



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

September 29, 2021

Ms. Jamie Guillory
Consultant
Stoller Enterprises, Inc.
c/o Spring Regulatory Sciences
6620 Cypresswood Dr., Suite 250
Spring, Texas 77379

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Revision to product name to include registered rather than trademark symbol; changing g/pint to mg/fluid (Ingredient section); updating Guaranteed Analysis section to include Nitrogen; updating Net Contents and Net Weight sections; adding additional marketing claims; updating First Aid Statement; User Safety Recommendations; General Use Instructions; and Storage and Disposal sections; and grammatical revisions.
Product Name: X-Tra Power Premier
EPA Registration Number: 57538-69
Application Date: 05/19/2021
OPP Submission Number: 1070086
OPP Case Number: 00302805

Dear Ms. Guillory:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), 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.

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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 the U.S. Environmental Protection Agency (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 false or misleading statements or claims substantially differing from the EPA-approved 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 any questions, please contact Nina Naimy via email at naimy.nina@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "James Parker", with a long, sweeping underline.

James Parker, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

Enclosure

ACCEPTED

Sep 29, 2021

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 57538-69

[Denotes Optional Text]
{Denotes Notes to Review}
{Front Panel start}

X-TRA POWER® PREMIER

[A Plant Growth Regulator and Yield Stimulant]

ACTIVE INGREDIENT:

Cytokinin(as kinetin).....	0.0075%
INERT INGREDIENTS.....	99.9925%
TOTAL.....	100.00%

Contains [2.7 mg of Cytokinin per fluid ounce]
[92.0 µg Cytokinin/ml]
[0.092 mg Cytokinin/ml]

CONTAINS NON-PLANT FOOD INGREDIENT:
0.0075% Cytokinin

GUARANTEED ANALYSIS

Total Nitrogen (N).....	3.0%
3.0% water-soluble nitrogen	
Magnesium (Mg).....	0.80%
0.80% chelated magnesium	
Copper (Cu).....	0.80%
0.80% chelated copper	
Manganese (Mn).....	0.80%
0.80% chelated manganese	
Zinc (Zn).....	3.20%
3.20% chelated zinc	

(Derived from magnesium EAHP, copper EAHP, manganese EAHP, zinc EAHP)

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html>

[F2399]

KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional Precautionary Statements [inside booklet] [on [back panel] [side panel] [other panel]].

[Z-XTRAPREMIER]

EPA Reg. No. 57538-69

EPA Est. No. [□57538-TX-2]
[□57538-FL-1]
[□57538-IA-1]

[DENSITY: 10.2 lb/gal or 1.23 kg/L]

NET CONTENTS:

1 Gal (3.8 L) 2.5 Gal (9.5 L) 5 Gal (19 L) 55 Gal (209 L)

[NET WEIGHT:]

10.2 lb (4.6 kg) 25.5 lb (11.5 kg) 51.0 lb (23.1 kg) 561.0 lb (254.4 kg)]

[Lot Number:]

[Manufacture Date:]

[Best if used by:]

[Rev: 21E17 {revision code for each label change will go here}]

[1.0 Quart (0.95 L) 2.6 lb (1.2 kg)]

[30 Gal (114 L) 306.0 lb (138.7 kg)]

[275 Gal (1045 L) 2805.0 lb (1272.1 kg)]

[*Not for use in California] – Add as needed

[Patents: www.stollerusa.com/about/patents/]

{End Front Panel}

{Optional labeling claims}

[X-Tra Power® Premier supplies micronutrients and cytokinin essential for optimum plant growth and development. It can be applied in-furrow, foliar, or through irrigation to support nutritional needs and help plants maintain proper hormone balance.

[Promotes plant vigor during early stages of plant development]

[Increases seedling uniformity]

[Reduces early plant stress]

[Promotes uniform seed production]

[Enhances root growth and stem/stalk diameter]

[Mixes with most fertilizers]

[Mixes with most pesticides]

[Is water soluble and will be taken up by the plant roots and seed without phytotoxicity when used as directed]

[Preconditions the crop to better tolerate adverse weather conditions such as cold and hot weather, drought and flooded conditions when used as directed]

[Allows a variety of applications including in-furrow, 2x2 application, foliar, drip irrigation, overhead irrigation and sidedress solutions]

[Is formulated to enhance root growth and seedling vigor]

[Contains micronutrients to aid deficient soils]

[Helps with phosphate uptake and utilization]

[Jump-starts germination and drives roots into the soil]

[Provides the right nutrient package for the vegetative growth of plants]

[Contains a ratio of nutrients designed to promote the hormonal balance of young plants, which increases early root development and plant vigor]

[Up-regulates key genes associated with phosphate uptake and enhances its utilization]

[Corrects deficiencies of micronutrients essential for early plant growth]

[Gets the right nutrients to the right place at the right time to give plants the power they need for healthy, vigorous growth, improved quality and increased yield]

[Enhances root growth, seedling vigor and reproductive growth, setting the stage for higher yield potential]

[A unique formulation of magnesium, manganese, copper and zinc with growth supporting co-factors]

[When used in early foliar stages in corn, provides critical components to enhance development and number of kernel rows]

FIRST AID	
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 swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or a doctor. • Do not give anything by mouth to an unconscious person.
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 by mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice.
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.
HOT LINE NUMBER	
-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 Pesticide Information Center at 1-800-858-7378. -For emergencies, call the Poison Control Network at 1-800-222-1222.	
FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call CHEMTREC at 1-800-424-9300.	

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 Environmental Protection Agency (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 and,
- shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. 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.

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 (WPS), 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 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 and,
- 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, 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.

[*Not for use in California]

- A. Center Pivot, Traveler, Big Gun, 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 continuously agitated, 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 ensure 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.

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.

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:
 - a. 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.
 - b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
 - c. 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.
 - d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
 - e. 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.
 - 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 X-Tra Power® Premier 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-Tra Power® Premier with sufficient water to penetrate into the root zone without excessive leaching into deeper soil.

[*Not for use in California]

GENERAL USE INSTRUCTIONS

X-Tra Power® Premier provides plant essential nutrients zinc, manganese, magnesium, and copper. X-Tra Power® Premier is formulated for efficient uptake by root and leaf tissues of the plant. Mix X-Tra Power® Premier with enough water to get thorough coverage of plant surfaces. X-Tra Power® Premier is compatible with most fertilizer and pesticide materials, but always conduct a jar test when using an untried combination to ensure compatibility

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

Use 32 fl. oz./A. of X-Tra Power® Premier (2.4 L/Ha) or 1 part X-Tra Power® Premier to 1000 parts water as a root dip and watering solution when transplanting.

Use 32 fl. oz./A of X-Tra Power® Premier (2.4 L/Ha) applied to the seedbed at time of seeding or up to 20 days thereafter.

[*Not for use in California]

DILUTION:

For applications by ground application equipment dilute recommended rate of X-Tra Power® Premier in a minimum of 10 gal (38 L) of water or spray solution, for low volume aerial applications dilute recommended rate in a minimum of 2 gal (8 L) of water or spray solution.

MIXING INSTRUCTIONS: Follow this mixing order - (1) Water (2) X-Tra Power® Premier (3) Pesticide. X-Tra Power® Premier will disperse in water with little agitation. X-Tra Power® Premier is compatible with most fertilizers and pesticides. Always conduct a jar test when using new or untried combinations. The addition of 0.5% (total solution) of nitrogen solution, ammonium sulfate, or low biuret urea may aid leaf absorption.

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.

[*Not for use in California]

COMMERCIAL AGRICULTURE-APPLICATION RATES

TREE NUT AND TREE FRUIT

CROP	USE RATE	APPLICATION	MAXIMUM APPLICATION RATES
ALMONDS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: pre-bloom. 2 nd application: at calyx (petal fall). 3 rd application: 14-21 days after 2 nd spraying. 4 th application: 21-28 days after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
APPLE[*], PEAR[*]	16-32 fl. oz./A (1.2 to 2.4 L/Ha)	1 st application: at full pink flower bud. 2 nd application: at calyx (petal fall). 3 rd application: 3 weeks after 2 nd spraying. 4 th application: 4 weeks after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
AVOCADOS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: pre-bloom. 2 nd application: at calyx (petal fall).	64 fl. oz./A (4.8 L/Ha) per application;

		3 rd application: 3 weeks after 2 nd spraying. 4 th application: 4 weeks after 3 rd spraying.	128 fl. oz./A (9.6 L/Ha) per year
BANANAS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	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.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
CASHEWS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: pre-bloom. 2 nd application: at calyx (petal fall). 3 rd application: 14-21 days after 2 nd spraying. 4 th application: 21-28 days after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
CHERRY[*], PRUNES[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: at full pink flower bud. 2 nd application: at calyx (petal fall). 3 rd application: 3 weeks after 2 nd spraying. 4 th application: 4 weeks after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
CHESTNUTS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: pre-bloom. 2 nd application: at calyx (petal fall). 3 rd application: 14-21 days after 2 nd spraying. 4 th application: 21-28 days after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
CITRUS CROPS[*] (grapefruit[*], lemons[*], limes[*], oranges[*], tangelos[*], tangerines[*], etc[*])	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: pre-bloom. 2 nd application: at calyx (petal fall). 3 rd application: 3 weeks after 2 nd spraying. 4 th application: 4 weeks after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
FIGS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: at full pink flower bud. 2 nd application: at calyx (petal fall). 3 rd application: 3 weeks after 2 nd spraying. 4 th application: 4 weeks after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
HAZELNUT[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: pre-bloom. 2 nd application: at calyx (petal fall). 3 rd application: 14-21 days after 2 nd spraying. 4 th application: 21-28 days after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
MACADAMIAS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: pre-bloom. 2 nd application: at calyx (petal fall). 3 rd application: 14-21 days after 2 nd spraying. 4 th application: 21-28 days after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
MANGOES[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: pre-bloom. 2 nd application: at calyx (petal fall).	64 fl. oz./A (4.8 L/Ha) per application;

		3 rd application: 3 weeks after 2 nd spraying. 4 th application: 4 weeks after 3 rd spraying.	128 fl. oz./A (9.6 L/Ha) per year
OLIVES[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	Every 7 to 21 days from bud break through harvest.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
PEACHES[*], NECTARINES[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: at pre-bloom. 2 nd application: at calyx (petal fall). 3 rd application: 3 weeks after 2 nd spraying. 4 th application: 4 weeks after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
PECANS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: pre-bloom. 2 nd application: at calyx (petal fall). 3 rd application: 14-21 days after 2 nd spraying. 4 th application: 21-28 days after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
PISTACHIOS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: pre-bloom. 2 nd application: at calyx (petal fall). 3 rd application: 14-21 days after 2 nd spraying. 4 th application: 21-28 days after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
POMEGRANATES[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	Every 7 to 21 days from bud break through harvest.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
QUINCE[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: pre-bloom. 2 nd application: at calyx (petal fall). 3 rd application: 3 weeks after 2 nd spraying. 4 th application: 4 weeks after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
WALNUTS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: pre-bloom. 2 nd application: at calyx (petal fall). 3 rd application: 14-21 days after 2 nd spraying. 4 th application: 21-28 days after 3 rd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year

[*Not for use in California]

FRUIT AND VEGETABLE CROPS

CROP	USE RATE	APPLICATION	MAXIMUM APPLICATION RATES
ARTICHOKES (GLOBE) [*]	16-32 fl. oz./A (1.2 to 2.4 L/Ha)	1 st application: spray crowns when growth begins. 2 nd application: spray crowns after each cutting.	64 fl. oz./A (4.8 L/Ha)) per application; 128 fl. oz./A (9.6 L/Ha)) per year
ASPARAGUS[*]	16-32 fl. oz./A (1.2 to 2.4 L/Ha)	1 st application: spray crowns when growth begins. 2 nd application: spray crowns after each cutting.	64 fl. oz./A (4.8 L/Ha)) per application; 128 fl. oz./A (9.6L/Ha) per year
BERRIES[*] (blackberries[*], boysenberries[*], dewberries[*], loganberries[*], blueberries[*], gooseberries[*], huckleberries[*], raspberries[*], currants[*], etc[*])	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: just prior to 1 st bloom. 2 nd application: 10 days after 1 st spraying. 3 rd application: 10 days after 2 nd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
CARROTS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: at tuber initiation. 2 nd application: 14-21 days after first spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
CELERY[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	Application: Use 16 fl. oz. /A (1.2 L/Ha) within 7 days after transplanting, repeat applications may be made 10 to 21 day intervals	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
CRUCIFEROUS CROPS[*] (broccoli[*], brussels sprouts[*], cabbage[*], cauliflower[*], collards[*], kale[*], mustard greens[*], rutabagas[*], turnips[*]etc[*])	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: 3 to 4-inch stage. Repeat at 10 to 14 day intervals.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year

CUCURBITS[*] (cantaloupe[*], cucumbers[*], honeydew[*], melons[*], muskmelon[*], pumpkins[*],squash[*] ,watermelon[*],etc[*])	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: 20-30 days after planting. 2 nd application: at early bloom. 3 rd application: start of fruit development.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
EGGPLANT[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: just prior to 1 st bloom. 2 nd application: 10 days after 1 st spraying. 3 rd application: 10 days after 2 nd spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
FLAX[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: just prior to 1 st bloom. 2 nd application: 10 days after 1 st spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
GRAPES[*], wine Grapes[*] table Grapes[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: between leaf-out and pre-bloom. 2 nd application: at calyx (petal fall). 3 rd application: 30 days before harvest.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
LETTUCE[*] (head[*] and leaf[*])	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	Application: 21-28 days after planting or 7-14 days after transplanting.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
OKRA[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: spray crowns when growth begins. 2 nd application: spray crowns after each cutting.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
ONIONS[*], GARLIC[*], DRY ONIONS[*], DRY SHALLOTS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: 7-14 days after transplanting, with repeat applications every 14-21 days up to harvest.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
PARSLEY[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	Application during vegetative growth.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
PEAS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	May apply in furrow at planting. Foliar applications: 1 st application: 3 to 4-inch stage. 2 nd application: Pre-bloom. 3 rd application: at early pod set.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
PEPPERS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: just prior to 1 st bloom. 2 nd application: 10 days after 1 st spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A

		3 rd application: 10 days after 2 nd spraying.	(9.6 L/Ha) per year
PINEAPPLE[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	To reduce plant stress: Apply to vegetative growth according to climate and crop needs at the site of proposed application. To improve fruit growth: Apply post bloom according to climate and crop needs at the site of proposed application. Allow at least 14 days between applications.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
SPEARMINT[*], PEPPERMINT[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: just prior to 1 st bloom. 2 nd application: 10 days after 1 st spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
SPINACH[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	Application: 21-28 days after planting or 7-14 days after transplanting.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
STRAWBERRIES[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	Application: Starting 7-14 days after planting or pre-bloom, with repeat applications made every 10-14 days.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
TOMATOES[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: 7-14 days after transplanting. 2 nd application: 14-21 days after 1 st spray. 3 rd application: 14-21 days after 1 st bloom.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year

[*Not for use in California]

ROW CROPS

CROP	USE RATE	APPLICATION	MAXIMUM APPLICATION RATES
ALFALFA[*] including seed alfalfa	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	At spring green up with repeat applications within 7 days after cutting each, with repeat sprays at 14 to 21 day intervals.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
BEANS CROPS[*] (dry[*], colored[*], green[*], snap[*], lima[*], lentils[*], etc[*])	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	May apply in furrow at planting. Foliar Applications: 1 st application: 4-5 inch stage. 2 nd application: at early bloom. 3 rd application: at early pod set.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
BARLEY[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: 14-21 days after planting.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A

		2 nd application: Late tiller stage. Repeat applications may be made every 14-21 days through heading.	(9.6 L/Ha) per year
BEETS[*] (sugar beets[*], table beets[*],etc[*])	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: at tuber initiation. 2 nd application: 2-3 weeks after 1 st spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
CANOLA[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	May apply in furrow at planting. Application: Apply 14-21 days after planting, with repeat application every 7-14 days	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
CORN[*],	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	May apply in furrow at planting. Foliar applications: 1 st application: At V3-V5 growth stage. 2 nd application: 10-14 days pre tassel or post tassel at R2 plant development stage.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
COTTON[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	May apply in furrow at planting. Foliar applications: 1 st application: 30-40 days after planting with repeat applications at 14 to 21 day intervals.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
HEMP[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	May apply in furrow at planting. 1 st application: 3-4 leaf growth stage. 2 nd application: at bud stage.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
HOPS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: 14-21 days after planting or for fall planted crops apply at spring green up. 2 nd application: Late tiller stage. With repeat applications made every 14-21 days through heading.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
OATS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: Late tiller growth stage 2 nd application: Late boot stage to flag leaf stage.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
PEANUTS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	May apply in furrow at planting. Foliar Applications: 1 st application: at pegging, with repeat applications made every 10-14 day intervals continuing up to 20-30 days pre-harvest.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
POTATOES[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: at tuber set (5-6 weeks after planting). 2 nd application: at full blossom (14-21 days after 1 st application)	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
RICE[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: at 2 to 5 leaf stage with repeat application 14 to 21 days after.	64 fl. oz./A

			(4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
RYE[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: 14-21 days after planting or for fall planted crops apply at spring green up. 2 nd application: Late tiller stage. With repeat applications made every 14-21 days through heading.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
SORGHUM[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	May apply in furrow at planting. Foliar applications: 1 st application: At V3-V5 growth stage. 2 nd application: 10-14 days pre tassel or post tassel at R2 plant development stage.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
SOYBEANS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	May apply in furrow at planting. Foliar Application: Apply beginning at V3 growth stage, with repeat application every 14-21 days up to R5.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
SUGAR CANE[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	May apply in furrow at planting. 1 st application: 3-4 leaf growth stage.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
SUNFLOWERS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	May apply in furrow at planting. 1 st application: 3-4 leaf growth stage. 2 nd application: at bud stage. 3 rd application: at flowering	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
SWEET POTATOES[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: at tuber set (5-6 weeks after planting). 2 nd application: at full blossom (14-21 days after 1 st application)	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
WHEAT[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: 14-21 days after planting or for fall planted crops apply at spring green up. 2 nd application: Late tiller stage. With repeat applications made every 14-21 days through heading.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year

[*Not for use in California]

GRASS, FORAGE, and ORNAMENTALS

CROP	USE RATE	APPLICATION	MAXIMUM APPLICATION RATES
CLOVER[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: just prior to 1 st bloom. 2 nd application: 10 days after 1 st spraying.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
GRASS SEED CROPS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	1 st application: 14-21 days after planting or for fall planted crops apply at spring green up. 2 nd application: Late tiller stage. With repeat applications made every 14-21 days through heading.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year
ORNAMENTAL TREES[*] AND HERBACEOUS PLANTS[*]	16-32 fl. oz. /A (1.2 to 2.4 L/Ha)	Apply 32 fl. oz./A (2.4 L/Ha) as a foliar spray when growth begins in the early spring. Apply 32 fl. oz./A (2.4 L/Ha) at the end of summer to maintain color through autumn and aid in winter survival.	64 fl. oz./A (4.8 L/Ha) per application; 128 fl. oz./A (9.6 L/Ha) per year

[*Not for use in California]

STORAGE AND DISPOSAL

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

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

Nonrefillable container equal to or less than 5 gallons (19 Liters). 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 the container $\frac{1}{4}$ full with water and recap. 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 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 (19 Liters). 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 rinsate into application equipment or a mix tank or store rinsate 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.

WARRANTY

To the fullest extent permitted by law, neither the manufacturer nor the seller makes 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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