



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

69361-53

Date of Issuance:

9/11/2019

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Homobrassinolide 0.04%

Name and Address of Registrant (include ZIP Code):

Repar Corporation
P.O. Box 4321
Silver Spring, MD 20914

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.
2. Make the following labeling change before you release this product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 69361-53."

Signature of Approving Official:

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

Date:

9/11/2019

3. Make the following labeling change before you release this product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 69361-53.”
4. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

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 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. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 12/07/2018

Any CSFs other than those listed above are superseded.

If you have any questions, please contact Cheryl Greene by phone at (703) 308-0352 or via email at greene.cheryl@epa.gov.

Sincerely,



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

Enclosure



HOMOBRASSINOLIDE 0.04%*
PLANT GROWTH REGULATOR

ACTIVE INGREDIENT:

Homobrassinolide.....0.04%

OTHER INGREDIENTS:.....99.96%

TOTAL.....100.0%

Each fluid ounce of HOMOBRASSINOLIDE 0.04% contains approximately 0.012 gram of active ingredient

* **Alternate Brand Names: HBR 0.04%; DOUBLE**

KEEP OUT OF REACH OF CHILDREN

CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (if you do not understand the label, find someone to explain it to you in detail)

FIRST AID

If swallowed

- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.
- Call a poison control center or doctor for treatment advice.

If on skin or clothing

- 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.

Have a product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call the Pesticide Control Center at 1-800-222-1212 - 24 hours a day for

Note to Physician: No specific antidote. Treat symptomatically.

Symptoms of Poisoning: The compound does not cause any definite symptoms that would be diagnostic.

For chemical emergency: spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300

For Product Use Information Call 1-866-248-7426

Manufactured for:

Repar Corporation

P.O. Box 4321

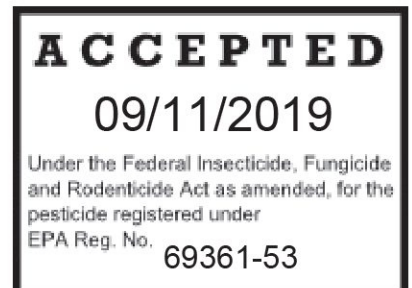
Silver Spring, MD 20914

Tel: (301) 562- 7330

EPA Reg. No.
69361-

EPA Est. No.

NET CONTENTS: 1 QT 1/2 GAL 1 GAL



HOMOBRASSINOLIDE 0.04%*

PLANT GROWTH REGULATOR

FOR USE ON CEREALS, FIELD CROPS, FRUIT AND NUT TREES, OILSEEDS,
ORNAMENTALS, VEGETABLES

Homobrassinolide 0.04% is recommended as foliar spray for most agricultural and horticultural crops such as :

- **Root and Tuber Vegetables: Potato, Artichoke, Sweet Potato, Yam, Seed Potato, and Sugar Beet**
- **Bulb Vegetables: Onion**
- **Leafy Greens: Celery, Lettuce for Seed, Rhubarb, and Spinach**
- **Brassica Leafy Vegetables: Cabbage and Cauliflower**
- **Legume Vegetables: Beans, Pea, and Soybean**
- **Fruiting Vegetables: Tomato, Eggplant, Bell Pepper, Pepper, and Okra**
- **Cucurbit Vegetables: Melon, Cantaloupe, Cucumber, Squash and Watermelon**
- **Citrus Fruits: Orange, Grapefruit, Lemon, Lime, Tangerine and Hybrids**
- **Pome Fruits: Apple and Pear**
- **Stone Fruits: Cherries, Peach, Plum, Apricot and Nectarine**
- **Berries and Small Fruit: Banana, Strawberry, Blueberry and Grapes**
- **Tree Nuts: Almonds and Walnuts**
- **Cereal Grains: Barley, Buckwheat, Corn, Oats, Wheat, Sugar Cane, Rice and Rye**
- **Nongrass Animal Feeds: Lucerne**
- **Oil Seed: Peanut, Rape and Sunflower**
- **Other Crops: Cotton, Hop, Pomegranate, Tea and Tobacco**
- **Ornamentals: Flowering Plants (Perennial, Annual), Non Bearing Young Tart and Sweet Cherry Trees**

Homobrassinolide 0.04% is fully biodegradable, leaves no residues, and is environment friendly.

Homobrassinolide 0.04% contains the active ingredient 'homobrassinolide', a new generation plant growth promoter, which is a natural substance with profound plant growth promoting activity.

The natural plant growth substance present in Homobrassinolide 0.04% improves the physiological and biochemical processes involved in crop growth and development.

Homobrassinolide 0.04% *enhances crop growth and development:*

- Promoting cell division and cell elongation
- Acting synergistically with other endogenous hormones
- Promoting seed germination and increasing early vigor of seedlings
- Increasing photosynthesis and translocation of assimilates to economic plant parts
- Increasing the levels of enzymes responsible for the synthesis of nucleic acids, proteins and sugars
- Imparting stress resistance under adverse environmental conditions
- Inducing flowering, and increasing fruit set and fruit growth
- Increasing quality of produce.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater rinsate.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

Long-sleeved shirt and long pants

Chemical-resistant gloves, such as barrier laminate, or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride or viton

Shoes plus socks

Some materials that are chemical-resistant to this product are listed above. If you want more options, follow the instructions for category C on an EPA chemical-resistance category selection chart.

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

ENGINEERING CONTROLS STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove PPE immediately if pesticide gets inside. Then wash hands thoroughly and put on clean clothing.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI). The REI for each crop is 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride or viton
- Shoes plus socks

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) 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 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.

PRODUCT INFORMATION

Read the entire Directions for Use and Conditions of Sale before using this product.

When applying plant growth regulators, deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixes, may result in undesirable effects. Always consult the State Extension Service Specialist in your area for the spray regimen best suited to your conditions.

- Do not apply to plants under pest, nutritional or water stress.
- Apply a non-ionic surfactant (NIS) at a label rate approved for use on respective crops for all applications of Homobrassinolide 0.04%.
- When a range of rates is indicated, use the concentration and spray volume recommended locally by the State Extension Service Specialist or Repair Corporation representative.
- For optimum effectiveness, thorough spray coverage must be achieved. All parts of the plant or crop must receive the spray or desired results will not occur.
- Prepare solution concentrations by mixing the required amount of product with water in a clean, empty spray tank.
- Do not save unused spray material. Discard any unused spray material at the end of each day following local, state or Federal Law.
- For optimum results, the water pH must be around neutral, and always below 7.0.
- Homobrassinolide 0.04% applications made under slow drying conditions (cool to warm temperatures, medium to high relative humidity and no wind) will increase absorption by the plant, thus optimizing effectiveness. Night time applications are encouraged when day time conditions are not conducive to slow drying conditions.
- Product persistence: Homobrassinolide 0.04% must be reapplied if significant rain occurs within 4 hours of application.
- DO NOT apply if rain is expected before sprays have dried completely. DO NOT use overhead irrigation before sprays have dried.
- DO NOT apply using ULV application method. For aerial applications spray volumes must be greater than 5 gallons per acre (25 gallons per acre for tree crops).
- Homobrassinolide 0.04% can be applied up to 15 days before harvest.

Compatibility:

Homobrassinolide 0.04% is compatible with many pesticides, herbicides, fertilizers and micronutrients. Homobrassinolide 0.04% can be mixed with most common agrochemicals. Dilute Homobrassinolide 0.04% with water separately before mixing the product with other agrochemicals. The pH of the resulting spray solution must be around 6.0. The resulting spray solution must avoid having an alkaline pH.

ROOT AND TUBER VEGETABLES

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	Homobrassinolide 0.04% FL. OZ./ ACRE
Potato	1 st Application: 25 days after sowing	4 to 8.25
	2 nd Application: 10 days after first spray	
COMMENTS: Apply in 50 gallons of water volume per acre.		
Seed Potato	Prior to planting	16.5 to 33.25
COMMENTS: To stimulate uniform sprouting to aid in maximum production, more uniform development, fewer late maturing plants, and to break dormancy of newly harvested potatoes that have not had a full rest period dip whole or cut seed pieces in 100 gallons of water. PRECAUTION: Under high soil temperatures use the minimum concentration for dormant seed. RESTRICTION: Do not treat rested seed.		
Sweet Potato (<i>Ipomoea batata</i> L.)	1 st Application: 35 days after planting (initiation of storage roots) 2 nd Application: 50 days after planting (initiation of bulking of storage roots).	8.25
COMMENTS: Apply in 50 gallons of water volume per acre.		
Perennial Artichokes (<i>Cynara cardunculus</i> var. <i>scolymus</i>) Artichoke, Chinese and Artichoke, Jerusalem	1 st Application: 5 weeks after transplanting 2 nd Application: 7 weeks after transplanting 3 rd Application: 9 weeks after transplanting	16.5
COMMENTS: Apply in 100 gallons of water volume per acre.		
Yam (<i>Dioscorea sp</i>)	1 st Application: at tuber initiation stage 2 nd Application: 3 weeks after 1 st application 3 rd Application: 3 weeks after 2 nd application	8.25
COMMENTS: Apply in 50 gallons of water volume per acre.		

Sugar Beet	1 st application: Spray at 10-13 leaves 2 nd application: Spray 2-3 weeks after 1 st application	8.25 to 16.5
COMMENTS: To increase yield and sugar content apply in sufficient water volume for thorough coverage of all exposed foliage.		
COMMENTS: Apply in 50 gallons of water volume per acre.		

BULB VEGETABLES

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% AND OTHER PGR FL. OZ./ ACRE
Onion	30 days after sowing 1 st application may be at bulb initiation stage when there are 8-12 leaves per plant 2 nd application may be at 2 weeks after first application	8.25 to 16.5 Homobrassinolide 0.04% 132.0 NAA
COMMENTS: Apply in 50 gallons of water volume per acre. (Naphthalene acetic acid (NAA) is tank mixed)		

LEAFY GREENS

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% FL. OZ./ ACRE
Celery	1-4 weeks prior to harvest	8.25 to 16.5
COMMENTS: To increase plant height and yield and overcome stress due to cold weather conditions or saline soils, and to obtain earlier maturity apply using 25 to 50 gallons per acre by ground application or 5 to 10 gallons per acre for aerial application. Use lower concentrations applying 3 to 4 weeks before harvest and higher concentrations within 1 to 2 weeks before harvest.		
RESTRICTIONS: Do not apply by air in California. Do not apply earlier than 4 weeks before harvest as bolting (seed stalk formation) may occur.		

Lettuce For Seed	1 st -4 th Application: Apply at 2 week intervals, beginning at the fourth true leaf	8.25 to 16.5
COMMENTS: To obtain uniform bolting and increase seed production apply in sufficient water volume to insure thorough wetting.		

Rhubarb	1 st Application: When the rest period is not completely broken	8.25 to 16.5
	2 nd Application: When the rest period is broken by cold weather	
<p>COMMENTS: To break dormancy on plants receiving insufficient chilling and to increase yield of forced rhubarb apply 2 fluid ounces of solution prepared in 10 gallons of water to each cleaned crown.</p> <p>PRECAUTION: Keep forcing house temperatures at 40°F to 50°F for 25 hours after application. If house is warmer than 50°F, the crowns should be covered with plastic. Temperatures in the forcing house above 50°F may lower yields and cause poor stalk color.</p>		

Spinach	10 to 18 days before each anticipated harvest on fall or over-winter spinach, ideally when daytime temperatures are 40°F to 70°F and during early morning hours when dew is present on crop	8.25 to 16.5
<p>COMMENTS: Do not apply on spring plantings. To facilitate harvest, increase yield and improve quality of fall and over-winter spinach apply in 10 to 50 gallons by ground sprayer use only water for spray. When applied to promote growth of second cutting, wait until some regrowth has started before spraying. Maximum benefit is obtained when below normal temperatures predominate following application and growth would be otherwise slowed in untreated spinach.</p> <p>RESTRICTIONS: Since the promotion of bolting may occur, do not apply after the mid-winter period or if temperatures may be expected to exceed 75⁰F within several days of application.</p>		

BRASSICA LEAFY VEGETABLES

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% FL. OZ./ ACRE
Cabbage/ Cauliflower	1 st Application: 3 to 5 days after head initiation	8.25 to 16.5
	2 nd Application: 10 days after first spray	
<p>COMMENTS: Apply in 50 gallons of water volume per acre.</p>		

LEGUME VEGETABLES

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% FL. OZ./ ACRE
Bean (<i>Phaseolus</i>)	Spray 45 days after sowing	8.25 to 16.5
<p>COMMENTS: To increase yield apply in sufficient water volume for thorough coverage of all exposed foliage.</p>		

Bean(<i>Lupine</i>)	Spraying at flowering	8.25 to 16.5
COMMENTS: To increase protein content apply in sufficient water volume for thorough coverage of all exposed foliage.		

Pea	1 st Application: Spraying at bushing	8.25 to 16.5 /application
	2 nd Application: Spraying at budding	
COMMENTS: To increase yield apply in sufficient water volume for thorough coverage of all exposed foliage.		

FRUITING VEGETABLES

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% FL. OZ./ ACRE
Tomato, Eggplant, Bell Pepper, Pepper, Okra, etc...	1 st Application: at initiation of reproductive stage	8.25 to 16.5
	2 nd Application: 10-15 days after first application	
	3 rd Application: 10-15 days after second application	
COMMENTS: Apply in 50 gallons of water volume per acre.		

CUCURBIT VEGETABLES

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% FL. OZ./ ACRE
Melon, Cantaloupe, Cucumber, Squash(Summer, Winter), Watermelon	1 st Application: floral bud initiation stage	8.25 to 16.5 /application
	2 nd Application: 10 days after 1 st application at fruit formation stage.	
COMMENTS: To increase yield apply in sufficient water volume for thorough coverage of all exposed foliage.		

CITRUS FRUITS

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% AND OTHER PGR FL. OZ./ ACRE
Orange (<i>Valencia, Navel, Sweet Orange, Mandarin, Other Round</i>) Grapefruit including <i>Star Ruby Red, Lemon, Lime, Tangerine Hybrids</i>	1 st Application: spray at budding stage	16.5 to 33.25 Homobrassinolide 0.04% + 148.5 GA
	2 nd Application: spray when fruits are of marble size	
COMMENTS: Apply in 100 gallons of water volume per acre. (Gibberellic acid (GA) is tank mixed)		

POME FRUITS

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% AND OTHER PGR FL. OZ./ ACRE
Apple	1 st Application: Spray at anthesis	16.5 to 33.25 Homobrassinolide 0.04% + 66.0 GA + 66.0 BA/application
	2 nd Application: Spray 10-15 days after 1 st application (Gibberellic acid (GA) and Benzyl adenine (BA) are tank mixed)	
COMMENTS: Apply in 100 gallons of water volume per acre.		

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% AND OTHER PGR FL. OZ./ ACRE
Pears	1 st Application: Spray at anthesis	16.5 to 33.25 Homobrassinolide 0.04% + 66.0 GA + 66.0 BA/application
	2 nd Application: Spray 14 days after 1 st application (Gibberellic acid (GA) and Benzyl adenine (BA) are tank mixed)	
COMMENTS: Apply in 50 gallons of water volume per acre.		

STONE FRUITS

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% FL. OZ./ ACRE
Cherries (<i>Sweet, Red Tart</i>)	1 st Application: floral bud initiation stage	8.25 to 16.5
	2 st Application: at the beginning of fruit coloring, when cherries are translucent to straw colored	
	3 nd Application: 10-15 days later if coloring is uneven due to extended bloom as needed	
COMMENTS: To enhance ripening (color and sugar), apply in 100 gallons of water volume per acre. If it is necessary to change water volume, adjust the rate of Homobrassinolide 0.04% accordingly to keep the concentration of Homobrassinolide 0.04% to water volume the same.		

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% AND OTHER PGR FL. OZ./ ACRE
Pears	1 st Application: Spray at anthesis	8.25 Homobrassinolide 0.04% + 66.0 GA + 66.0 BA/application
	2 nd Application: Spray 14 days after 1 st application (Gibberellic acid (GA) and Benzyl adenine (BA) are tank mixed)	
COMMENTS: Apply in 50 gallons of water volume per acre.		

BERRIES AND SMALL FRUIT

Banana (<i>Dwarf, Cavendish</i>),	1 st Application: Spray on fruit bunches at shooting stage	8.25 to 16.5 Homobrassinolide 0.04% + 66.0 GA /application
	2 nd Application: Spray 15 days after 1 st spray	
COMMENTS: Apply in 50 gallons of water volume per acre. (Gibberellic acid (GA) is tank mixed)		

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% AND OTHER PGR FL. OZ./ ACRE
Strawberry	1st Application: Balloon stage of inflorescence	8.25 to 16.5
	2nd Application: Flower fading stage	

Blueberry (Highbush, Rabbiteye)	1st Application: At early bloom stage	8.25 to 16.5
	2nd Application: Petal fall stage	

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% AND OTHER PGR FL. OZ./ ACRE
Table Grapes	1 st Application: One week after berry set	16.5 to 33.25 Homobrassinolide 0.04% + 3.3 to 6.6 GA
	2 nd Application: 10-15 days after the first application	
	3 rd Application: if desired could be made one week after 2 nd spray	
Wine Grapes	1 st Application: during late bloom before berry set	
	2 nd Application: 10-15 days after 1 st spray (after berry set)	
	3 rd Application: If coloring is uneven following extended bloom, a third application, if desired, could be made two weeks after second spray	
COMMENTS: To enhance uniform ripening, increase berry diameter, and obtain uniform clusters apply in 100 gallons of water volume per acre. If it is necessary to change water volume, adjust the rate of Homobrassinolide 0.04% accordingly to keep the concentration of Homobrassinolide 0.04% to water volume the same.		

TREE NUTS

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% FL. OZ./ ACRE
Almond	Apply at 90% petal fall (about 4-6mm nutlet length)	16.5 to 33.25 Homobrassinolide 0.04%
	OR	
	Apply at one (1) to two (2) weeks post-petal fall	33.25 to 66.5 Homobrassinolide 0.04%
COMMENTS: To enhance nut set and kernel weight, make one application only in 100 gallons of water volume per acre. If it is necessary to change water volume, adjust the rate of Homobrassinolide 0.04% accordingly to keep the concentration of Homobrassinolide 0.04% to water volume the same.		

Walnut	Apply 10 days after 10% state of pistillate flower receptive	33.25 – 66.5 Homobrassinolide 0.04%
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COMMENTS: To enhance nut set and kernel weight, apply in 100 gallons of water volume per acre. If it is necessary to change water volume, adjust the rate of Homobrassinolide 0.04% accordingly to keep the concentration of Homobrassinolide 0.04% to water volume the same.

CEREAL GRAINS

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% FL. OZ./ ACRE
Barley	1 st Application: At booting stage	8.25 to 16.5
	2 nd Application: 10 days after first application	
COMMENTS: To increase yield apply in sufficient water volume for thorough coverage of all exposed foliage.		

Buckwheat	1 st Application: at flower bud stage	8.25 to 16.5
	2 nd Application: at flowering	
COMMENTS: To increase yield apply in sufficient water volume for thorough coverage of all exposed foliage.		

Corn	1 st Application: at 4-5 true leaves	8.25 to 16.5
	2 nd Application: at emergence of tassel	
COMMENTS: To increase yield and, lysine and tryptophan content apply in sufficient water volume for thorough coverage of all exposed foliage.		

Oats	1 st Application: At booting stage	8.25 to 16.5
	2 nd Application: 10 days after first application	
COMMENTS: To increase yield apply in sufficient water volume for thorough coverage of all exposed foliage.		

Sugar Cane	1 st Application: at germination stage (25 days after planting)	8.25 to 16.5/ application
	2 nd Application: at tillering stage (around 60 days after planting)	
	3 rd Application: grand growth stage (around 150 days after planting)	
	4 th Application: Maturity and Ripening (270-360 days from planting)	
COMMENTS: Apply in 50 to 100 gallons of water volume per acre, depending on requirement. Application at germination stage may be made to improve seedling growth, at tillering stage to improve cane density, at grand growth stage to improve cane elongation, and at maturity and ripening stage for increasing sugar content.		

Wheat	1 st Application: at booting stage	16.5 to 33.25
	2 nd Application: 10 days after first application	
COMMENTS: Apply in 50 gallons of water volume per acre.		

Rice	1 st Application: At booting stage	8.25 to 16.5
	2 nd Application: 10 days after first spray	
COMMENTS: Apply in 50 gallons of water volume per acre for lengthy panicles, enhanced pollen germination and fertilization, reduced chaffiness, more filled spikelets per spike, heavier grains, and reduced electrolyte leakage.		

Rye	1 st Application: At booting stage	8.25 to 16.5
	2 nd Application: 10 days after first spray	
COMMENTS: To increase yield apply in sufficient water volume for thorough coverage of all exposed foliage.		

NONGRASS ANIMAL FEEDS

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% FL. OZ./ ACRE
Lucerne	1 st Application: Spraying at bushing	16.5 to 33.25
	2 nd Application: Spraying at flowering	
COMMENTS: To increase number of clusters per square inch and number of seeds per pod apply in sufficient water volume for thorough coverage of all exposed foliage.		

OIL SEED

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% AND OTHER PGR FL. OZ./ ACRE
Peanut	1st Application: at floral bud initiation stage	8.25 to 16.5
	2nd Application: 10-15 days after first spray	
COMMENTS: Apply in 50 gallons of water volume per acre.		

Rape		8.25 to 16.5
COMMENTS: To decrease frost injury, apply in sufficient water volume for thorough coverage of all exposed foliage. Apply 2-3 days before frost is expected.		

Soybean	1 st Application: At the time of floral bud initiation	8.25 to 16.5 /application
	2 nd Application: 10 – 15 days after first spray	
COMMENTS: Apply in 50 gallons of water volume per acre for more floral buds, more flowers, enhanced pollination and fertilization, higher setting of seeds/pods, more pods per plant.		

Sunflower	1 st Application: at floral bud initiation stage	8.25 to 16.5
	2 nd Application: 10-15 days after 1 st application	
COMMENTS: Apply in 50 gallons of water volume per acre.		

OTHER

APPLICATION DIRECTIONS		
CROP	GROWTH STAGE	HOMOBRASSINOLIDE 0.04% FL. OZ./ ACRE
Cotton	1 st Application: At initiation of square formation (35-45 days after sowing)	4 to 8.25
	2 nd Application: 10-15 days after first spray	
COMMENTS: Apply in 50 gallons of water volume per acre for more squares, increased pollen germination and enhanced fertilization leading to more bolls per plant, more seeds per boll, bolder seeds, improvement in lint quality (length, strength, texture), higher lint weight per boll, and higher seed cotton yield.		

Hop	When vine growth is 5 to 8 feet in length	33.25 to 66.5
COMMENTS: For seeded and seedless Fuggle hop and similar varieties adapted to the Northwestern states. To increase yield and fruit set apply in 100 to 150 gallons.		

Pomegranate	1 st Application: Spray at bloom stage	8.25 to 16.5
	2 nd Application: Spray at fruit set	
	3 rd Application: Spray 20-25 days after 2 nd spray	
COMMENTS: Apply in 50 gallons of water per acre to increase the numbers of fruits/plant, and to increase diameter of fruits		

Tea	1 st Application: April/May/June	8.25 to 16.5
	2 nd Application: July/August	
	3 rd Application: September/October	
COMMENTS: Apply in 50 gallons of water volume per acre.		

Tobacco	Spraying at budding	8.25 to 16.5
COMMENTS: To increase quality, apply in sufficient water volume for thorough coverage of all exposed foliage.		

ORNAMENTALS

Flowering plants (perennial)	1 st Application: 10 days before initiation of flower buds	8.25
	2 nd Application: At initiation of flower buds	

COMMENTS: Apply in 50 gallons of water volume per acre.

Flowering Plants (Annual)	1 st Application: at initiation of flower bud after transplanting	8.25 to 16.5
	2 nd Application: 10-15 days after 1 st application	
COMMENTS: Apply in 50 gallons of water volume per acre.		

Non Bearing Young Tart and Sweet Cherry Trees	1 st Application: at the time of bloom	16.5 to 33.25
	2 nd Application: Under conditions of low vigor, spray at least 10 days after first application	

RESTRICTION: DO NOT SPRAY TREES IN THE FIRST YEAR.

COMMENTS: To reduce flowering and fruiting in young tart and sweet cherry trees in order to minimize the competitive effect of early fruiting on tree development apply a foliar spray of 50 to 100 gallons per acre, assuming a tree density of 100 trees per acre equivalent.

PRECAUTIONS: Treat in the second season for reduction of flowering in the third season, and again in the third season if flower reduction and fruiting is desired in the fourth season. Treat only trees that are in good physiological condition. Discontinue treatment the year before desired harvest.

* Consult a representative of Repar Corporation or local specialist for technical information or if you have questions.

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