

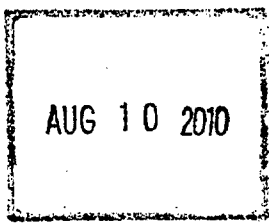
17545-12

08/10/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Lynn Georges
Regulatory Affairs Manager
Monterey AgResources
3654 S. Willow Ave.
Fresno, CA 93725



SUBJECT: R.D. 20
EPA Registration Number: 17545-12
Application Date: May 11, 2010
Receipt Date: May 11, 2010

Dear Ms. Georges:

The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the conditions listed below:

Conditions

1. Revise the Precautionary Statements for Agricultural/Commercial Uses to include the following: "...eye protection, *goggles or face shield*, and rubber..." and "soap and water *after handling and before eating, drinking, using tobacco or using the toilet.*"
2. Revise the heading in the boxed section of the Agricultural/Commercial Uses section to read: "*User Safety*" instead of "User Safety Recommendations" to bring this section into compliance with PR Notice 2000-5.
3. Revise the Environmental Hazards statement in the Agricultural/Commercial Uses section to begin as follows: "This product is toxic to fish *and aquatic invertebrates.* Do not apply..."
4. Revise the Precautionary Statements for the Non-Commercial/Residential Uses by deleting the following phrase: "when mixing or handling concentrate." and adding the following: "...chewing gum, *using tobacco or using the toilet.*"

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SURNAME	J. Jones						
DATE	8/10/10						

5. Revise the Environmental Hazards statement in the Non-Commercial/ Residential Uses section to begin as follows: "This product is toxic to fish *and aquatic invertebrates*. Do not apply..."

6. Revise the first section under the Horticulture Use section on page four to include the following: "...Fresh solution *must* be prepared..." to bring this section into compliance with PR Notice 2000-5.

7. Add the following statement to the Horticulture Use section on page four immediately above the table: "*Treatment is restricted to indoor uses or uses in which controlled conditions prevent runoff and exposure to the environment.*"

8. Revise the directions for Treatment of Lawns, Golf Courses (Green and Tees) and Commercial Turf on page nine by deleting the word "or" such that the section reads: "...turf area to prevent spread of *infection at least* one foot beyond..."

9. Revise the list of animal pathogens on page ten by deleting those pathogens for which data is required to be submitted to the Agency for review. Such data may be submitted at a later date and would be processed under PRIA II fees and timeframes. Delete: Bovine Viral Diarrhea Virus (ATCC VR-534), Equine Arteritis Virus (ATCC VR-796), Infectious Bovine Rhinotracheitis Virus (IBR), Newcastle Disease Virus, Porcine Respiratory & Reproductive Virus (PRRSV), and Transmissible Gastroenteritis (TGE) Virus. In addition, correct the list of pathogens to read Avian *Retrovirus*.

10. Your product is for use as a sanitizer on food contact surfaces, but is not for use as a disinfectant on food contact surfaces. Thus correct the heading immediately under the Food Processing heading to read: "Disinfectant" deleting the reference to food contact surfaces. Make the following revisions to this same section: a) state: "...in food processing plants, dairies, *and restaurants* to disinfect pre-cleaned..." deleting "and other non-medical institutions". This phrase is too broad. b) state: "...all surfaces prior to application with a detergent *and rinse with potable water.*"

11. Your product has public health claims in addition to horticultural uses. As such a user should not reuse the rinsate for a public health application as the use dilution at this point would be unknown. Revise your rinsing instructions in the agricultural/ commercial use section to read as follows for containers less than and equal to 5 gallons: "...Empty remaining contents *into a tank* and drain..." "Pour rinsate *into a tank for disposal...*" and for containers greater than 5 gallons: "...Empty remaining contents *into a tank...*" and "Empty the rinsate *into a tank for later disposal...*"

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12. Revise the Storage and Disposal section for non-commercial/residential uses by changing Disposal to read "*Pesticide Disposal and Container Handling*".

13. Revise the Conditions of Sale and Warranty to include the following mandatory language as per PR Notice 2000-5: "The directions for use of this product are believed to be reliable and *must* be followed..."

General Comments

A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,



Velma Noble
 Product Manager (31)
 Regulatory Management Branch I
 Antimicrobials Division (7510P)

7510P:T.Lantz:8/10/10:17545-12 accept label amend

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R•D•20

RECEIVED
with COMMENTS
in EPA Letter Dated:

4/16

AUG 10 2010

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 17545-12

- Disinfectant For Use Against Fungal, Bacterial, Algal And Viral Plant Pathogens And Their Odors
- Sanitizer and Disinfectant for Hard, Non-porous Surfaces
- Disinfectant for Animal Premises and Sanitizer for Commercial Food Grade Eggs
- Mosquito Control

Active Ingredients:

n-Alkyl (60%C₁₄, 30%C₁₆, 5%C₁₂, 5%C₁₈) dimethyl benzyl ammonium chloride..... 10%
 n-Alkyl (68%C₁₂, 32%C₁₄) dimethyl ethylbenzyl ammonium chloride 10%

Other Ingredients: 80%
Total: 100%

EPA Reg. No. 17545-12

EPA Est. No. 48498-CA-1

**KEEP OUT OF REACH OF CHILDREN
 DANGER PELIGRO**

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 IN EYES: •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.

IF ON SKIN OR CLOTHING: •Take off contaminated clothing.
 •Rinse skin immediately with plenty of water for 15-20 minutes.
 •Call Poison Control Center or doctor for treatment advice.

IF SWALLOWED: •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 a Poison Control Center or doctor.
 •Do not give anything by mouth to an unconscious person..

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment.

[Note to Reviewer – The following section is for AGRICULTURAL / COMMERCIAL USES]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER - CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing.

NON-WPS USES: Applicators and other handlers who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170)—in general, only agricultural plant uses are covered by the WPS—must wear: long sleeved shirt and long pants, shoes and socks, eye protection and rubber gloves. After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water.

WPS USES: Personal Protective Equipment (PPE): Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170)—in general, only agricultural plant uses are covered by the WPS—must wear:

- Coveralls worn over long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear and socks
- Protective eyewear
- Chemical-resistant headgear when using this product for algae control in overhead watering systems
- Chemical-resistant apron when mixing, loading or cleaning equipment

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

User Safety Recommendations:

Users must:

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

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark, except for algae control in ponds and control of mosquito populations as specified on this label. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

[If the container is 5 gallons or larger, the following paragraph must appear on the label]

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.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not mix with iron-based micronutrients, dye indicators, oxidizers or other anionic materials.

[Note to Reviewer – The following section is for NON-COMMERCIAL / RESIDENTIAL USES]

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER - CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if swallowed or absorbed through skin. Do not get in eyes, on skin or on clothing. Wear long-sleeved shirt and long pants, rubber gloves, goggles or face shield, and shoes and socks, ~~when mixing or handling concentrate.~~

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing separately from other laundry. Keep unprotected persons, children and pets out of treated areas until sprays have dried.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, except as specified on this label. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not mix with iron-based micronutrients, dye indicators, oxidizers or other anionic materials.

[Note to Reviewer – The following section is for AGRICULTURAL / COMMERCIAL USES]

DIRECTIONS FOR USE

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

[Note to Reviewer – The following section is for NON-COMMERCIAL / RESIDENTIAL USES]

DIRECTIONS FOR USE

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

[Note to Reviewer – The following section is for AGRICULTURAL / COMMERCIAL USES]

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). 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) of 48 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 worn over long sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant shoes plus socks
- Protective eyewear.

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, forest, nurseries, or greenhouses.

Keep unprotected persons, children, pets and others out of treated areas until sprays have dried.

CHEMIGATION: Do not apply this product through any type of irrigation system except when used to control algae in nozzles as directed on this label (see Overhead Watering Systems).

[Note to Reviewer – The following section is for ALL USES]

HORTICULTURAL USE

R•D•20 is a general disinfectant. It will help in the control of fungal, bacterial and viral plant pathogens, bacterial and fungal leaf rots, slime forming fungi, and odor causing bacteria and algae. It is designed specifically for greenhouse use where cross contamination may occur between plants. Pre-clean all surfaces prior to application of the disinfectant solution. All inanimate surfaces must be thoroughly wetted and remain wet for 10 minutes for disinfection. Then wipe up excess or allow to air dry. Fresh solution ~~Should~~ be prepared daily and when use solution becomes visibly dirty.

To apply solutions for sprayer applications, use as a coarse spray only. Spray applications are limited to a maximum rate of 800 ppm (1 Tbsp. R•D•20 per gallon of water) and a total use rate of 5 lbs A.I./acre (3 gallons R•D•20 per acre, or 8.8 fl.oz. per 1,000 square feet, or 0.9 fl.oz. per 100 square feet).

Where dosage and/or interval ranges are indicated, these may be adjusted according to disease conditions. For example, when conditions favor severe disease pressure, use the maximum rate and shortest spray interval.

Species	Diseases Controlled	Rate/Gal. of Water	Additional Information
Bulbs (such as Daffodils, Easter lilies, Gladioli, Hyacinth, Iris, Narcissus, Tulips)	<i>Fusarium</i> basal rot	1 Tbsp.	<u>Prestorage</u> : Treat the corms and bulbs immediately after they are "cleaned" by soaking them for 10 minutes in the solution. <u>Preplant</u> : Treat again immediately before planting.
Cactus	Bacterial leaf spot, Root rot, Top rot	2-3 tsp.	Sterilize seeds and disease free cuttings by dipping cuttings in the solution for 5 minutes before planting. Then spray at 10-14 day intervals.
	Slimy collar rot	2-3 tsp.	Just before planting, dip entire plant in the solution,
Cut flowers (in containers, tubes and decorative vases)	Bacterial stem plugging (restricts water uptake) Fungi (can create ethylene gas, a cause of petal drop)	1-3 tsp.	Flower spikes should be hardened in solution during harvesting, storage and shipping to help control the transfer of diseases.
Iris	Botrytis, Crown rot, Gray mold rot	2-3 tsp.	Treat all new rhizomes before planting. Submerge rhizomes and 3-4" of leaves in the solution for 30 minutes. Plant at once while still wet with solution.
Orchids – Seedlings	Damping-off (caused by <i>Pythium</i> , <i>Fusarium</i> or <i>Rhizopus</i>)	1.5-3 tsp.	From flask, soak seedling in solution for 2-5 minutes before potting to remove agar. Spray seedlings once a month as preventative maintenance. Spray any time disease is evident with solution.
Orchids – Dividing plants	Damping-off (caused by <i>Pythium</i> , <i>Fusarium</i> or <i>Rhizopus</i>)	1 Tbsp.	Remove compost then soak plant for 2-5 minutes in solution. Operate with wet hands and cutting tools (see Disinfecting). After division and root trim, soak divisions in solution for 2-5 minutes. Pot in compost drenched with solution.

Species	Diseases Controlled	Rate/Gal. of Water	Additional Information
Orchids – Adult plants	Damping-off (caused by <i>Pythium</i> , <i>Fusarium</i> or <i>Rhizopus</i>)	2-3 tsp.	Spray any time disease, other than rot (see Adult Orchid Rots), is evident with solution. Spray once per month as preventative maintenance. Drench compost when fungus is evident.
	Botrytis petal blight	1/3-3 tsp.	During cool weather, spray plants, flowers and under benches at first sign of spotting on flowers. Normally, weekly sprayings will greatly reduce or eliminate the Botrytis spotting.
	Rots (such as <i>Erwinia</i> , <i>et al.</i>)	1 Tbsp.	Remove compost from plant, then soak entire plant 10 minutes or more in solution. Cut away all rot with treated tool (see Disinfecting). Soak plant wounds again for 10 minutes in solution. Repot in drenched compost.
	Crown rot	2-3 tsp.	Spray plants weekly with solution, assuring coverage around and in base of leaves.
Plant Cuttings (such as Begonias, Carnations, Chrysanthemums, Fuschias, Geraniums)	Carnation rust, Crown gall, Gray mold leaf spots, Powdery mildew	2-3 tsp.	Soak cuttings 2-5 minutes in the solution. Plant in compost drenched with the solution.
Seedlings	Damping off	2-3 tsp.	Treat seeds and cuttings before planting by spraying with solution to completely wet all surfaces. Use inert material for planting seeds and cuttings, such as sphagnum moss, vermiculite, perlite, pumice, sterilized commercial mix rather than garden soil. If garden soil must be used, thoroughly saturate with the solution. After planting, water with solution (unless using soil saturated as above) and again after seedlings emerge. Spray weekly as needed.
	Downy mildew	2-3 tsp.	Spray with solution at 5 day intervals as needed.

ORNAMENTAL USE

Spray applications are limited to a maximum rate of 800 ppm (1 Tbsp. R•D•20 per gallon of water) and total use of 5 lbs A.I./acre (3 gallons R•D•20 per acre, or 8.8 fl.oz. per 1,000 square feet, or 0.9 fl.oz. per 100 square feet). Where dosage and/or interval ranges are indicated, these may be adjusted according to disease conditions. For example, when conditions favor severe disease pressure, use the maximum rate and shortest spray interval.

Treatment is restricted to indoor uses or uses in which controlled conditions to prevent runoff and exposure to the environment. In the case of diseased trees, the spot treatment of trees must be at least 100 feet away from any pond, lake, stream, or river to prevent possible runoff of the product into the waterway. DO NOT apply by aerial spray.

Whenever possible, remove and destroy dead and/or infected plant parts before applying R•D•20.

Species	Diseases Controlled	Rate/Gal. of Water	Additional Information
Aucuba, Dahlia, Fuschia, Geranium, Gladiolus, Peony, Piersis	Botrytis	2-3 tsp.	Spray buds and blooms lightly at first sign of disease, and repeat 2-3 times per week as needed. Before shipping, dip spikes in solution.
	Downy mildew, Gray mold	2-3 tsp.	Spray at first sign of disease repeating at 7-14 day intervals. Before shipping, dip spikes in solution.
	Rust	2-3 tsp.	Spray at 7-14 day intervals during the wet periods starting in early Summer. Before shipping, dip spikes in solution.

Species	Diseases Controlled	Rate/Gal. of Water	Additional Information
Begonias, Ferns, Gesneria	Bud rot, Leaf spots, Gray mold, Shoot rot	1-3 tsp.	Spray solution before buds open, when blossoms show pink, at 3/4 blossom fall, and 2 weeks after petal fall.
Cactus	Bacterial leaf spot, Root rot, Top rot	2-3 tsp.	Spray at 10-14 day intervals.
Calendulas, China asters, Chrysanthemums, Dahlias, Lilac, etc.	Powdery mildew	2-3 tsp.	Spray upper and lower surface of leaves and branches with solution until thoroughly wet. Spray when buds burst in Spring and repeat in 2 weeks. Spray every 2 weeks during the mildew season.
Carnations	Canker rot, Carnation rust, Crown rot, Leaf spot, Root rots, Stem rot	2-3 tsp.	Spray at first sign of disease and repeat at 7-10 day intervals.
	Gray mold rot	2-3 tsp.	Spray 1-2 times just before bloom and again as flowers are opening.
Crassula, Kalanchoe, Sedum	Crown gall, Crown rot, Root rot	2-3 tsp.	Destroy infected plant parts and drench the remainder. Spray plants weekly as needed.
Dogwood	Anthrachnose, Leaf blight, Leaf spots	2-3 tsp.	Spray 4 times: when flower buds begin to open, as soon as flower bracts have fallen, 4 weeks later, and in late summer after flower buds are well formed. If possible, spray just before rainy periods.
Fuschia, Gardenia, Geranium, Heliotrope	Bud rot, Gray mold, Stem rot	2-3 tsp.	Spray at first sign of disease and repeat weekly as needed.
Hawthorn	Rust	2-3 tsp.	Begin protective spraying with new leaf formation after winter dormancy but before onset of rainy season. Thoroughly spray undersides of infected leaves.
Hawthorn (<i>Crataegus</i>)	Leaf blights	2-3 tsp.	Make 3 applications: begin when leaves emerge from buds, when leaves are half grown, and again when fully grown.
Hollyhock	Rust	2-3 tsp.	Apply at weekly intervals as soon as growth begins. Repeat applications in late Summer.
Iris	Leaf spots	2-3 tsp.	Spray weekly with solution while leaves are growing.
Ornamental Trees (such as Sycamore, Ash, Crape myrtle, Live oak, etc.)	Anthrachnose	2-3 tsp.	Spray upper and under sides of leaves and twigs until thoroughly wet. A large tree requires 50-60 gallons of spray per treatment for adequate coverage. Make 3 applications: when buds start to swell in the spring, as leaves start to expand, and when leaves are about 3/4 grown.
	Powdery mildew	2-3 tsp.	Spray upper and lower surface of leaves and branches with solution until thoroughly wet at bud break and again in April. Apply 50-60 gallons of spray per tree for adequate coverage.
Note: Commercial application required for large, mature trees.			
Palms	Heart rot, <i>Penicillium</i> leaf base rot	2-3 tsp.	At first sign of rot, completely fill cup or "heart" formed by the palm branches at top center of the plant. Repeat every 7 days as needed.

Species	Diseases Controlled	Rate/Gal. of Water	Additional Information
Roses	Black spots, Powdery mildew, Rusts, Stem gall	2-3 tsp.	When symptoms appear, spray upper and lower surface of leaves and branches with solution until thoroughly wet. Apply at 7-10 day intervals as needed.
	Brown canker	2-3 tsp.	Begin spray applications in early Spring when new growth starts and repeat weekly until plant is dormant.
Rubber plant	Anthracnose, Crown gall	1-3 tsp.	Spray plant at first sign of disease and repeat weekly as needed.
Saintpaulias (African violets)	Bud rot, Crown rot, Downy mildew, Gray mold rot (<i>Botrytis</i>), Powdery mildew, Root rot	3/4-3 tsp.	Dip entire plant and pot in the solution for 5 minutes. Thereafter, spray every 10 days as needed.
Snapdragons	Anthracnose, Downy mildew, <i>Phyllosticta</i> blight, Powdery mildew, Stem rot, Wilt	2-3 tsp.	When symptoms appear, spray upper and lower sides of leaves until thoroughly wet. Repeat every 7-10 days as needed. Collect and burn tops in the Fall.
	Rust	2-3 tsp.	Apply at 7-10 day intervals as soon as plants are set out. Collect and burn tops in the Fall.

DISINFECTING

Work Areas and Benches: Spray or swab working surface with a solution of 1 Tbsp. R•D•20 per gallon of water for 10 minutes before each work period and again after each plant is completed to help control transfer of diseases such as *Botrytis*, crown rot, downy mildew, *Erwinia*, *Phalaenopsis* and other root rots. To apply solutions for sprayer applications, use as a coarse spray only.

Pots, Flats and Flower Buckets: Brush or wash used pots and flats, then soak in a solution of 1 Tbsp. R•D•20 per gallon of water for 10 minutes to help control transfer of diseases such as anthracnose, blight, *Botrytis*, crown rot, *Erwinia*, mildew, rust, *Phalaenopsis* and other root rots.

Cutting Tools: Soak cutting edge of tool for 10 minutes in a solution of 1 Tbsp. R•D•20 per gallon of water (1 tsp. per quart) before use to help control transfer of diseases such as *Botrytis*, *Erwinia*, Tobacco Mosaic Virus (TMV), stem rots, *Phalaenopsis* and other root rots. Dry and oil tools at the end of each work day.

ALGAE CONTROL

When used as directed, R•D•20 is effective against algae. With a little experience, you will quickly recognize algae contamination as it starts. Algae should be killed immediately! Remember – algae can double or quadruple in growth every day. Algae are generally dead when it does not feel slick to the touch and the color has changed. However, algae do not always change color when killed.

Greenhouse Glass: Spray or swab surface with a solution of 1 tsp. R•D•20 per gallon of water. Allow to air dry. Wash off dead algae with water. Spray clean surface again with the solution. Do not rinse. To apply solutions for sprayer applications, use as a coarse spray only.

House Plants: To control algae and cross contamination in terrariums, bubbles, etc., wipe inside of glass with a solution of ¼ tsp. R•D•20 per quart of water. Lightly mist plants with same solution.

Walkways: For heavy infestations, spray or swab surface with a solution of 1 Tbsp. R•D•20 per gallon of water. Let stand for an hour or more then brush and wash away dead algae. Soak area again with the solution. Do not rinse. This product will inhibit the growth of algae on walkways. Allow to dry on the surface and repeat application when algae growth returns. To apply solutions for sprayer applications, use as a coarse spray only.

Bird Baths: **DO NOT use when fish are present.** Clean to remove algae growth prior to filling bird bath and spray the exposed surface with a solution of 1 Tbsp. R•D•20 per gallon of water. Allow to air dry and brush off dead algae.

WATER TREATMENT

For use in Fountains, Water Displays, Decorative and Swimming Pools/Ponds and Standing Water (in such places as puddles at golf courses, recreational parks, amusement parks, universities and cemeteries: **DO NOT use when fish are present.** Remove floating type algae by raking, dragging with cable or chain, skimming, or any other suitable method. It is more economical to remove floating type algae before the water is treated. Treat water by "dribbling" R•D•20 solution (1 part R•D•20 to 4 parts water) around the edges where visible algae growth is evident. Apply 12 fl.oz. of use solution per 1,000 gallons of water. The use solution is often dribbled liberally along the windward side to float across the water and along the leeward side where contamination gathers. Where a spray rig is available, it may be used to apply the use solution instead of the hand "dribbling" method.

Note: Algae does not usually grow in water that is 5 feet or more in depth. However, floating type algae may grow on pond weeds that grow on the surface of water.

Spray from fountains treated with R•D•20 will not harm poolside plantings.

Decorative Pool and Standing Water Applications:

- Initial Dosage: 1 tsp. per 52 gallons of water (5 ppm*)
- 1 fl.oz. per 312 gallons of water (5 ppm)
- 1 pint per 5,000 gallons of water (5 ppm)
- 1 quart per 10,000 gallons of water (5 ppm)
- *ppm - parts per million active ingredient

Weekly Maintenance: Add not more than one-half the initial dosage. When pool is to remain empty for several weeks or longer, spray exposed surfaces with a solution of 1 Tbsp. R•D•20 per gallon of water.

Operating Fountains Applications:

Initial Dosage: Add a ½ tsp. of R•D•20 per 52 gallons of water at a time. Repeat until slight patches of foam appear. Then discontinue. Overdose reduces lighting efficiency.

Weekly Maintenance: Add not more than one-half the initial dosage until slight foam reappears.

Monthly Maintenance: Drain and clean bowl. Refill with fresh water and repeat initial treatment. Draining also removes airborne dirt, dust, contamination and alkali buildup.

Swimming Pool Applications:

Do not apply when swimmers are in the immediate vicinity. Apply product along edges of pool. Keep the filter running to facilitate one change over of water in the pool after treatment. Back flush the filter if it becomes clogged or if the pressure drops. After adding the product, wait at least 15 minutes before using the pool to allow the product to be distributed evenly throughout the pool. At the beginning of the swimming season or after a storm, remove branches, leaves and other foreign material before treating pool with product.

Initial Dose When Algae is Present: Apply 2 quarts of product per 50,000 gallons of water (or 13 fl.oz. per 10,000 gallons of water) followed by cleaning out settled algae next day and retreatment at the same dosage. This is repeated until the pool is clear of visible algae. Then 1 pint of product per 50,000 gallons of water (or 3 1/5 fl.oz. per 10,000 gallons of water) is used every 5-7 days to maintain control.

Initial Dose When No Signs of Algae are Present: Apply 1 pint of product per 50,000 gallons of water (or 3 1/5 fl.oz. per 10,000 gallons of water) every 5-7 days.

MOSQUITO CONTROL

When used as directed, R•D•20 is effective as an ovicidal, larvacidal, pupacidal control of *Aedes aegypti* (Yellow fever carrier) and *Culex nigripalpus* (carrier of various diseases of man and animal, such as heartworm and Hepatitis) mosquitoes. This product will also reduce larval populations of *Anopheles quadrimaculatus* (Malaria carrier) mosquitoes.

This product is not intended to be used for broadcast mosquitocide application but rather is limited to small residential ponds, decorative ponds, and similar areas. This product is not to be used in open waterways connected to larger watersheds or in waters that serve as natural habitats for aquatic and amphibious organisms. This product controls mosquitoes where they breed (fountains, water displays, decorative pools, decorative ponds, sewage treatment systems, spas, hot tubs, swimming pools and standing water in old tires, empty tin cans, barrels, puddles, and water drains around buildings). Do not exceed 10 applications at a minimum of 10-day intervals per year. NOTE: Only out-of-season, not-in-service, or inactive spas, hot tubs, swimming pools require treatment for mosquito control. Do not treat during the swimming season. Spray from fountains treated with this product will not harm poolside plantings. DO NOT use when fish or other wildlife (for example, amphibians) are present.

INITIAL DOSAGE				
R•D•20		Per	Unit water for 200 ppm*	
Metric (cc)	U.S. (fl.oz.)		Metric (L)	U.S. (gal.)
3.8	0.13		3.78	1
38.0	1.28		37.85	10
380.0	12.8		378.5	100
3785.0	128.0 (1 gal.)		3785	1,000

Treat water by "dribbling" R•D•20 solution around the edges of the site to be treated. Where a spray rig is available, it may be used to apply the use solution instead of the hand dribbling method.

WEEKLY MAINTENANCE				
R•D•20		Per	Unit water for 100 ppm*	
Metric (cc)	U.S. (fl.oz.)		Metric (L)	U.S. (gal.)
1.9	0.065		3.78	1
19.0	0.64		37.85	10
190.0	6.4		378.5	100
1892.5	64 (½ gal.)		3785	1,000

Each week repeat maintenance dosage or add R•D•20 using a test kit to maintain the proper concentration.

* ppm - parts per million active ingredient.

[Note to Reviewer – The following section is for AGRICULTURAL / COMMERCIAL USES]

TREATMENT OF LAWNS, GOLF COURSES (Greens and Tees) AND COMMERCIAL TURF

To control fungal diseases [including dollar spot (*Sclerotinia*), fusarium blight (*Fusarium*), leaf spot (*Helminthosporium*), brown patch (*Rhizoctonia*), fading-out (*Curvularia*), Southern blight (*Sclerotium rolfsii*), *Pythium* blight, rust, toad stools and fairy rings] and algal build-up in turf grasses, including lawns and commercial turf of GRASS or DICHONDRA, spray a solution of 1 Tbsp. (1/2 fl.oz.) R•D•20 per gallon of water (800 ppm). Treat at a rate of one gallon of solution to 50 square feet (5 ft. x 10 ft.) of turf. Treat entire turf area to prevent spread of infection at least one foot beyond the edges of isolated diseased areas. Saturate the entire treatment area, wetting all plant and soil surfaces.

Repeat spray applications every 10 to 14 days, as needed to control new or established disease conditions. Treatment is required during the warm growing season and must be made when the turf is dry or damp, but not during wet rainy weather.

If commercial power sprays are used, reduce spray concentration to 1 tsp. per gallon of water (or 1 pint per 50-100 gallons of spray mixture to treat 10,000 square feet or ¼ acre) (1.6 fl.oz. per 1,000 sq.ft. or ½ gallon per acre)

For golf course greens and tees, maximum application is 0.8 lbs A.I./acre (200 ppm) (½ gallon per acre) (1.5 fl.oz. per 1,000 square feet). Following the above instructions, spray a solution of 1 Tbsp. (1/2 fl.oz.) R•D•20 per 4 gallons of water (200 ppm). Treat at a rate of one gallon of solution to 90 square feet (9 ft. x 10 ft.) of turf. Do not exceed treatment of 10 acres (2000 gallons) with retreatment at 10 day intervals. Do not exceed 6 treatments per year.

Do not graze treated areas or feed clippings to livestock.

[Note to Reviewer – The following section is for NON-COMMERCIAL / RESIDENTIAL USES]

TREATMENT OF LAWNS

To control fungal diseases [including dollar spot (Sclerotinia), fusarium blight (Fusarium), leaf spot (Helminthosporium), brown patch (Rhizoctonia), fading-out (Curvularia), Southern blight (Sclerotium rolfsii), Pythium blight, rust, toad stools and fairy rings] and algal build-up in turf grasses, including lawns of GRASS or DICHONDRA, spray a solution of 1 Tbsp. (1/2 fl.oz.) R•D•20 per gallon of water (800 ppm). Treat at a rate of one gallon of solution to 50 square feet (5 ft. x 10 ft.) of lawn (1/2 gallon of solution to 25 square feet of lawn). Treat at least one foot beyond the edges of isolated diseased areas. Saturate the entire treatment area, wetting all plant and soil surfaces.

For residential lawns/turf, application is limited to spot treatment of diseased areas of the lawn/turf at a maximum use rate of 5.4 lbs A./acre (800 ppm), not to exceed 20 gallons per 1000 sq. ft. (1 gallon per 50 sq.ft.) (1/2 gallon per 25 sq. ft.).

Treatment may be repeated up to 6 times a year at 10 day intervals as needed to control new or established disease conditions. Treatment is required during the warm growing season and must be made when the turf is dry or damp, but not during wet rainy weather.

Do not graze treated areas or feed clippings to livestock.

[Note to Reviewer – The following section is for AGRICULTURAL / COMMERCIAL USES]

OTHER USES

Overhead Watering Systems: During the last 2-3 minutes of watering use 1 fl.oz. (2 Tbsp.) of R•D•20 per 20 gallons of water (or equivalent use dilution) as a control program. Due to variations of growing conditions, use every second to fourth watering. Will control algae in nozzles.

[Note to Reviewer – The following section is for ALL USES]

OTHER USES

Mildewstat: Tabletops, floors, walls. To control mold and mildew on pre-cleaned hard, non-porous surfaces, apply a solution of 1½ fl.oz. (3 Tbsp.) R•D•20 per gallon of water with a cloth, mop or sponge, making sure to wet all surfaces completely. Let air dry. Repeat at weekly intervals or when mildew growth reappears. Prepare a fresh solution for each use.

Evaporative Cooler: Controls algae, slime forming fungi on cooler pads and certain fungal plant pathogens that may carry over in the cooler as well as bacterial odors. Use 1 tsp. of R•D•20 per 15 gallons of water every other week.

[Note to Reviewer – The following section is for AGRICULTURAL / COMMERCIAL USES]

ANIMAL PREMISE DISINFECTANT

Animal Premise Virucidal Performance: At 2 ounces per 5 gallons use level (or equivalent use dilution) (625 ppm active quat), this product was evaluated in the presence of 5% serum with a 10-minute contact time and found to be effective against the following viruses on hard, non-porous environmental surfaces:

Avian influenza A H9N2/Turkey/Wisconsin Virus (ATCC VR-798)

Avian Influenza A (H5N1) virus

Avian Reovirus (ATCC VR-2449)

~~Bovine Viral Diarrhea virus (ATCC VR-564)~~

Canine Coronavirus (ATCC VR-809)

Canine Distemper Virus

~~Equine Arteritis virus (ATCC VR-700)~~

~~Infectious Bovine Rhinotracheitis Virus (IBR)~~

Infectious Laryngotracheitis Virus

~~Newcastle Disease Virus~~

~~Porcine Respiratory & Reproductive Virus (PRRV)~~

Porcine Rotavirus (ATCC VR-893)

Pseudorabies Virus (ATCC VR-135)

~~Transmissible Gastroenteritis (TGE) Virus~~

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Poultry House Disinfectant: Remove all poultry and feeds from premises, vehicles, and enclosures. Next remove all litter and droppings from floors, walls and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a disinfecting solution of 2 fl.oz. (4 Tbsp.) R•D•20 per 5 gallons of water (or equivalent use dilution) (625 ppm active quat) for a period of 10 minutes. Ventilate buildings, coops and other closed spaces. Do not house poultry or employ equipment until treatment has absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

Farm Premise (non-dairy) Disinfectant: Remove all animals and feed from premises, vehicles and enclosures. Next remove all litter and manure from floors, walls and surfaces of barns, stables, stalls, pens, chutes, and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a disinfecting solution of 2 fl.oz. (4 Tbsp.) R•D•20 per 5 gallons of water (or equivalent use dilution) (625 ppm active quat) for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels and scrapers used for removing litter and manure. Ventilate buildings, vehicles and other closed spaces. Do not house livestock or employ equipment until treatment has absorbed, set or dried. Thoroughly scrub treated feed racks, troughs, mangers, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

Animal Care Facilities: For cleaning and disinfecting the following hard nonporous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, catteries, etc. Remove all animals and feeds from premises, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a solution of 2 fl.oz. (4 Tbsp.) R•D•20 per 5 gallons of water (or equivalent use dilution) (625 ppm active quat) for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has absorbed, set or dried.

FOOD PROCESSING

Disinfectant– Food Contact Surfaces: For use in food processing plants, dairies, restaurants, and ~~other commercial institutions~~ to disinfect pre-cleaned inanimate nonporous surfaces such as tabletops, floors and walls. Before use in food processing plants and dairies, food products and packaging materials must be removed from the room or carefully protected. Remove all gross food particles, filth or soil from areas that are to be sanitized with a routine pre-flush, pre-soak or pre-scrape treatment. Thoroughly pre-clean all surfaces prior to application with a detergent. Prepare a disinfecting solution of 2 fl.oz. (4 Tbsp.) R•D•20 per 5 gallons of water (or equivalent use dilution) (625 ppm active quat) and apply with a mop, cloth or mechanical sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. After disinfection, a potable water rinse is required. Prepare a fresh solution daily or when solution becomes diluted or soiled. Do not use to disinfect appliances, refrigerator interiors, and microwave oven interiors. Do not use on dishes, glasses, and utensils.

Sanitizer – Food Contact Surfaces: For use in restaurants, dairies, and food processing plants on hard nonporous surfaces. Remove all gross food particles and soil from areas that are to be sanitized with a routine pre-flush, pre-soak or pre-scrape treatment. Thoroughly pre-clean all surface with a detergent. Then rinse with potable water prior to applying the sanitizing solution of ½ fl.oz. (1 Tbsp.) R•D•20 per 4 gallons of water (or equivalent use dilution) (200 ppm active quat). Prepare a fresh solution daily or more frequently as solution becomes diluted or soil is apparent.

For immobile items such as counter tops, flood the area for at least 60 seconds, making sure to wet all surfaces completely. Remove or drain the use solution from the surface and let air dry. Prepare a fresh solution daily or more frequently as solution becomes diluted or soil is apparent.

For mobile items such as drinking glasses or eating utensils, immerse the item for at least 60 seconds, making sure to immerse completely. Remove or drain the use solution from the surface and let air dry. Prepare a fresh solution daily or more frequently as solution becomes diluted or soil is apparent.

Sanitizer – Commercial Food Grade Eggs Only: To sanitize previously cleaned whole food grade egg shells (dirty, cracked or punctured eggs cannot be sanitized) in shell egg and egg processing plants intended for food or food products, spray with a solution of ½ fl.oz. (1 Tbsp.) R•D•20 per 4 gallons of

water (200 ppm active quat). The temperature of the solution should be equal to or warmer than the eggs, but not to exceed 130°F. Wet eggs thoroughly and allow to drain. Eggs sanitized with this product must be subjected to a potable water rinse if they are to be broken immediately for use in the manufacture of egg products. Eggs must be reasonably dry before casing or breaking. The solution must not be reused for sanitizing eggs.

[Note to Reviewer – The following section is for AGRICULTURAL / COMMERCIAL USES]

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Open dumping is prohibited. Do not reuse empty container. Place in locked storage inaccessible to children and others unfamiliar with product use.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact ACRC at www.acrecycle.org.

For containers ≤ 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 ¼ 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, if available, 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.

For containers > 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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, if available, 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.

[Note to Reviewer – The following section is for NON-COMMERCIAL / RESIDENTIAL USES]

STORAGE AND DISPOSAL

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

STORAGE: Store in an area out of reach of children, preferably a locked storage cabinet. Protect from freezing.

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

[Note to Reviewer – The following section is for ALL USES]

NOTICE TO USER

This product has been tested on a wide variety of plants and in our opinion has demonstrated excellent plant safety. However, not all varieties or strains of the plants listed have been tested. Unintentional consequences such as crop injury or ineffectiveness may result because of certain environmental or growing conditions, manner of use or application, and insect resistance. Therefore, before treating a large number of plants, spray a few plants and observe for plant damage and for performance prior to full-scale application. All risks shall be assumed by the user.

CONDITIONS OF SALE AND WARRANTY

Monterey AgResources (MAR) warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated when used in accordance with the use directions under normal conditions. MAR neither makes, nor authorizes any agent or representative to make, any other warranties, express or implied, including fitness or merchantability. The directions for use of this product are believed to be reliable and ~~should~~ be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Plant injury, ineffectiveness or other unintended consequences may result because of such factors as timing and method of application, weather and plant conditions, presence of other materials, or other influencing factors, all of which are beyond the control of MAR and Seller. Buyer and user acknowledge and assume all risks and liability resulting from the handling, storage and use of this material not in strict accordance with directions given herewith. In no case shall MAR or the Seller be liable for consequential, special, indirect, or incidental damages or losses resulting from the handling or use of this product. The foregoing is a condition of sale by MAR and is accepted as such by the Buyer.

Net Contents: NON-COMMERCIAL / RESIDENTIAL USES: 1 qt, 1g
AGRICULTURAL / COMMERCIAL USES: 1g, 2.5g, 15g, 30g, 55g

Manufactured for:

Monterey AgResources
P.O. Box 35000
Fresno, CA 93745
(559) 499-2100

Additional Marketing Claims:

Stable – Mixes readily with water
Does not separate – A good wetting agent
Leaves no residue marks on foliage
R•D•20 is a concentrate and must be diluted before use.