

NOTE: This is a specimen label for electronic distribution. Refer to product label on container for specific directions for use.



MONTEREY R•D•20® DISINFECTANT

ACTIVE INGREDIENTS:

n-Alkyl (60%C ₁₄ , 30%C ₁₆ , 5%C ₁₂ , 5%C ₁₈) dimethyl benzyl ammonium chloride	10%
n-Alkyl (68%C ₁₂ , 32%C ₁₄) dimethyl ethylbenzyl ammonium chloride	10%

INERT INGREDIENTS: 80%

TOTAL: 100%

EPA Reg. No. 53642-1-17545

EPA Est. No. 48498-CA-1

Manufactured for:

MONTEREY CHEMICAL COMPANY

P.O. Box 35000 • Fresno, CA 93745-5000 • (559) 499-2100

R•D•20 is a registered trademark of RD & Associates. Patent Pending

**FOR USE AGAINST FUNGAL, BACTERIAL, ALGAL
AND VIRAL PLANT PATHOGENS AND THEIR ODORS**

Stable — Mixes Readily with Water
Does Not Separate — A Good Wetting Agent
Leaves No Residue Marks on Foliage

Monterey R•D•20 Disinfectant is a Concentrate
and Must be Diluted Before Use

**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).

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink egg whites, gelatin solution or, if these are not available, drink large quantities of water. Call a physician.

IF ON SKIN: Flush skin with plenty of water for at least 15 minutes.

IF IN EYES: Flush eyes with plenty of water for 15 minutes and call a physician.

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER - CORROSIVE. Harmful or fatal if swallowed. Causes severe eye and skin damage. Do not get in eyes, on skin or on clothing. Avoid contamination of food.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes and socks
- Protective eyewear

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.

USER SAFETY RECOMMENDATIONS:

Users should:

- 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.

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.

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 12 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, waterproof gloves, shoes plus socks, and protective eyewear.

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty 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 DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

Monterey R•D•20 Disinfectant 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 and home 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. Fresh solution should be prepared daily and when solution becomes visibly dirty.

Do not apply this product through any type of irrigation system. Do not mix with iron based micronutrients, dye indicators or other anionic materials.

DISINFECTING

Work areas and benches: Use 1 tbsp. Monterey R•D•20 Disinfectant per gallon of water. Spray or swab working surface before each work period and again after each plant is completed to help control transfer of diseases. At end of work, dry and oil tools.

Pots and Flats: Used pots and flats should be brushed or washed, then soaked in a solution of 1 tbsp. Monterey R•D•20 Disinfectant per gallon of water for 10 minutes before using to help control transfer of diseases. At end of work, dry and oil tools.

Cutting Tools: Soak cutting edge of tool for 10 minutes in a solution of 1 tbsp. Monterey R•D•20 Disinfectant per gallon of water before use to help control transfer of diseases. At end of work, dry and oil tools.

ALGAE CONTROL

Greenhouse Glass: Spray or swab surfaces with a solution of 1 tsp. Monterey R•D•20 Disinfectant per 1 gallon of water. Wash off dead algae with water. Spray clean surfaces again with the solution.

Walkways: For heavy infestations, spray or swab a solution of 1 tbsp. Monterey R•D•20 Disinfectant per 1 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. Allow to dry on the surface and repeat application when algae growth returns.

* **Bird Baths:** Do not use with fish. Clean to remove algae growth prior to filling bird bath by spraying all exposed surfaces with a solution of 1 tbsp. Monterey R•D•20 Disinfectant per gallon of water. Allow to air dry and brush off dead algae.

* **Lawns, Golf Courses, Greens, Tees, Fairways:** Spray a solution of 1 tbsp. Monterey R•D•20 Disinfectant / gal. water / 40 sq. ft.

Treat the entire lawn to prevent the spread of infection, or treat at least 1 foot beyond the edges of isolated diseased areas. Saturate the entire treatment area, wetting all plant and soil surfaces. Repeat spray application every 10-14 days as needed. Treatment is required during the warm growing season and may be made when the grass is dry or damp. Do not apply during wet, rainy weather or just before irrigation or watering. Do not graze treated areas or feed clippings to livestock.

* **Not for use in California.**

ORCHIDS

Seedlings: Soak seedling 2-5 minutes before potting to remove agar. To help prevent damping-off caused by *Pythium*, *Fusarium* or *Rhizopus*, spray seedlings once per month as preventative maintenance. Spray any time disease is evident with a solution of 1.5 tsp. Monterey R•D•20 Disinfectant per gallon of water.

Adult Plants: Spray any time disease is evident with a solution of 2 tsp. Monterey R•D•20 Disinfectant per gallon of water. Spray once per month as preventative maintenance.

Dividing Plants: Remove compost, then soak plant for 2-5 minutes in a solution of 1 tbsp. Monterey R•D•20 Disinfectant per gallon of water. Operate with wet hands and cutting tools. After division and root trim, soak divisions in the solution for 2 to 5 minutes. Pot in compost drenched with the Monterey R•D•20 Disinfectant solution.

Botrytis Petal Blight: 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. Use 1 tsp. of Monterey R•D•20 Disinfectant per 3 gallons of water.

Cut Flowers: containers, tubes and decorative vases. Recommend flower spikes be hardened in a solution of 1 tsp. Monterey R•D•20 Disinfectant per gallon of water during harvesting, storage and shipping to help control the transfer of diseases.

Rots (Such as *Erwinia*, et al): Remove compost from plant, then soak entire plant 10 minutes or more in a solution of 1 tbsp. Monterey R•D•20 Disinfectant per gallon of water. Cut away all rot with treated tool. Soak plant wounds again for 10 minutes in solution. Repot in drenched compost.

Crown Rot: Spray plants weekly with a solution of 2 tsp. Monterey R•D•20 Disinfectant per gallon of water.

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HORTICULTURAL USAGES

Use	Diseases Controlled	Rate / gal. of water	Additional Information
* Seedlings	Damping off	1 tsp.	Treat seeds and cuttings before planting. Use an inert material for planting seeds and cuttings such as sphagnum moss, vermiculite, perlite, pumice, or sterilized commercial mix. If garden soil must be used, drench with the solution. After planting, water with the solution and again after seedlings emerge. Spray weekly as needed.
* Seedlings	Downy mildew	1.5 tsp.	Spray at 5 day intervals.
* Plant Cuttings (begonias, chrysanthemums, fuschias, geraniums)	Crown gall, Grey mold leaf spots, Powdery mildew	1 tsp.	Soak cuttings 2-5 minutes in the solution. Plant in compost drenched with the solution.
* Bulbs (daffodils, Easter lilies, gladioli, hyacinth, iris, narcissus, tulips)	Fusarium basal rot	1 tsp.	Prestorage and preplanting: treat the corms immediately after they are cleaned. Treat again immediately before planting by soaking them for 10 minutes.
* Cut Flowers (containers, tubes, and decorative vases)	Stem plugging (restricts water uptake) Bacteria and fungi (creates ethylene gas, a cause of petal drop)	1 tsp.	Flower spikes should be hardened in solution during harvesting, storage and shipping. Treatment will also help control transfer of diseases.

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ORNAMENTAL USAGES

Species	Diseases Controlled	Rate / gal. of water	Additional Information
* Iris	Botrytis, crown rot, gray mold rot	1.5 tsp.	Treat all new rhizomes before planting. Submerge rhizomes and 3-4" of leaves for 30 minutes. Plant at once while still wet with solution.
* Roses	Black spots, powdery mildew, rusts, stem gall	1 tsp.	Spray upper and lower surface of leaves and branches until wet. Spray several times, 7 to 10 days apart.
* Calendulas, China Asters, Chrysanthemum, Crape Myrtle, Dahlias, Lilac, Live Oak, Snapdragon, etc.	Powdery mildew	1.5 tsp.	Spray upper and lower surface of leaves and branches until wet. Spray when buds burst in spring and repeat 2 weeks later. Spray every 2 weeks during the mildew season. Spray live oaks at bud break and again in April.
* Cactus	Bacterial leaf spot, root rots, top rot	1.5 tsp.	Dip cutting for 5 min in the solution before planting. Then spray at 10-14 day intervals.
* Saintpaulias (African Violets)	Bud rot, crown rots, gray mold rot (botrytis), mildew, root rots	3/4 tsp.	Dip plant and pot in the solution. Spray for complete coverage of all surfaces every 10 days.
* Aucuba, Dahlia, Fuschia, Geranium, Gladiolus, Peony, Pieris	Botrytis, downy mildew, gray mold	1 tsp.	Remove dead plant parts and apply at first sign of disease. For rust, apply at 7-14 day intervals. For botrytis, spray buds and blooms lightly 2-3 times a week. Before shipping, dip spikes in solution.
* Begonias, Ferns, Gesneria	Gray mold bud rot, leaf spots, shoot rot	1 tsp.	Remove dead leaves. Spray before buds open, when blossoms show pink, when 3/4 of blossoms have fallen, and 2 weeks after petal fall.
* Fuschia, Gardenia, Geranium, Heliotrope	Gray mold bud rot, stem rot	1 tsp.	At first sign of disease, pick off infected leaves and blossoms. Spray weekly as needed.
* Crassula, Kalanchoe, Sedum	Crown gall, crown rots, root rots	1 tsp.	Destroy infected plants or plant parts and drench the remainder. Spray plants weekly.
* Rubber Plant	Anthrachnose, crown gall	1 tsp.	At first sign of disease, pick off infected leaves. Spray weekly as needed.

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ORNAMENTAL USAGES (cont.)

Species	Diseases Controlled	Rate / gal. of water	Additional Information
* Hawthorn, Hollyhock, Snapdragon	Rusts	1 tsp.	Spraying should begin with the development of new leaves. Be sure under sides of infected leaves are covered with solution. Apply at weekly intervals.
* Dogwood	Anthrachnose, leaf blights, leaf spots	1.5 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.
* Hawthorn	Leaf blights	1.5 tsp.	Make 3 spray applications: as soon as leaves emerge from buds, when leaves are half grown, and again when fully grown.
* Snapdragons	Anthrachnose, downy mildew, phyllosticta blight, powdery mildew, rusts, stem rot, wilts	1 tsp.	Spray upper and lower sides of leaves every 7 to 10 days. Collect and burn the tops in fall.
* Carnations	Canker rot, carnation rust, crown rot, gray mold rot, leaf spot, root rots, stem rot,	1 tsp.	Dip cuttings in solution before planting. Spray 1-2 times just before bloom and again as flowers are opening. Collect and burn infected buds, blossoms and stems.
* Trees (Sycamore, Ash, etc.)	Anthrachnose	1.5 tsp.	Apply 50-60 gallons of spray per tree for adequate coverage. Make 3 applications: when buds swell in the spring, as leaves start to extend, and when leaves are 3/4 grown.
* Palms	Heart rot, penicillium leaf base rot	1.5 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.

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*** TREATMENT OF LAWNS, GOLF COURSES AND COMMERCIAL TURF:**

To control fungal diseases in turf grasses, including lawns of GRASS or DICHONDRA, including dollar spot (*Sclerotinia*), fusarium blight (*Fusarium*), leaf spot (*Helminthosporium*), brown patch (*Rhizoctonia*), fading-out (*Curvularia*), pythium blight, rust, toad stools and fairy rings, spray a solution of 1 tbsp. Monterey R•D•20 Disinfectant / gal. water / 40 sq. ft.

Treat the entire lawn to prevent the spread of infection, or treat at least 1 foot beyond the edges of isolated diseased areas. Saturate the entire treatment area, wetting all plant and soil surfaces. Repeat spray application every 10-14 days as needed. Treatment is required during the warm growing season and may be made when the grass is dry or damp. Do not apply during wet, rainy weather or just before irrigation or watering. Do not graze treated areas or feed clippings to livestock.

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OTHER USAGES

* **Mildewstat:** Tabletops, floors, walls. To control mold and mildew on pre-cleaned hard, non-porous surfaces, apply solution with a cloth, mop or sponge, making sure to wet all surfaces. Let air dry. Repeat at weekly intervals. Use 1.5 oz. of Monterey R•D•20 Disinfectant per gallon of water.

Overhead Watering Systems: During the last 2-3 minutes of watering use 1 oz. of Monterey R•D•20 Disinfectant per 20 gallons of water as a control program. Due to variations of growing conditions, use every 2nd to 4th watering. Will control algae in nozzles.

Evaporative Coolers: 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 Monterey R•D•20 Disinfectant per 15 gallons of water every other week.

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LIMITATION OF LIABILITY

Manufacturer warrants that this product conforms to the chemical description on the label. Buyer assumes all risks of use in handling which are at variance in any way with the directions on the label. MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. DAMAGES CAUSED BY THIS PRODUCT ARE LIMITED TO REPLACEMENT OF THE PRODUCT OR RETURN OF THE PURCHASE PRICE.

Note: 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. 0897(01)