

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

KEEP OUT OR REACH OF CHILDREN. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. May be fatal if swallowed or absorbed through skin. Avoid contamination of food. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

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.

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.

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, wood preservation, egg handling equipment and rooms, egg washing treatment poultry processing plant equipment/ premises,

**MAQUAT
MC1416-50%**

ACTIVE INGREDIENT:

n-Alkyl (60%C₁₄,30%C₁₆,5%C₁₂,5%C₁₈)
dimethyl benzyl ammonium chloride..... 50.0%

INERT INGREDIENTS:.....50.0%

TOTAL:..... 100.0%

Weight Approx. 8 lb./gal.

**KEEP OUT OF REACH
OF CHILDREN**

DANGER

See left panel for additional precautionary
statements

**MASON CHEMICAL COMPANY
"THE QUATERNARY SPECIALISTS"**

721 W. Algonquin Road
Arlington Heights, IL 60005
847-290-1621
Toll Free
1-800-362-1855

E.P.A. Reg. No. 10324-8
E.P.A. Est. No. 10324-IL-1

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.

~~APPROVED~~
with COMMENTS
in EPA Letter Dated:

JUN 11 2002

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 10324-8

NET CONTENTS

BATCH NO.

10324-8

6-11-2002

1/3



MASON CHEMICAL COMPANY

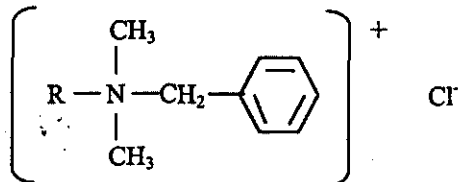
technical information



2/3

MAQUAT MC1416 SERIES

Information Sheet



R = 5% C₁₂, 60% C₁₄, 30% C₁₆, 5% C₁₈

Chemical Description

n-Alkyl Dimethyl Benzyl Ammonium Chloride (68391-01-5)

U.S. EPA Registration Number

Maquat MC1416-50%
10324-8

Maquat MC1416-80%
10324-9

Applications

The Maquat MC1416 products provide a broad spectrum of bacteriological control at an economical price. Maquat MC1416 quats are used in disinfectant, deodorizer, fungicidal and sanitizer formulations for hospital, nursing homes, public institutions and industry. The Maquat MC1416 products are also effective algacides in swimming pool and industrial water treatment. Maquat quats are compatible with cationics, nonionics and amphoterics at the proper pH range as well as alkaline and acid inorganics and most mineral and organic acids.

Active Ingredients

n-Alkyl (5% C₁₂, 60% C₁₄, 30% C₁₆, 5% C₁₈)
Dimethyl Benzyl Ammonium Chloride
Inert Ingredients
Total

Maquat MC1416-50%

50%
50%
100%

Maquat MC1416-80%

80%
20%
100%

Typical Properties

Appearance @25°C
Specific Gravity @25°C, g/ml (lbs/U.S.gal)
pH, 10% aqueous
Color, APHA
Free amine and amine hydrochloride, %
Average Molecular Weight
Viscosity, cps @25°C
Flash Point, PMCC, °C (°F)

Clear liquid
0.96 (8.0)
7.0
100 max
1.0 max
380
120
49 (120)

Clear liquid
0.93 (7.8)
7.0
150 max
1.5 max
380
450
54 (129)

ACCEPTED
with COMMENTS
in EPA Letter Dated:
JUN 11 2002

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 10324-8

Toxicity

Maquat MC1416 products are slightly toxic orally and cause severe skin and extreme eye irritation.

Storage & Handling

Handle Maquat products with care; use away from sparks and open flame. Use in well ventilated area. Avoid contact with eyes, nose or prolonged skin contact. Gloves, protective clothing, safety goggles and face shield should be worn when handling Maquat products. Wash thoroughly after handling material.

Standard Packaging: Maquat MC1416 products are available in bulk quantities and in plastic drums (440 lb. for Maquat MC1416-50% and 425 lb. for Maquat MC1416-80%).

It is recommended that Maquat products be stored in sealed containers and kept in a cool dry place. If material is frozen it should be heated gently and stirred to ensure it is homogeneous before use. Maquat products are not damaged by freezing.

Bulk Storage Information: Maquat quaternaries can be stored in vessels of 316 stainless steel or fiberglass with a corrosion liner. Contact between quaternaries and anionic materials, soap and sulfated oils must be avoided. At use dilution, Maquat quaternaries are non-corrosive to most plastics, natural rubber, stainless steel, monel metal, iron, brass, aluminum, lead and tin; however, Maquat quaternaries as supplied, may be corrosive to the materials listed above.

Maquat products should be stored between 85 - 120°F. An internal hairpin coil of 316 stainless steel with low pressure steam (under 50 psig) should be used if heating is required. On fiberglass tanks an external electric heating blanket can be used. Mild agitation is recommended while storing to maintain homogeneity. Pumps, pipes and transfer lines should be 316 stainless steel. Hoses made of Teflon or cross-linked polyethylene with 316 Stainless Steel fittings are recommended for loading and unloading.

Registration

In the U.S. and Canada all products which are sold and claimed to be bacteriostatic, germicidal, algacidal or to kill or inhibit organisms in any way are required to be registered either with the U.S. Environmental Protection Agency or with Health Canada. Formulators are responsible for any additional data or fees which may be required by local, state or country agencies.