

MATERIAL SAFETY DATA SHEET

MONTEREY R•D•20® DISINFECTANT

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Issue Date: 10/99

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Chemical Product

MONTEREY R•D•20® DISINFECTANT

EPA Reg. No. 53642-1-17545

Common Name: Liquid algicide, disinfectant and fungicide.

Chemical Description: Mixture of quaternary ammonium compounds.

TSCA/CAS No.: This product is a mixture — there is no specific CAS number.

Manufactured For:

Monterey Chemical Company

P. O. Box 35000

Fresno, CA 93745-5000

Emergency Phone Numbers

Emergency Telephone: DAYS: (559) 499-2100 EVES.: (559) 431-7390

CHEMTREC (24-Hour Emergency Number): (800) 424-9300

EPA National Response Center: (800) 424-8802

SECTION 2. HAZARDOUS INGREDIENTS

CHEMICAL	CAS NO.	%	TLV OR PEL	RQ (lbs)
n-Alkyl (60%C ₁₄ , 30%C ₁₆ , 5%C ₁₂ , 5%C ₁₈) dimethyl benzyl ammonium chloride	68391-01-5	10.0	N.A.*	N.P.*
n-Alkyl (68%C ₁₂ , 32%C ₁₄) dimethyl ethylbenzyl ammonium chloride	68956-79-6	10.0	N.A.	N.P.
Ethyl alcohol	64-17-5	2.5	N.A.	N.P.

*N.A. - Not Available.

*N.P. - Not Pertinent.

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Light amber liquid with benzaldehyde odor. Corrosive. Harmful or fatal if swallowed. Causes severe eye and skin damage. D.O.T. regulated material.

HEALTH: 3 REACTIVITY: 0 FLAMMABILITY: 0 ENVIRONMENT: 2

(0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme)

SECTION 4. FIRST AID

Eyes: Flush eyes with plenty of water for 15 minutes and call a physician.

Skin: Flush skin with plenty of soap and water for at least 15 minutes.. Get medical attention if irritation persists.

Ingestion: Drink egg whites, gelatin solution or, if these are not available, drink large quantities of water. Call a physician or Poison Control Center immediately.

Note to Physician: Probably mucosal damage may contraindicate the use of gastric lavage.

Inhalation: Remove victim to fresh air. Apply artificial respiration, preferably by mouth to mouth, if indicated. Seek medical attention.

SECTION 5. FIRE AND EXPLOSION HAZARDS

Flash Point:	200°F
Test Method:	Pensky-Martens Closed Cup
LEL Flammable Limits:	4%
UEL Flammable Limits:	19%
Autoignition Temperature:	Not pertinent.
Flammability Classification:	Noncombustible.
Known Hazardous Products of Combustion:	Not known.
Properties that Initiate/Contribute to Intensity of Fire:	None.
Potential For Dust Explosion:	None.
Reactions that Release Flammable Gases or Vapors:	None known.
Potential For Release of Flammable Vapors:	None known.
Unusual Fire & Explosion Hazards:	None known.
Extinguishing Media:	Water.
Special Firefighting Procedures:	Stay upwind of smoke. Wear positive pressure, self-contained breathing apparatus and goggles. Contain any liquid runoff.

SECTION 6. SPILLS AND LEAKS

Containment:	Prevent product spillage from entering drinking water supplies or streams.
Clean Up:	Collect liquid or absorb onto absorbent material and package for disposal according to local, state and federal regulations.
Evacuation:	Not necessary but restrict entry.

SECTION 7. STORAGE AND HANDLING

Storage:	Store in plastic or stainless steel container in a cool, well-ventilated, dry place at temperatures above 40°F. Do not contaminate water, food, feeds, seeds, fertilizers, insecticides or fungicides. Do not stack pallets more than two (2) high.
Transfer Equipment:	Transfer product using chemical-resistant plastic or stainless steel tanks, pumps, valves, etc.
Work/Hygienic Practices:	Do not get in eyes, on skin or on clothing. Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, shoes and socks and protective eyewear. Avoid contamination of feed or food products.

SECTION 8. PERSONAL PROTECTIVE EQUIPMENT

Eyes:	Protective eyewear.
Skin:	Long sleeved shirt, long pants, waterproof gloves, and shoes plus socks.
Respiratory:	Use NIOSH-approved dust/mist respirator (such as 3M #8710).
Ventilation:	Recommended but no TLV established.

SECTION 9. PHYSICAL AND CHEMICAL DATA

Appearance:	Light amber liquid.
Odor:	Benzaldehyde odor.
pH:	7.0 - 8.0
Vapor Pressure:	Not available.
Vapor Density (Air = 1):	Not available.
Boiling Point:	100°C (212°F)
Freezing Point:	Not available.
Water Solubility:	Completely soluble.
Density:	8.2 lbs./gal.
Evaporation Rate (butyl acetate = 1):	Not available.
Viscosity:	Not available.
% Volatile:	Not available.
Octanol/Water Partition Coefficient:	Not available.
Saturated Vapor Concentration:	Not available.

SECTION 10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions To Avoid:	Strong acids or bases.
Incompatibility:	Unknown.
Hazardous Decomposition Products:	Burning may produce oxides of nitrogen.
Hazardous Polymerization:	Will not occur.

SECTION 11. POTENTIAL HEALTH EFFECTSAcute Effects:

Eyes:	Moderate irritant. Causes burning, irritation and redness.
Skin:	Moderate irritant. Causes burning, irritation and redness.
Ingestion:	Concentrate may be fatal. Causes difficulty breathing and circulatory shock. Acute Oral LD ₅₀ (rats) = 1000 mg/kg.
Inhalation:	Prolonged inhalation of vapors causes nausea, loss of motor skills and disorientation.

Subchronic Effects: Not available.

Chronic Effects: Not available.

SECTION 12. ECOLOGICAL INFORMATION

Algal/Lemna Growth Inhibition:	Not known.
Toxicity to Fish and Invertebrates:	Not known.
Toxicity to Plants:	Not known.
Toxicity in Birds:	Not known.

SECTION 13. DISPOSAL

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment washwaters. Dispose of waste effluents according to state and local regulations. Also, chemical additions or other alterations of this product may invalidate any disposal information in this MSDS. Therefore, consult local waste regulators for proper disposal. Do not discharge.

SECTION 14. TRANSPORTATION

D.O.T. Proper Shipping Description:	Not D.O.T. regulated.
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Other Shipping Description:	Disinfectants, N.O.I. NMFC Item 57100, LTL Class 85
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SECTION 15. REGULATORY INFORMATION

CERCLA: None.

SARA TITLE III, Section 313 Toxic Chemicals: None.

PROPOSITION 65: None.

SECTION 16. OTHER

All information appearing in this document was based on data provided by third party sources and was compiled to comply with the Federal Hazard Communication Standard and the California Hazardous Substances Information and Training Act. The information is believed to be accurate as of the preparation date, but is not warranted as being the final authority in the use of this product. This information does not purport to be legal or medical advice.