

Microgen, Inc.

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FAX 973-575-9075

Emergency Telephone

1-800-424-9300 Chemtrec

Health 3
Fire 2
Reactivity 0

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Section 1: Identity
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Trade Name: Microgen Quat-80
Chemical Family: Quaternary Ammonium Compound
Formula: $[R_1-N(CH_3)_2CH_2C_6H_5]^+Cl^- + [R_2-N(CH_3)_2CH_2C_6H_4C_2H_5]^+Cl^-$
Chemical Name: Alkyl (60% C₁₄, 30% C₁₆, 5% C₁₂, 5% C₁₈) dimethyl benzylammonium chloride
plus Alkyl (68% C₁₂, 32% C₁₄,) dimethyl ethylbenzylammonium chloride
C.A.S. No.: 68391-01-5
68956-79-6

D.O.T. Proper Shipping Name: Disinfectants, Liquid, Corrosive NOS (Quaternary Ammonium Compound), 8, UN1903, P.G.II
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Section 2: Hazardous Ingredients
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	<u>Weight</u>	<u>TWA/TLV</u>
Alkyl dimethyl benzyl ammonium chloride	40.0%	ND
Alkyl dimethyl ethylbenzyl ammonium chloride	40.0%	ND
Ethanol C.A.S. No. 64-17-5	10% - 15%	1000 ppm
Water		

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Section 3: Physical and Chemical Characteristics (Fire & Explosion Data)
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Boiling Point: ND	pH 6-8
Percent Volatile (by weight) 20%	Evaporation Rare Butyl Acetate = 1 ND
Solubility In Water: Soluble	Vapor Pressure approximately 38mmHg
Appearance and Odor: Colorless to light straw in color Benzaldehyde Odor	
Specific Gravity: (H ₂ O = 1) 0.93	Auto Ignition Temp.: ND
Flash Point: 103°F PMCC	Lower Explosion (%): ND
	Upper Explosion (%): ND

Extinguishing Media: Dry Chemical, Water Fog, CO₂, Foam

Special Fire Fighting Procedures:

Cool fire exposed containers with spray, Must wear MSHA/NIOSH approved self contained breathing apparatus.

Unusual Fire Explosion Hazards:

Explosive mixtures can form with air. Combustion products are toxic. Solvents vapors can travel to an ignition source and flash back.
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Section 4: Physical Hazards
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Stability: Stable Conditions to avoid: NA
Incompatibility: Strong oxidizers or reducing agents Conditions to avoid: Mixing with strong oxidizers or reducing agents
Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Toxic hydrogen chloride fumes, oxides of carbon and nitrogen

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Section 5: Health Hazards
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Routes of Entry: Skin Contact, Inhalation, Eye Contact.

Inhalation: Irritation of mucous membrane can be caused by solvent vapors or mists of products.

Eye Contact: Corrosive. Severe eye damage can result from direct contact.

Skin Contact: Severe Irritation. Corrosive.

Ingestion: May be fatal. Burning pain in the mouth, throat, abdomen, severe swelling of the larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory shock, convulsions.

First Aid:

Skin and eye: In case of contact, immediately flush the eyes and skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

Ingestion: If swallowed drink promptly, a large quantity of egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately. Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Chemicals Listed as Carcinogen by:

OSHA -NO

I.A.R.C. Monographs -NO

National Toxicology Program -NO
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Section 6: Toxicity
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Acute Oral LD₅₀ 500 mg/kg for males

Acute Dermal greater than 2000 mg/kg

Primary Skin - Severe Irritant. Corrosive.

Primary Eye - Corrosive
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Section 7: Special Protection Information
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Ventilation type: mechanical (Explosion proof)

Respiratory Protection: None required if good ventilation is maintained. For mist or vapor wear NIOSH Approved respirator.

Protective Gloves: Rubber or Neoprene

Eye Protection: Splashproof safety goggles

Other Equipment: Impervious apron, eyewash facility, emergency shower, faceshield.
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Section 8: Special Precautions and Spill/Leak Procedure
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Handling and Storage: Keep from freezing. Store in original container.

Spill and Leak Procedure: Remove ignition sources. Wear respirator. Small spills may be mopped up, flushed away with water or absorbed on some absorbent material and incinerated. Large spills should be contained; the material then moved into containers and disposed of by approved methods for hazardous wastes.

Waste Disposal: Incinerate. Make sure that all federal, state and local regulations are observed.

The seller makes no warranty expressed or implied concerning the accuracy or any results to be obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER-CORROSIVE**

KEEP OUT OR REACH OF CHILDREN. Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin or on clothing. Do not breathe dust, vapor or spray mist. Wear a dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21(C), or a NIOSH approved respirator with any N, R, P or HE filter. Wear goggles or face shield, rubber gloves and protective clothing when handling. Prolonged or frequent skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
IF ON SKIN OR CLOTHING: 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: 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 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.
IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. 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 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 AND CHEMICAL HAZARDS

Do not use or store near heat or open flame.
Do not mix with oxidizers, soap or other anionic materials.

MICROGEN QUAT 80

For Formulation into Antimicrobial Products

ACTIVE INGREDIENTS

n-Alkyl (60% C₁₄, 30% C₁₆, 5% C₁₂, 5% C₁₈)
dimethyl benzyl ammonium chloride..... 40.0%
n-Alkyl (68% C₁₂, 32% C₁₄)
dimethyl ethylbenzyl ammonium chloride..... 40.0%

INERT INGREDIENTS..... 20.0%
TOTAL..... 100.0%

Weight Approx. 7.75 lb./gal.

KEEP OUT OF REACH OF CHILDREN

DANGER

See left panel for additional precautionary statements

E.P.A. Reg. No. 10324-27-61178
E.P.A. Est. No. 10324-IL-1

Sold by
MICROGEN INC
33 Clinton Road, Suite 102
West Caldwell, NJ 07006

NET CONTENTS : 55 Gallons

BATCH NO.

APPROVED

M. Amodeo
8-6-03

DIRECTIONS FOR USE
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

For formulation into antimicrobial products for use in agricultural/farm premises, structures, buildings, and equipment; dairy farm milk handling facilities, equipment, storage rooms, houses and sheds; food processing plant, food handling, food distribution equipment and premises; eating establishment premises and equipment; commercial, institutional, and industrial premises and equipment (floors, walls, storage areas); domestic dwellings; food handling areas; bathroom premises (hard surfaces); indoor premises; and medical institutional critical care and noncritical premises and laundry. For formulation into antimicrobial products for use in air conditioner/refrigeration condensate water systems, air washer and industrial scrubbing systems, once-through and recirculating industrial/commercial cooling water systems, pulp/paper mill water systems, and swimming pools. Gas/oil drilling muds/packer fluids, mushroom houses/empty premises equipment, egg handling equipment and rooms, poultry processing plant equipment/ premises, meat processing plant/equipment, gas oil recovery/injection water systems.

Formulators using this product are responsible for providing data for the EPA registration of their formulated products.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Open dumping is prohibited. Store only in original container. Do not reuse empty container. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use. Keep from freezing.

PESTICIDE DISPOSAL: Pesticide wastes are acutely 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.

SPILL OR LEAK PROCEDURES: Small spills may be mopped up, flushed away with water or absorbed on some absorbent material and incinerated. Large spills should be contained; the material then moved into containers and disposed of by approved methods for hazardous wastes.

CONTAINER DISPOSAL: (Larger than 1 gal.) - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. In addition, plastic containers may be disposed of by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.