



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:

92697-1

Date of Issuance:

9/9/2019

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

USAG2020

Name and Address of Registrant (include ZIP Code):

Vivid Life Sciences, LLC
2215 YORK ROAD, SUITE 203
OAK BROOK, IL 60523

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. Submit storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) data as these data requirements are not satisfied. A one-year study is required to satisfy these data requirements. You have 18 months from the date of this registration to provide these data to the EPA.

Signature of Approving Official:

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

Date:

9/9/2019

3. Make the following labeling change before you release this product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 92697-1."
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 07/02/2019

Any CSFs other than those listed above are superseded.

If you have any questions, please contact James Parker of my team by phone at (703) 306-0469 or via email at parker.james@epa.gov.

Sincerely,

A handwritten signature in blue ink, reading "Andrew C. Bryceland".

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

Enclosure

Master Label containing:
Sublabel A: Agricultural Seed Treatment Use
Sublabel B: Ornamental, Field, and Nursery Use
Sublabel C: Home & Garden Use

USAG2020

Agricultural, Ornamental, Nursery and Home & Garden Use

[Refer to Accompanying Label Booklet for Complete Use Direction]

ACTIVE INGREDIENT:

Chitosan 0.25%

OTHER INGREDIENTS: 99.75%

Total 100.00%

Product contains 0.021 lb (0.01 kg) for chitosan/gallon

KEEP OUT OF REACH OF CHILDREN

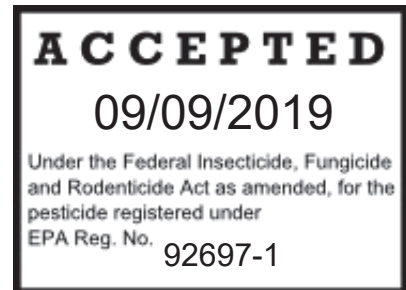
CAUTION

SEE SIDE/INSIDE/BACK PANEL FOR FIRST AID AND PRECAUTIONARY STATEMENTS

EPA Reg. No. 92697-R

EPA Est. No. _____

Manufactured For:
Vivid Life Sciences, LLC
P.O. Box 41632
Minneapolis, MN 55441



USAG2020

Agricultural Use

When used as directed on this label, USAG2020 can boost seed germination and vitality, stimulate emergence and sprouting, enhance plant vigor, promote root growth, promote foliar growth, increase crop yields, improve crop vigor and quality, suppress diseases and pathogens, activate plant resistances to environment stress, drought, and disease pressures, including the suppression of plant parasitic nematodes.

Systemic Induced Resistance and Innate Immunity Protection USAG2020 Protects grasses, grains, cereals, legumes, sugar beets, and vegetables against fungus, mosaic virus, stem wilt, damp-off, early blight, late blight and mold.

For use on corn, canola, soybeans, rice, sugar beets, vegetables, herbs, sunflowers, wheat, grains, cereals, legumes, and flowers.

ACTIVE INGREDIENT:

Chitosan 0.25%

OTHER INGREDIENTS: 99.75%

Total 100.00%

Product contains 0.021 lb (0.01 kg) for chitosan/gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

SEE SIDE/INSIDE/BACK PANEL FOR FIRST AID AND PRECAUTIONARY STATEMENTS

MANUFACTURED FOR:

Vivid Life Sciences, LLC
P.O. Box 41632
Minneapolis, MN 55441

EPA Reg. No. 92697-R
EPA Est. No. _____
Net Contents: _____

| FIRST AID | |
|---|---|
| IF IN EYES: | <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water 15 – 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice. |
| IF ON SKIN OR CLOTHING: | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 – 20 minutes. • Call a poison control center or doctor for treatment advice. |
| IF INHALED: | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. • Call a poison control center or doctor for further treatment advice. |
| Have product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information. | |

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

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 cleaning equipment or disposing of equipment wash waters.

[For 5 gallon product: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless in accordance with the requirements of 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 into sewer without previously notifying the sewage treatment plant authority. For guidance, contact your State Water board or regional Office of the EPA.]

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators, mixers, loaders and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves, protective eyewear, 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.

DIRECTIONS FOR USE

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

To prevent contamination of the dilute solutions of USAG2020 by possible pesticide or other chemical residues in the spraying equipment, use dedicated equipment, or be sure that the equipment is thoroughly clean before use.

For Agricultural Use:

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 |
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| <p>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.</p> |
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| <p>Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.</p> |
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| <p>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:</p> |
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| <ul style="list-style-type: none"> • Coveralls • Waterproof gloves • Protective eyewear, and • Shoes plus socks |
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GENERAL INSTRUCTIONS

Shake before using. Following specific crop instructions for dilution rates and application usage. Do not apply within three days of harvesting. For best results use pH neutral (pH 6.9 to 7.0) mix water.

| Crops | Mixing and Application Instructions |
|---|---|
| <p>Seed Treatment</p> <p>Beans (lima, snap, dry edible, cowpeas, peas), Broccoli, Brussels sprouts, Cabbage, Canola, Cantaloupe, Cauliflower, Corn (field, sweet and pop), Cotton, Cucumber, Eggplants, Flax, Grass grown for seed, Legumes (including alfalfa and clover), Onion, Ornamental flower crops, Peanuts, Safflower, Small grains (including wheat, oats, rye, barley, rice, millet, sorghum, triticale), Pumpkin, Soybeans, Squash, Sugar beet, Sunflowers, Tobacco, Tomato, Turfgrass, Watermelon</p> | <p>For seed treatment, Apply 0.1 fluid ounces of product per 100 lbs. seed.</p> <p>Apply as a water based slurry through standard slurry or mist-type commercial seed treatment equipment.</p> <p>May be applied with other registered seed treatment products if compatibility is known.</p> |
| <p>Seed Piece Treatment</p> <p>Potato Sweet potato</p> | <p>For Seed Piece Treatment Mix 17 fluid ounces of product in 10 gallons of water.</p> <p>Dip tubers in mixture prior to planting.</p> <p>Plant tubers wet or allow to dry.</p> |

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| <p>Peanuts</p> | <p>In-Furrow</p> <p>Apply in-furrow at a rate of 0.85 fl. oz. per acre. [One 8.5 fl. oz. container will treat 10 acres in-furrow on 36" row spacing.]</p> |
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STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in a cool, dry place away from sunlight and out of the reach of children and pets. Do not reuse container.

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

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. (For product less than 5 gallons) 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 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. (For product greater than 5 gallons) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 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. An empty container retains vapor and product residue. Observe label safeguards until container is cleaned, reconditioned or destroyed. Completely empty contents into formulation equipment. Then offer for recycling or reconditioning or, dispose of container in a manner approved by state and local authorities.

WARRANTY

Vivid Life Sciences, LLC. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials or the manner of use or application, all of which are beyond the control of **Vivid Life Sciences, LLC.** To the extent consistent with applicable law, **Vivid Life Sciences, LLC.** shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. To the extent consistent with applicable law, the exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall not exceed the purchase price paid for this product or at **Vivid Life Sciences, LLC.** election, the replacement of this product. **Vivid Life Sciences, LLC.** MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

Manufactured For:

Vivid Life Sciences, LLC
P.O. Box 41632
Minneapolis, MN 55441

USAG2020

Ornamental, Field, and Nursery Use

When used as directed on this label, USAG2020 can boost seed germination and vitality, stimulate emergence and sprouting, enhance plant vigor, promote root growth, promote foliar growth, increase crop yields, improve crop vigor and quality, suppress diseases and pathogens, activate plant resistances to environment stress, drought, and disease pressures, including the suppression of plant parasitic nematodes.

Systemic Induced Resistance and Innate Immunity Protection

USAG2020 protects pine trees against Pine Beetles, Mountain Pine Beetle and Bark Beetles.

USAG2020 protects field crops, ornamentals, trees, citrus, grasses, grains, legumes, fruits and vegetables against blue stain fungus, mosaic crop virus, stem wilt, damp-off, early blight, late blight and mold.

Protects ornamentals, fields, trees, grasses, grains, legumes, fruits, citrus, turf and sod, and vegetables.

For use on cotton, tobacco, banana, tropical plants, grasses, pine and deciduous trees, grains, legumes, fruits, vegetables, sugar beet, shrubs, ground covers, bedding plants, house plants, turf and sod and flowers.

ACTIVE INGREDIENT:

Chitosan 0.25%

OTHER INGREDIENTS: 99.75%

Total 100.00%

Product contains 0.021 lb (0.01 kg) for chitosan/gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE/INSIDE/BACK PANEL FOR FIRST AID AND PRECAUTIONARY STATEMENTS

MANUFACTURED FOR:

Vivid Life Sciences, LLC
P.O. Box 41632
Minneapolis, MN 55441

EPA Reg. No. 92697-R
EPA Est. No. _____
Net Contents: _____

| FIRST AID | |
|---|---|
| IF IN EYES: | <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water 15 – 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice. |
| IF ON SKIN OR CLOTHING: | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 – 20 minutes. • Call a poison control center or doctor for treatment advice. |
| IF INHALED: | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. • Call a poison control center or doctor for further treatment advice. |
| Have product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information. | |

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

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 cleaning equipment or disposing of equipment wash waters.

[For 5 gallon product: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless in accordance with the requirements of 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 into sewer without previously notifying the sewage treatment plant authority. For guidance, contact your State Water board or regional Office of the EPA.]

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators, mixers, loaders and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves, protective eyewear, 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.

DIRECTIONS FOR USE

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

To prevent contamination of the dilute solutions of USAG2020 by possible pesticide or other chemical residues in the spraying equipment, use dedicated equipment, or be sure that the equipment is thoroughly clean before use.

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses. Keep people and pets of treated areas until spray solution has dried to prevent transfer of this product onto desirable vegetation.

GENERAL INSTRUCTIONS

Shake before using. For best results use pH neutral (pH 6.9 to 7.0) mix water. Follow specific crop instructions for dilution rates and application usage. Do not apply within three days of harvesting.

| Crops | Mixing and Application Instructions |
|---|---|
| Seeds | <ul style="list-style-type: none">• Mix 1 ml into 5 gallons or more• Apply enough product to wet the soil covering seeds.• Apply by spray, furrow and/or irrigation• Mix rate: 500 ml to 1500 ml into 10 to 50 gallons or more per acre |
| Minituber, seed potato, potato | <ul style="list-style-type: none">• Mix rate: 500 ml into 10 to 50 gallons or more• Pre-dip tubers prior to planting• Apply enough product to wet tuber• Plant while tuber is wet or dry |
| Field crops including corn, soybean, wheat, alfalfa, small grains, grass, sugar beet, cotton, tobacco, and legume | <ul style="list-style-type: none">• Mix rate: 500 ml into 50 to 500 gallons or more per acre• Apply before and after emergence; apply every 30 days as needed• Divide product into thirds to apply enough product at planting, after emergence, and mid-season• Apply by foliar spray, in furrow and/or irrigation |
| Vegetables and Herbs | <ul style="list-style-type: none">• Mix rate: 500 ml into 50 to 500 gallons or more per acre• Apply before and after emergence; apply every 30 days as needed• Apply by foliar spray, in furrow and/or irrigation• Divide product into thirds apply at planting, after emergence, and mid-season• Application rate: 150 ml or more per acre |
| Nursery Crops- Trees & Shrubs | <ul style="list-style-type: none">• Mix rate: 500 ml to 1500 ml into 50 to 500 gallons or more• Application rate: 500 ml to 1500 ml per acre• Apply every 30 to 45 days as needed• Apply by foliar spray and/or irrigation |
| Fruit Trees and Citrus | <ul style="list-style-type: none">• Mix rate: 500 ml to 1500 ml into 50 to 500 gallons or more• Application rate: 500 ml to 1500 ml per acre• Apply every 30 days as needed• Apply by foliar spray, in furrow and/or irrigation |
| Turf and Sod | <ul style="list-style-type: none">• Mix rate: 500 ml to 1500 ml into 500 gallons or more• Application rate: 500 ml to 1500 ml per acre• Apply area every 30 to 45 days as needed• Apply by irrigation or surface spray |
| Greenhouse & Horticultural Use- Ornamental Crops | <ul style="list-style-type: none">• Mix rate: 1 ml to 100 ml product / 5 gallons or more |

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|--------------------|---|
| | <ul style="list-style-type: none"> • Apply area: 500 to 1000 sq ft; apply every two weeks as needed • Apply to soil and/or spray plants • May be applied by means of irrigation |
| Pellet | <ul style="list-style-type: none"> • Mix rate 1 ml to 30 ml product / gallon or more • Apply enough product to wet the moisture absorbing materials • Allow to dry or wet and spread evenly to soil or furrow • Apply every two weeks as needed |
| Transplanting | <ul style="list-style-type: none"> • Mix 1 ml into 5 gallons or more • Apply enough product to wet the soil covering transplant • Apply every two weeks as needed |
| Compost | <ul style="list-style-type: none"> • Mix rate: 500 ml to 1500 ml into gallon or more • Apply area: 1 acre; apply every two weeks as needed • May be applied by means of irrigation |
| Field Applications | <ul style="list-style-type: none"> • Mix rate: 500 ml to 1500 ml into 50 to 500 gallons or more • Apply at planting time and after emergence; apply every 30 days as needed • Application rate: 500 ml to 1500 ml per acre • Apply by foliar spray, in furrow or irrigation |

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in a cool, dry place away from sunlight and out of the reach of children and pets. Do not reuse container.

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

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. (For product less than 5 gallons) 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 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. (For product greater than 5 gallons) Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 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. An empty container retains vapor and product residue. Observe label safeguards until container is cleaned, reconditioned or destroyed. Completely empty contents into formulation equipment. Then offer for recycling or reconditioning or, dispose of container in a manner approved by state and local authorities.

WARRANTY

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Manufactured For:

Vivid Life Sciences, LLC
P.O. Box 41632
Minneapolis, MN 55441

USAG2020

Home & Garden Use

When used as directed on this label, USAG2020 can boost seed germination and vitality, stimulate emergence and sprouting, enhance plant vigor, promote root growth, promote foliar growth, increase crop yields, improve crop vigor and quality, suppress diseases and pathogens, activate plant resistances to environment stress, drought, and disease pressures, including the suppression of plant parasitic nematodes.

Systemic Induced Resistance and Innate Immunity Protection

USAG2020 protects pine trees against Pine Beetles, Mountain Pine Beetle and Bark Beetles.

USAG2020 protects field crops, ornamentals, trees, citrus, grasses, grains, legumes, fruits and vegetables against blue stain fungus, mosaic crop virus, stem wilt, damp-off, early blight, late blight and mold.

Protects ornamentals, fields, trees, grasses, grains, legumes, fruits, citrus, turf and sod, and vegetables.

For use on tropical plants, grasses, pine and deciduous trees, shrubs, ground covers, bedding plants, house plants, herbs, vegetables, fruits, citrus, turf and sod and flowers.

ACTIVE INGREDIENT:

Chitosan 0.25%

OTHER INGREDIENTS: 99.75%

Total 100.00%

Product contains 0.021 lb (0.01 kg) for chitosan/gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE/INSIDE/BACK PANEL FOR FIRST AID AND PRECAUTIONARY STATEMENTS

MANUFACTURED FOR:

Vivid Life Sciences, LLC

P.O. Box 41632

Minneapolis, MN 55441

EPA Reg. No. 92697-R

EPA Est. No. _____

Net Contents: _____

| FIRST AID | |
|---|---|
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| IF ON SKIN OR CLOTHING: | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 – 20 minutes. • Call a poison control center or doctor for treatment advice. |
| IF INHALED: | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. • Call a poison control center or doctor for further treatment advice. |
| Have product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information. | |

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treated area. Rinsing application equipment over treated area will help avoid run off to water bodies or drainage systems.

DIRECTIONS FOR USE

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

To prevent contamination of the dilute solution of USAG2020 by possible pesticide or other chemical residues in the spraying equipment, use dedicated equipment, or be sure that the equipment is thoroughly clean before use.

GENERAL INSTRUCTIONS

Shake before using. For best results use pH neutral (pH 6.9 to 7.0) mix water. Follow specific crop instructions for dilution rates and application usage. Do not apply within three days of harvest.

| Crops | Mixing and Application Instructions |
|---|--|
| Seeds | <ul style="list-style-type: none"> • Mix 1 ml to 5 ml into 5 gallons • Apply enough product to wet the soil covering seeds. • Apply every week as needed |
| Home & Garden – Bedding Plants, Vegetables, Flowers and Ornamentals | <ul style="list-style-type: none"> • Mix rate: 1 ml to 5 ml product into 5 gallons or more • Application area: 1000 sq ft or more • Apply to soil and/or spray plants, apply additional water to soil as needed • May be applied by means of irrigation or sprayer |

| | |
|---------------|---|
| | <ul style="list-style-type: none"> • Apply every two weeks as needed |
| Compost | <ul style="list-style-type: none"> • Mix rate: 1 ml to 5 ml into 5 gallons or more • Application area: 10 to 100 sq ft • May be applied by means of irrigation or sprayer • Apply every two weeks as needed |
| Turf and Sod | <ul style="list-style-type: none"> • Mix rate: 1 ml to 5 ml product into 5 gallons or more • Application area: 1000 sq ft or more • Water area and spray surface area • May be applied by means of irrigation or sprayer • Apply every 10 days as needed |
| Trees, shrubs | <ul style="list-style-type: none"> • Mix rate: 1 ml to 5 ml product into 5 to 10 gallon • May be applied by means of sprayer, apply additional water to soil as needed • Apply every 30 to 45 days as needed to soil under the drip line |

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in a cool, dry place away from sunlight and out of the reach of children and pets. Do not reuse container.

PESTICIDE DISPOSAL AND CONTAINER HANDLING: Non-refillable container. **If empty:** Do not reuse or refill this container. Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

WARRANTY

Vivid Life Sciences, LLC. warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials or the manner of use or application, all of which are beyond the control of **Vivid Life Sciences, LLC.** To the extent consistent with applicable law, **Vivid Life Sciences, LLC.** shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. To the extent consistent with applicable law, the exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damages resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall not exceed the purchase price paid for this product or at **Vivid Life Sciences, LLC.** election, the replacement of this product. **Vivid Life Sciences, LLC.** MAKES NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

Manufactured For:

Vivid Life Sciences, LLC
P.O. Box 41632
Minneapolis, MN 55441

Optional Marketing Claims:

- Elicitor
- Elicitation of plant enzymes for plant vitality
- For Use Throughout the Growing Season
- Easy to Use
- Increases Yields
- Boost Your Production
- Enhance blooms and yields
- Promote Healthier Plants
- Healthier plants resist disease and pathogen attaches
- Improve plant vigor
- Fortifies plant defense mechanisms
- Elicit better crop performance
- Larger Flowers
- Robust Plant Growth Leads to Early Harvest
- Robust Plant Growth Leads to [Increase Yields][Larger Fruit][Larger Vegetables]
- Higher Pack-out equals more return per acre
- More large fruit
- Delays senescence
- Reduce bruising and blemishes
- Longer shelf life for crops
- Reduces ethylene production
- Elevate sugar content
- Overcomes environmental stress
- Healthier plants defend themselves better against nibblers
- Increases germination rates and seed vitality
- Improve sprouting
- Stronger emergence
- Increases bio-mass
- Better Stand Quality
- Induced Systemic Resistance against pathogens and disease
- Elevate innate immunity defense mechanisms in plants
- Elevate defense mechanisms in plants
- Activate chemical engines within plants
- Boost Plant Health
- Amendment for better crop performance
- Healthier Stand
- Proprietary Elicitor
- Crop and Yield Promoter
- Broad spectrum Biopesticide
- Allows plants to defend for themselves against pathogen, disease and pests
- Fast acting formula
- Guaranteed not to be harmful to crops
- Chitosan is one of the most common compounds in nature
- Boosts the ability of plants to defend against fungal infections
- [Product Name] provides protection against downy mildew, powdery mildew, early blight, late blight, gray mold, leaf spot, anthracnose, Stem wilt, damp-off, stem blight, stem cankering, and seed piece decay

- [Product Name] Able to bolster plant resistance against fungal diseases.
- Spray to plants throughout the growing season
- Mix and water plants throughout the growing season
- Indoor and outdoor use!
- [Product Name] Provides long lasting protection and innate immunity
- [Product Name] Provides long lasting systemic protection against disease, pathogens and pests
- More vigorous plants
- Results in healthier, more vigorous plants and increased yield
- [Product Name] Enhancement of soil microflora and beneficial microbes
- [Product Name] Shortens the time required for expression of mature plant resistance
- Fast results; mature plant resistance
- Stimulates growth
- Triggers the defensive mechanisms in plants for better production
- Use for bloom and fruit setting stimulation
- Protecting coating for fruits and vegetables
- Enhanced front protection
- [Product Name] SIR in sunflower which increases antioxidant activity and vitamin C levels in plants
- Extends the shelf life of treated fruit and vegetables
- Increased resin-based defense capability
- Increased Harvest yields
- Help Trees protect against pine beetles and blue stem mold
- Love your trees – stop pine beetles
- Induced systemic resistance increases oleoresin flow and resinous lesion formulation
- Pre-arm trees while they have a fighting chance
- Proven effective to boost plant resistance
- Proven effective to elicit defense responses in pine trees
- Proven effective to elicit defense responses in pine trees against pine beetles and blue stain fungus
- Increases pine resin pitch-out to stop pine beetles
- Protects plants from harmful nematodes
- Protects plants and beneficial nematodes
- Stop the pine beetle
- Activates Innate Immunity
- Increases pine resin pitch-out when applied to the soil and/or needles, induces blue stain mold control for Integrated Pest Management (IPM) programs
- [Product Name] has been shown effective to activate immune-like systems in plants against environmental stress, pests, disease and drought
- There have been over 20 years of ODC defense response tests on many plants including trees, shrubs, grasses and flowers.
- Cost effective colloidal chitosan solution made from shellfish
- ODC Tree Protection Solution
- Inexpensive alternative to costly pesticides
- [Product Name] SIR & Innate Immunity Image



Some pests and diseases control by [Product Name]

| Crop Name | Name of disease, pathogen, pest |
|--------------------|---|
| Apple | <i>Penicillium expansum</i> |
| Apple | <i>Botrytis cinerea</i> and <i>Penicillium expansum</i> |
| Barley | <i>Fusarium culmorum</i> |
| Carrot | <i>Sclerotinia sclerotiorum</i> |
| Celery | <i>Fusarium oxysporum</i> |
| Citrus | <i>Penicillium digitatum</i> |
| Conifers | <i>Ophiostoma minus</i> |
| Grand fir | Bark Beetle |
| Grapes | Gray mold |
| Grasses | Gray mold |
| Loblolly Pine | <i>Ophiostoma clavigerum</i> |
| Lodgepole Pine | <i>Ophiostoma minus</i> |
| Lodgepole Pine | <i>Ceratocystis clavigera</i> |
| Norway spruce | <i>Ceratocystis polonica</i> (the bark beetle-associated blue stain fungus) |
| Oranges Lemons | <i>Botrytis cinerea</i> and <i>Penicillium expansum</i> |
| Peach | <i>Botrytis cinerea</i> |
| Peanuts | <i>Penicillium</i> |
| Peas | <i>Nectria haematocca</i> |
| Peas | <i>Dendroctonus ponderosae</i> (Mountain pine beetle [MPB]) associated |
| Pine | Blue stain fungus |
| <i>Pinus Nigra</i> | <i>Sphaeropsis sapient</i> and <i>Diplodia scrobiculata</i> |
| Potato | <i>Penicillium</i> |
| Potato | <i>Verticillium</i> |
| Potato | <i>Rhizoctonia</i> |
| Potato | <i>Erwinia</i> |
| Potato | Nematode |
| Potato | Late Blight |
| Slash Pine | <i>Fusarium subglutinans</i> , <i>F. sp.</i> , <i>Pini</i> |
| Soybeans | Cyst Nematode |
| Soybeans | White Mold |
| Strawberry | <i>Phytophthora cactorum</i> |
| Tomato | Cucumber mosaic virus |

| | |
|---------------|---|
| Tomato | <i>Fusarium oxysporum</i> , <i>F. sp.</i> |
| Tomato | <i>Cladosporium fulvum</i> |
| Tomato | Nematode |
| Western Pines | <i>Ophiostoma minus</i> |
| Wheat | <i>F. culmorum</i> |