

MONTEREY M-20

(Fungicide / Algaecide / Disinfectant)

DISINFECTANT 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
- Concentrate — Must Be Diluted Before Use



Active Ingredients:

n-Alkyl (60% C14, 30% C16, 5% C12, 5% C18)	
dimethyl benzyl ammonium chloride	10.0%
n-Akyl (68% C12, 32% C14) dimethyl ethylbenzyl	
ammonium chloride	10.0%
Other Ingredients:	80.0%
Total:	100.0%

EPA Reg. No. 53642-1-54705

EPA Est. No. 48498-CA-1

PATENT PENDING

Manufactured For:

LAWN AND GARDEN PRODUCTS, INC.

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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, shoes and socks. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse. Wash clothing separately from other laundry. Keep unprotected persons out of treated areas until sprays have dried.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, or 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.

PHYSICAL OR CHEMICAL HAZARDS

Do not mix with iron-based micronutrients, dye indicators or other anionic materials.

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. FOR RESIDENTIAL USE.

GENERAL INFORMATION

MONTEREY M-20 (Fungicide/Algaecide/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 use where disease 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 must be prepared daily and when use solution becomes visibly dirty. To apply solutions for sprayer applications, use as a coarse spray only.

DISINFECTING

Work Areas and Benches:

Spray or swab working surface with a solution of 1 Tbsp. MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) per gallon of water (1 tsp./quart) 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 root rot. To apply solutions for sprayer applications, use a coarse spray only.

Pots, Flats and Flower Buckets:

Brush or wash used pots and flats, then soak in a solution of 1 Tbsp. of MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) per gallon of water (1 tsp./quart) for 10 minutes to help control transfer of diseases such as anthracnose, blight, *Botrytis*, crown rot, *Erwinia*, mildew, *Phalaenopsis*, root rot, and rust.

Cutting Tools:

Soak cutting edge of tool for 10 minutes in a solution of 1 Tbsp. of MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) per gallon of water (1 tsp./quart) before use to help control transfer of diseases such as *Botrytis*, *Erwinia*, *Phalaenopsis*, root and stem rots, and Tobacco Mosaic Virus (TMV). Dry and oil tools at the end of each workday.

ALGAE CONTROL

When used as directed, MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) 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. of MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) 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.

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 SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
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 IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

Have product container or label with you when calling a poison control center or doctor, or going for treatment.

*** House Plants:**

To control algae and cross contamination in terrariums, bubbles, etc., wipe inside of glass with a solution of 1/4 tsp. MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) per quart of water. Lightly mist plants with same solution.

Walkways:

For heavy infestations, spray or swab surface with a solution of 1 Tbsp. of MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) 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 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 birdbath and spray the exposed surface with a solution of 1 Tbsp. of MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) per gallon of water (3/4 tsp./quart). Allow to air dry and brush off dead algae.

*** Fountains, Water Displays, Decorative Pools/Ponds and Standing Water:**

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" solution (1 part MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) to 4 parts water around the edges where visible algae growth is evident. Apply 12 oz. of use solution per 1000 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. **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.

Decorative Pool Applications:

Initial Dosage: 1 tsp. per 52 gallons of water (5 ppm*)
 1 oz. per 312 gallons of water (5 ppm)
 1 pint per 5,000 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. of product per gallon of water.

Operating Fountains:

Initial Dosage: Add a 0.5 tsp. of concentrated MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) 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.

*** Not for use in California.**

ORCHIDS (Continued)

Species	Diseases Controlled	Rate/Gal. of Water	Additional Information
Orchids — Dividing Plants		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.
Orchids — Adult Plants		2 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 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> , et al)	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 tsp.	Spray plants weekly with solution, assuring coverage around and in base of leaves.

HORTICULTURAL USAGES (Not for use in California)

Species	Diseases Controlled	Rate/Gal. of Water	Additional Information
Bulbs: such as Daffodils, Easter lilies, Gladioli, Hyacinth, Iris, Narcissus, Tulips	Fusarium basal rot	1 Tbsp.	Prestorage: treat the corms and bulbs immediately after they are "cleaned" by soaking them for 10 minutes in the solution. Preplant: treat again immediately before planting.
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 tsp.	Flower spikes should be hardened in solution during harvesting and storage to help control the transfer of diseases.
Plant Cuttings: such as Begonias, Carnations, Chrysanthemums, Fuchsias, Geraniums	Carnation rust, Crown gall, Gray mold leaf spots and Powdery mildew	2 tsp.	Soak cuttings 2-5 minutes in the solution. Plant in compost drenched with the solution.
Seedlings	Damping off	2 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 tsp.

ORCHIDS

Species	Diseases Controlled	Rate/Gal. of Water	Additional Information
Orchids — Seedlings	Damping off (caused by Pythium, Fusarium or Rhizopus)	1.5 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.

ORNAMENTAL USAGES (Not for use in California)

Whenever possible, remove and destroy dead and/or infected plant parts before applying MONTEREY M-20.

Species	Diseases Controlled	Rate/Gal. of Water	Additional Information
Aucuba Dahlia Fuchsia Geranium Gladiolus Peony Pieris	Botrytis	2 tsp.	Spray buds and blooms lightly at first sign of disease, and repeat 2-3 times per week as needed.
	Downy mildew Gray mold	2 tsp.	Spray at first sign of disease repeating at 7-14 day intervals.
	Rust	2 tsp.	Spray at 7-14 day intervals during the wet periods starting in early Summer.
Begonias Ferns Gesneria	Bud rot Leaf spots Gray mold Shoot rot	1 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 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.
Calendulas China Asters Chrysanthemum Dahlias Lilac, etc.	Powdery mildew	2 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 tsp.	Spray at first sign of disease and repeat at 7-10 day intervals.
	Gray mold rot	2 tsp.	Spray 1-2 times just before bloom and again as flowers are opening.
Crassula Kalanchoe Sedum	Crown gall Crown rot Root rot	2 tsp.	Destroy infected plant parts and drench the remainder. Spray plants weekly as needed.
Dogwood	Anthracoese Leaf blight Leaf spots	2 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.
Fuchsia Gardenia Geranium Heliotrope	Bud rot Gray mold Stem rot	2 tsp.	Spray at first sign of disease and repeat weekly as needed.
Hawthorn	Rust	2 tsp.	Begin protective spraying with new leaf formation after winter dormancy but before onset of rainy season. Thoroughly spray undersides of infected leaves.
Hawthorn (Crataegus)	Leaf blights	2 tsp.	Make 3 applications: begin when leaves emerge from buds, when leaves are half grown, and again when fully grown.
Hollyhock	Rust	2 tsp.	Apply at weekly intervals as soon as growth begins. Repeat applications in late Summer.
Iris	Botrytis Crown rot Gray mold rot	2 tsp.	Treat all new rhizomes and 3-4" of leaves in the solution for 30 minutes. Plant at once while still wet with solution.
	Leaf spots	2 tsp.	Spray weekly with solution while leaves are growing.

ORNAMENTAL USAGES (Not for use in California)

(Continued)

Species	Diseases Controlled	Rate/Gal. of Water	Additional Information
Ornamental Trees such as Sycamore Ash Crape Myrtle Live Oak, etc. NOTE: Commercial application is required for large mature trees.	Anthracoese	2 tsp.	Spray upper and undersides 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 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.
Palms	Heart rot Penicillium leaf base rot	2 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.
Roses	Black spots Powdery mildew Rusts Stem gall	2 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 tsp.	Begin spray applications in early Spring when new growth starts and repeat weekly until plant is dormant.
Rubber Plant	Anthracoese Crown gall	1 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 (Botrytis) Powdery mildew Root rot	3/4 tsp.	Dip entire plant and pot in the solution for 5 minutes. Thereafter, spray every 10 days as needed.
Snapdragons	Anthracoese Downy mildew Phyllosticta blight Powdery mildew Stem rot Wilt	2 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 tsp.	Apply at 7-10 day intervals as soon as plants are set out. Collect and burn tops in the Fall.

TREATMENT OF LAWNS (Not for use in California)

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 one tablespoon (1/2 oz) MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) per gallon of water. Treat at the rate of one gallon of solution to 40 square feet (4 ft. x 10 ft.) of lawn. Treat entire lawn to prevent spread of infection or 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 lawn is dry or damp, but not during wet rainy weather.

MOSQUITO CONTROL (Not for use in California)

When used as directed, MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) is effective as an ovicidal, larvicidal, 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 controls mosquitoes where they breed (fountains, water displays, decorative pools, decorative ponds, spas, hot tubs, swimming pools and standing water (in such places as old tires, empty tin cans, barrels, puddles, and water drains around buildings). 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 MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) will not harm poolside plantings. DO NOT use when fish are present.

INITIAL DOSAGE				
MONTEREY M-20 (Fungicide/Algaecide/Disinfectant)		per	Unit water for 200 ppm*	
Metric	U.S.		Metric	U.S.
3.8 cc	0.13 oz.		3.78 l	1 gal.
38.0 cc	1.28 oz.		37.85 l	10 gal.
380.0 cc	12.8 oz.		378.5 l	100 gal.

Treat water by "dribbling" MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) solution around the edges of the site to be treated.

* ppm — parts per million active ingredient.

WEEKLY MAINTENANCE				
MONTEREY M-20 (Fungicide/Algaecide/Disinfectant)		per	Unit water for 100 ppm*	
Metric	U.S.		Metric	U.S.
1.9 cc	0.065 oz.		3.78 l	1 gal.
19.0 cc	0.64 oz.		37.85 l	10 gal.
190.0 cc	6.4 oz.		378.5 l	100 gal.

Each week repeat maintenance dosage or add MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) using a test kit to maintain the proper concentration.

* ppm — parts per million active ingredient.

OTHER USES

*** Mildewstat** - Tabletops, floors, walls. To control mold and mildew on pre-cleaned hard, non-porous surfaces, apply a solution of 1½ oz. [3.0 Tablespoons] of MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) 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 teaspoon of MONTEREY M-20 (Fungicide/Algaecide/Disinfectant) per 15 gallons of water every other week.

***Not for use in California.**

STORAGE AND DISPOSAL

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

Storage: Store in original container. Place in locked storage inaccessible to children, pets and others unfamiliar with product use.

Container Disposal: If empty: Do not reuse 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 any unused product down any indoor or outdoor drain.

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.

LIMITATION OF LIABILITY: As permitted by state law, 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 INCONSISTENT WITH THE LABEL. DAMAGES CAUSED BY THIS PRODUCT ARE LIMITED TO REPLACEMENT OF THE PRODUCT OR RETURN OF THE PURCHASE PRICE.

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