to 1 pint per acre (0.6 to 1.2 liters/hectare) applied at fruit set.	1 pint/acre (1.2 liters/hectare) per application
CRUCIFEROUS CROPS[*] (such as: broccoli[*], brussels sprouts[*], cabbage[*], camelina[*], cauliflower[*], collards[*], kale[*], mustard greens[*], radish[*], pennycress[*], rutabagas[*], turnips[*])	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: 3 to 4 inch (8-10 cm) stage. Repeat at 10 to 14 day intervals.	1 pint/acre (1.2 liters/hectare) per application
CUCURBITS[*] (such as: cantaloupe[*], cucumbers[*], honeydew[*], melons[*], muskmelon[*],	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: 4 to 8 inch (10 to 20 cm) stage. 2 <sup>nd</sup> application: at early bloom. 3 <sup>rd</sup> application: start of fruiting. 4th application: 7 days after start fruiting	1 pint/acre (1.2 liters/hectare) per application

pumpkins[*], squash[*], watermelon[*])			
EGGPLANT[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1st application: just prior to 1st bloom. 2nd application: 10 days after 1st spraying. 3rd application: 10 days after 2nd spraying.	1 pint/acre (1.2 liters/hectare) per application
FLAX[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: 4 to 8 inch (10 to 20 cm) stage. 2 <sup>nd</sup> application: at early bloom.	1 pint/acre (1.2 liters/hectare) per application
GINSENG[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: during late leaf development 2 <sup>nd</sup> application: during perennating bud formation.	1 pint/acre (1.2 liters/hectare) per application
GRAPES[*], (such as: wine grapes[*], table grapes[*])	1 pint/acre (1.2 liter/hectare)	1st application: between leafout and prebloom. Repeat 1st application every 7 to 10 days between leafout and prebloom 2nd application: at petal fall. 3rd application: 30 days before harvest.	1 pint/acre (1.2 liters/hectare) per application
KIWI[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Apply at the onset of petal fall and repeat at fruit set.	1 pint/acre (1.2 liters/hectare) per application
LETTUCE[*] (such as: head lettuce[*] and leaf lettuce[*])	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Application: 3 to 4-inch (8-10 cm) stage	1 pint/acre (1.2 liters/hectare) per application
MINT[*] (such as: spearmint[*], peppermint[*])	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Application: During early growth	1 pint/acre (1.2 liters/hectare) per application
OKRA[*]	1 to 2 pints/acre (1.2 to 2.4 liters/hectare)	1 <sup>st</sup> application: spray fruit when growth begins.	2 pint/acre (2.4 liters/hectare) per application
ONIONS[*], GARLIC[*], DRY ONIONS[*], DRY SHALLOTS[*]	1 pint/acre (1.2 liters/hectare)	1st application: at bulb initiation. 2nd application: 2 to 3 weeks after 1st spraying.	1 pint/acre (1.2 liters/hectare) per application
PARSLEY[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Application: During early growth	1 pint/acre (1.2 liters/hectare) per application



PEAS[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1st application: 3 to 4 inch (8-10 cm) stage. 2nd application: prebloom. 3rd application: at early pod set.	1 pint/acre (1.2 liters/hectare) per application
PEPPERS[*]	0.5 to 1 pint/acre (0.6 to 1.2 liter/hectare)	1st application: just prior to 1st bloom. 2nd application: 10 days after 1st spraying. 3rd application: 10 days after 2nd spraying.	1 pint/acre (1.2 liters/hectare) per application
PINEAPPLE[*]	1 to 2 pints/acre (1.2 to 2.4 liters/hectare)	To reduce plant stress*: Apply to vegetative growth according to climate and crop needs at the site of proposed application. To improve fruit growth*: 1st application between 15 and 45 days after flower forcing 2nd application: between 45 and 60 days after flower forcing* * Can be repeated every two weeks until harvest.	2 pint/acre (2.4 liters/hectare) per application
SPINACH[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Application: 3 to 4 inch (8-10 cm) stage	1 pint/acre (1.2 liters/hectare) per application
STRAWBERRIES[*]	0.5 to 2.0 pints/ acre (2.4 liters/ hectare)	1st application: As a transplant solution. See "Transplanting Instructions" above. 2nd application: At prebloom. 3rd application: At petal fall. 4th application: After harvest	2 pint/acre (2.4 liters/hectare) per application
TOMATOES[*]	1 to 2 pints/acre (1.2 to 2.4 liters/hectare)	1st application: use 2 pints per acre (2.4 liters/hectare) applied to the seed bed at time of seeding or up to 20 days thereafter. 2nd application: use 2 pints per acre (2.4 liters/hectare) at the time seedlings are transplanted. See "Transplanting Instructions". 3rd application: use 1 pint per acre (1.2 liters/hectare) 2 to 3 weeks after 1st bloom.	2 pint/acre (2.4 liters/hectare) per application

[\*Not for use in California]

#### ROW CROPS

CROP	USE RATE	APPLICATION	MAXIMUM APPLICATION RATES
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ALFALFA[*] including seed alfalfa	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: after cutting, with repeat sprays at 14 to 21-day intervals.	1 pint/acre (1.2 liters/hectare) per application
BEAN CROPS[*] (such as: dry[*], colored[*], green[*], snap[*], lima[*], lentils[*], Etc[*])	1.0 to 2.0 pints/acre (1.2 to 2.4 liters/hectare)	1 <sup>st</sup> application: 4 to 5 inch (10 to 13 cm) stage. 2 <sup>nd</sup> application: at early bloom. 3 <sup>rd</sup> application: at early pod set.	2 pint/acre (2.4 liters/hectare) per application
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
BEETS[*] (such as sugar beets[*] and table beets[*])	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: at tuber initiation. 2 <sup>nd</sup> application: 2 to 3 weeks after 1 <sup>st</sup> spraying. Applications may extend into the reproductive stages.	1 pint/acre (1.2 liters/hectare) per application
BUCKWHEAT[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: at onset of rapid growth during vegetative stages (approximately 2-3 weeks after emergence) 2 <sup>nd</sup> application: during early flowering.	1 pint/acre (1.2 liters/hectare) per application
CANOLA[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: at first flower. 2 <sup>nd</sup> application: 2 to 3 weeks after 1 <sup>st</sup> spraying. 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)	Applications may begin as early as V2 and continue until R4. Application to be made at 7- 21 day intervals.	1 pint/acre (1.2 liters/hectare) per application
COTTON[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/ hectare)	1 <sup>st</sup> application: At pinhead square with repeat applications at 14 to 21 day intervals.	1 pint/acre (1.2 liters/hectare) per application
HOPS [*]	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
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
PEANUTS[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: at pegging. 2 <sup>nd</sup> application: 2 to 3 weeks after 1 <sup>st</sup> spraying. Applications may extend into the reproductive stages.	1 pint/acre (1.2 liters/hectare) per application

POTATOES[*]	0.5 to 1 pint/acre (0.6 to 1.2 to 2.4 liters/hectare)	1st application: at tuber set. The time of application is determined by pulling an average size plant in the field 4 weeks (and every 7 days thereafter if necessary) after planting. Observe the roots to see if tubers are forming. Anytime you see the small tubers forming, it is time for the 1st application. Usually tubers start to set 5 to 6 weeks after planting.  2nd application: at full blossom. Spray Russet Burbanks, which do not show full blossom, 2 to 3 weeks after 1st spray.	1 pint/acre (1.2 liters/hectare) per application
RICE[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1st application: at 2 to 5 leaf stage with repeat application 14 to 21 days after 2nd application: at heading.	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
SESAME[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: at early juvenile stage (at onset of rapid growth). 2 <sup>nd</sup> application: at mid-bloom.	1 pint/acre (1.2 liters/hectare) per application
SORGHUM[*] (such as: grain sorghum[*], forage 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. Begin at the 2- leaf stage and continue until R4. Applications may be made at 7-21 day intervals. 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)	Applications may begin as early as V2 and continue until R4. Applications may be made at 7-21 day intervals	1 pint/acre (1.2 liters/hectare) per application
SUGAR CANE[*]	1 pint/acre (1.2 liters/hectare) to 2 pints/acre (2.4 liters/hectare)	Apply between 45 to 120 days after planting and 45 to 120 days after harvesting.	2 pints/acre (2.4 liters/hectare) per application
SUDAN GRASS[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: applied at or slightly before onset of rapid growth during vegetative stages. 2 <sup>nd</sup> application: applied at boot stage to flowering.	1 pint/acre (1.2 liters/hectare) per application
SUNFLOWERS[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Application: 1 to 2 weeks before flowering. Applications may extend into the reproductive stages.	1 pint/acre (1.2 liters/hectare) per application

SWEET POTATOES[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1st application: at tuber set. The time of application is determined by pulling an average size plant in the field 4 weeks (and every 7 days thereafter if necessary) after planting. Observe the roots to see if tubers are forming. Anytime you see the small tubers forming, it is time for the 1st application. Tubers usually start to set 5 to 6 weeks after planting. 2nd application: (approximately 2 to 3 weeks after tuber initiation).	1 pint/acre (1.2 liters/hectare) per application
TOBACCO[*] (such as: burley[*], flue-cured[*])	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	Begin at the 3-5 leaf stage and then at 10-14 day intervals. Applications may extend into the reproductive stages.	1 pint/acre (1.2 liters/hectare) per application
TRITICALE[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: during tillering. 2 <sup>nd</sup> application: from early boot up to flowering.	1 pint/acre (1.2 liters/hectare) per application
WHEAT[*] (such as: winter wheat[*], spring wheat[*], durum 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
YAMS[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1st application: at tuber set. The time of application is determined by pulling an average size plant in the field 4 weeks (and every 7 days thereafter if necessary) after planting. Observe the roots to see if tubers are forming. Anytime you see the small tubers forming, it is time for the 1st application. Tubers usually start to set 5 to 6 weeks after planting. 2nd application: (approximately 2 to 3 weeks after tuber initiation).	1 pint/acre (1.2 liters/hectare) per application

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### GRASS, FORAGE, TURF

CROP	USE RATE	APPLICATION	MAXIMUM APPLICATION RATES
CLOVER[*][*] (such as: alsike clover[*], crimson clover[*], ladino clover[*], red clover[*], white clover[*])	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	At spring green up with repeat applications within 7 days after cutting each, with repeat sprays at 14 to 21 day intervals.	1 pint/acre (1.2 liters/hectare) per application
GRASS SEED CROPS[*] (such as: bermudagrass[*], bluegrass[*], fescue[*], ryegrass[*], tall fescue[*], timothy[*], zoysia[*])	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1 <sup>st</sup> application: 4 to 8 inch (10 to 20 cm stage). 2 <sup>nd</sup> application: at early bloom.	1 pint/acre (1.2 liters/hectare) per application
[LAWN, TURF, GOLF COURSE[*] (such as: bentgrass[*], bermudagrass[*], bluegrass[*], fescue[*], centipede grass[*], St. Augustine grass[*], zoysia[*])]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	To promote tillering: 8 fl. Oz./acre (0.6 liters/hectare) per application To alleviate stress caused by high temperatures: 8 fl. Oz./acre (0.6 liters/hectare) to 1 pint per acre (1.2 liters/hectare) per application to promote tillering:	1 pint/acre (1.2 liters/hectare) per application
ORNAMENTAL TREES[*] AND HERBACEOUS PLANTS[*]	<u>1.0 to 2.0 pints/acre</u> <u>(1.2 to 2.4 liters/hectare)</u>	<u>Apply 2 pints per acre (2.4 liters/hectare) in transplant water.</u> <u>Apply 1 pint per acre (1.2 liters/hectare) as a foliar spray when growth begins in the early spring.</u> <u>Apply 1 pint per acre (1.2 liters/hectare) at bud burst. Apply 1 pint per acre (1.2 liters/hectare) at bud set. Apply 1 pint per acre (1.2 liters/hectare) at the end of summer to maintain color through autumn.</u>	2 pints/acre (2.4 liters/hectare) per application

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CROP	USE RATE	APPLICATION	MAXIMUM APPLICATION RATES
HEMP[*]	0.5 to 1 pint/acre (0.6 to 1.2 liters/hectare)	1st application: at bud formation. 2nd application: 2 to 3 weeks after 1st spraying. Applications may extend into the reproductive stages.	1 pint/acre (1.2 liters/hectare) per application

### 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 X-CYTE in equal amounts of water and mist spray on seed. X-CYTE can be poured on or mixed with the seed in the hopper at planting.

[\*Not for Use in California]

### 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. 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.

### Manufactured by:

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