

10324-45

10-01-2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

OCT -1 2009

Ms. Elizabeth Tannehill  
Mason Chemical Company  
721 W. Algonquin Rd.  
Arlington Heights, IL 60005

Subject: Maquat MC1412-50%-S  
EPA Registration No.: 10324-45  
Amendment Date: June 29, 2009  
EPA Receipt Date: July 6, 2009.

Dear Ms. Tannehill,

The following amendment, submitted in connection with registration under FIFRA, as amended, is acceptable with the conditions listed below.

**Proposed Amendment**

- Revise Swimming Pool directions
- Update Container Disposal Statements

**Conditions**

Revise the label as follows:

- 1.) Revise the first statement under Environmental Hazards section to be in agreement with the ADBAC RED by adding the phrase, "... and aquatic invertebrates."
- 2.) Revise the second and third statements under "Maintenance" on page 2 and second statement under "Maintenance" on page 3 by bringing them into compliance with PR Notice 2000-5, Mandatory Labeling by deleting the term, should, and stating "must."
- 3.) Revise the "Storage and Disposal" statements on page 5 to be in compliance with PR Notice 2007-4 by doing the following:

a) Delete the first two sets of "Storage and Disposal" Statements.

b) Revise the "Container Handling" statements for Institutional/Commercial/ Industrial containers by revising the heading to read "*Container Disposal*" and deleting the

**CONCURRENCES**

SYMBOL							
SURNAME							
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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

statements, "Triple rinse (or equivalent). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. f rinsate cannot be used, follow pesticide disposal instructions. If not triple rinsed, these containers are acute hazardous wastes and must be disposed."

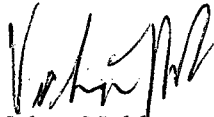
c) Revise the container size to read less than 5-gallons and greater than 5-gallons under the "Residue Removal Instructions."

**General Comments**

A stamped copy of the accepted label with conditions is enclosed. Submit one (1) copy of your final printed label before distributing or selling the product bearing the revised labeling.

Should you have any questions concerning this letter, please contact Velma Noble at (703) 308-6233.

Sincerely,



Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510P)

**CONCURRENCES**

CONCURRENCES								
SYMBOL								
SURNAME								
DATE								



**MASON CHEMICAL COMPANY**

**"The Quaternary Specialists"**

721 W. Algonquin Road | Arlington Heights, IL 60005 | 847-290-1621 or 800-362-1855

EPA Reg. No. 10324-45

EPA Est. No. 10324-IL-1

**MAQUAT<sup>®</sup> MC1412-50%-S**

Net Contents

Batch No

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS  
AND DOMESTIC ANIMALS**

**DANGER. Keep Out of Reach of Children.** Corrosive. Causes irreversible eye damage and skin burns. Do not get into eyes or on clothing. Wear protective eyewear (safety glasses), clothing and protective gloves (goggles, face shield, or safety glasses). May be fatal if inhaled, swallowed, or absorbed through skin. Do not breath (dust, vapor, or spray mist). Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Remove contaminated clothing and ash clothing before reuse.

*(If container is 5 gallons or larger the following statement must appear on the label)*

**ENVIRONMENTAL HAZARD**

This pesticide is toxic to fish and aquatic invertebrates. 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 the 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.

*(If container is less 5 gallons use the following environmental hazard statement.)*

**ENVIRONMENTAL HAZARD**

This product is toxic to fish.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame. Do not mix with any other chemicals.

*(Note to Reviewer: This information has been verified per DOT regulations. It is NOT required to be on the label but is being requested by a customer.)*

**Transportation Information**

**DOT Hazard Class:** 8 Corrosive

**DOT Proper Shipping Name:** Disinfectant Liquid Corrosive (Quaternary Ammonium Compound), 8, UN1903, PGIII

**PELIGRO: SI NO PUEDE LEER EN INGLES, PREGUNTE A SU SUPERVISOR SOBRE LAS INSTRUCCIONES DE USO APROPIADAS ANTES DE TRABAJAR CON ESTE PRODUCTO.**

Manufacturing and/or Lot no. Date:

For Control of Algae and Algae Slime Growth in Swimming Pools and (Outdoor) Spas, Whirlpools and Hot Tubs Baths, (Containerized) Decorative Fountains.

*("Containerized", "Outside" description not for use in California.)*

**ACTIVE INGREDIENTS**

n-Alkyl (50%C<sub>14</sub>, 40%C<sub>12</sub>, 10%C<sub>16</sub>)  
dimethyl benzyl ammonium chloride ..... 50.00%

**INERT INGREDIENTS:** ..... 50.00%

**TOTAL:** ..... 100.00%

Product weighs 8 lbs. per gallon

**KEEP OUT OF REACH OF CHILDREN**

**DANGER PELIGRO**

See left (back), (side) (right) panel (of label) (below) for additional precautionary statements and first aid statements

**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 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 advise. 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.

**ACCEPTED  
with COMMENTS  
in EPA Letter Dated:**

OCT 1 - 2009

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 10324-45

MAQUAT® MC1412-50%-S is compatible with many swimming pool chemicals and when used as directed it is not harmful to the metal paint, plastic or tile surfaces of the swimming pool.

MAQUAT® MC1412-50%-S, when used as directed, will help improve the appearance and cleanliness of the swimming pool water.

MAQUAT® MC1412-50%-S helps inhibit the growth of unsightly algae.

MAQUAT® MC1412-50%-S, when properly stored for prolonged periods of time, will not lose its effectiveness or strength.

MAQUAT® MC1412-50%-S requires no special equipment for treating swimming pool water. The correct use-dilution may be added directly to the pool in any spot, or added to the water-circulation equipment.

This product is efficient and stable in use dilution.

This product is compatible with most chemicals used in pool water and will not damage tile, concrete, metal or plastics.

This product keeps pool water free and sparkling, clear of visible green and blue-green algae, slime and green brown colors.

This product improves filter operation and reduces need for other chemicals.

This product imparts tone and a pleasant "feel" to swimming pool water.

This product is formulated to complement swimming pool water being treated with normal chlorine systems. It is especially effective against growth of algae and being non-volatile, aids in maintaining pool water clarity and sparkle. The residual effectiveness of this algaecide tends to stabilize the total chemical treatment system.

This product is compatible with most chemicals normally used in swimming pool maintenance. However, in its concentrated form, this chemical must not come in contact with high concentrations of chlorine or any other oxidizer. **DO NOT MIX THIS PRODUCT AND CHLORINE OR ANY OTHER OXIDIZER TOGETHER** before adding to the pool. These chemicals must be handled separately.

This product was formulated to complement most swimming pool sanitizers. This product is not a stand-alone product. It must be used with either halogen based or non-halogen based pool sanitizers. This product supports your overall pool chemical maintenance program, offering a residual effectiveness that protects your pool against algae formation while keeping your pool water sparkling clear. This product protects the unattended pool when you're away (refer to Vacation Treatment section under Directions For Use).

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Please read entire label and use strictly in accordance with precautionary statements and directions.

#### APPLICATION FOR SWIMMING POOLS

This product requires no special equipment for treating swimming pool water. The correct use dilution may be added directly to the pool in any spot or added to the water circulation equipment. This product works best when added by itself directly to pool water.

#### INSTRUCTIONS FOR USE WITH HALOGEN BASED POOL SANITIZERS

This product is formulated to complement most swimming pool sanitizers. When using other products as outlined in Directions For Use on those products, always follow

Directions For Use of those products. This product is effective against the growth of algae. This product is efficient and non-staining when used as directed. This product will not evaporate and its algae fighting abilities actually increase as pool water temperature increases.

Ensure all pool equipment is working properly. Backwash the filter system following manufacturer's directions. Adjust pH to between 7.2-7.6. In outdoor chlorine treated pools, add stabilizer to establish a minimum level of 40-50 ppm to reduce the degradative effects of sunlight upon the chlorine residual. Check for metals and if present add a stain and scale inhibitor to prevent staining of pool surface due to metal. Maintain sanitizer residual in accordance with label directions found on your sanitizer of choice. This product is effective in controlling the growth of the following types of algae: *Chlorella pyrenoidosa* (green algae), *Phormidium inundatum* (blue-green algae) and *Phormidium nitzii*. When using other products as outlined in directions for this product, always follow directions on those products.

1. **Dosages** – For pools, which are, free of algae or contain algae growth.

**Initial Application:** For an initial application, pour directly into pool at a rate of 7.68 ounces of this product per 15,000 gallons of water (2 ppm). More rapid distribution will be achieved by pouring a portion of the specified amount into several areas of the pool until all of the required quantity has been added. Recirculation accomplished by running the filter will assure rapid dispersion of product.

**Maintenance:** Pour directly into pool at a rate of 6.4 ounces per 50,000 gallons of water (.5 ppm) every 3-5 days depending on weather and use factors. After each rain of consequence, add 6.4 ounces per 50,000 gallons water. Even when the pool may not be in use for periods of time, algaecide additions must be made since a heavy accumulation of algae growth is difficult to remove. The appropriate amount of this product must be added by pouring a portion of the specified amount into several areas of the pool until the required quantity has been added. Recirculation accomplished by running the filter will assure rapid dispersion of product.

2. **Reentry interval:** Swimmers are allowed to re-enter the pool 15 minutes after application of the product.

3. Ensure that water quality conditions are maintained for the successful use of the product.

#### Booster Application

Add 6.4 ounces of this product in 50,000 gallons of water after a heavy or prolonged rainfall or when there is a heavy bathing load.

The above directions must be followed even when the pool is not in use.

If algae growth is noticeable, apply initial dose.

#### Vacation Treatment

When you are going to be away for one week or more add 4.75 ounces of this product per 10,000 gallons of water for every week unattended. Pour product around the edges of the shallow end of the pool, if shock is also being applied in the deep end of pool.

#### For Winterizing Pools Before Freezing (not applicable in California)

Test the water and adjust to the proper levels.

After pool is no longer in use, super-chlorinate, using a recommended winter shock treatment, according to label directions. Allow pump to circulate for several hours or overnight.

Add winterizing algaecide directly to pool water, walking around the pool, so that it is evenly distributed. Use at the rate of 25.6 ounces per 50,000 gallons. Allow to circulate for a few hours.

Clean pool water line, shut down filter, drain pump, and winterize as per manufacturer's instructions. Cover with a solid cover if possible. Pools without a solid cover may need a second treatment later in the non-swimming season.

#### OPTIONAL INSTRUCTIONS FOR USE WITH NON-HALOGEN BASED POOL SANITIZERS

This product is formulated to complement swimming pool water being treated with the BioGuard Softswim System, Bacquacil and other non-halogen systems. When using other products as outlined in Directions For Use for this product, always follow Directions For Use of those products. This product is efficient and non-staining when used as directed. This product will not evaporate and its algae fighting abilities actually increases as the pool water temperature increases. The residual effectiveness of this product tends to stabilize the total chemical treatment system.

Ensure all pool equipment is working properly. Backwash the filter system following manufacturers' directions. Adjust pH between 7.2-7.6. Check for metals and if present add satin and scale inhibitor to prevent staining of pool surface due to metals.

Add this product directly into pool by pouring around entire outside perimeter of pool. Allow the filter to run for at least six (6) hours after adding algaecide. During this period, do not allow swimmers in the water.

**Initial Application For Swimming Pools** (Note to reviewer: The term "to waste" is not for use in California.)

1. Backwash the filter thoroughly.
2. Vacuum algae debris (to waste) and thoroughly brush pool.
3. Add one gallon of this product to each 50,000 gallons of water (26 ounces per 10,000 gallons) or ratio thereof.
4. Vacuum pool after 24 hours to remove dead algae.
5. If algae is still visible repeat dose (steps 3 & 4) as necessary until pool is free of visible algae.
6. Once algae are under control, clean filter and return to normal operation.

#### Maintenance Application

Add 32 ounces of this product in 50,000 gallons of water every 3-5 days or as needed.

#### Booster Application

Add 32 ounces of this product in 50,000 gallons of water after a heavy or prolonged rainfall or when there is a heavy bathing load.

The above directions must be followed even when the pool is not in use.

If algae growth is noticeable, apply initial dose.

#### Vacation Treatment

When you are going to be away for one week or more add 24 ounces of this product per 10,000 gallons of water for every week unattended. Pour product around the edges of the shallow end of the pool, if shock is also being applied in the deep end of pool.

#### Winterizing Treatment (not applicable in California)

This product may be used with the following pool chemicals to form a winterization "package".

#### Directions:

1. Add a maintenance dose of chloride or oxygen shock.
2. Top up BioGuard Softswim System, Bacquacil or other non-halogen systems to 50 ppm.

3. Add 38.4 gallon per 15,000 (or ratio thereof) of water left in pool. This dose helps provide a measure of control of algae growth during the winter months. This treatment will also help the servicing of the pool before it is returned to use the following season.
4. Allow filter to run for several hours after chemical additions for good mixing.

**Note:** Before using chlorine or oxygen shock, read the Directions for Use and Precautionary Statements specific to that product.

(Usage chart for one-gallon containers)

Swimming Pool Capacity Gallon of Water	Initial Treatment	Maintenance Dose
2,500	1.28 ounces	0.32 ounces
5,000	2.60 ounces	0.64 ounces
10,000	5.12 ounces	1.28 ounces
15,000	7.68 ounces	1.92 ounces
20,000	10.24 ounces	2.56 ounces
25,000	12.80 ounces	3.20 ounces
50,000	25.60 ounces	6.40 ounces

#### TO DETERMINE POOL CAPACITY

**Rectangular Pools:** Length (times) width (times) average depth (in feet) (times) 7.5 (equals) gallons.

**Round and Oval Pools:** Long diameter (times) short diameter (times) average depth (in feet) (times) 5.9 (equals) gallons

#### DIRECTIONS FOR USE IN OUTDOOR SPAS, WHIRLPOOLS AND HOT TUBS

("Outdoor" description not for use in California)

**Initial Dose:** Add 2.6 ozs. of this product per 5,000 gallons of water. Initial dose is used upon filling of outdoor spas, whirlpools and hot tubs.

**Maintenance Dose:** Add 0.64 ozs. of this product per 5,000 gallons of water. Maintenance dose must be added at 3-5 day intervals. If high temperatures prevail or outdoor spas, whirlpools and hot tubs have unusual heavy use, add maintenance dose more frequently.

Drain and clean outdoor spa, whirlpool and hot tub at least once a month or as needed depending on bather load.

#### CONTROLLING ALGAE GROWTH

**BIRD BATHS:** Do not use with fish. Clean to remove algae growth prior to filling birdbath. Then spray all exposed surfaces with a solution of 0.2 ounces of this product per gallon of water. Allow to air dry and brush off dead algae.

**ALGAE CONTROL ON WALKWAYS:** For heavy infestations, spray or swab a solution of 0.2 ounces of this product 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. Allow to dry on the surface and repeat application when algae growth returns. (Not for use in CA)

#### INSTRUCTIONS FOR CONTAINERIZED DECORATIVE FOUNTAINS AND POOLS

(Note to Reviewer: "Containerized" description must be used in California.)

This product is toxic to fish. DO NOT use this product when fish are present.

#### Initial Dose:

1. Remove floating algae by raking, dragging with cable or chain or any other suitable method. It is more economical to remove floating type algae (if possible) before the water is treated.
2. Add this product at any point that is convenient, such as the bowl, pool, or sump.

3. Add 25.6 ounces of this product to each 50,000 gallons (6.4 ounces per 12,500 gallons) or ratio thereof.

**Weekly Maintenance Dose:** Add 6.4 ounces of this product to each 50,000 gallons of water every 3-5 days or as to maintain 0.5 ppm active.

Each month drain and clean bowl. Refill with fresh water and repeat initial treatment. Draining removes airborne dirt, dust, contamination and alkali buildup.

Decorative Fountain or Pools Capacity in gallons of water	Initial Treatment	Maintenance Dose Booster Dose
50,000	25.6 ounces	6.4 ounces
25,000	12.8 ounces	3.2 ounces
12,500	6.4 ounces	1.6 ounces
6,250	3.2 ounces	0.8 ounce
3,125	1.6 ounces	0.4 ounce
1,562	0.8 ounce	0.2 ounce
781	0.4 ounce	0.1 ounce
390	0.2 ounce	0.05 ounce
195	0.1 ounce	0.025 ounce

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## STORAGE AND DISPOSAL

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

*(FOR USE ON NON-REFILLABLE CONTAINERS WITH HOUSEHOLD/RESIDENTIAL USES)*

**PESTICIDE STORAGE:** Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**PESTICIDE DISPOSAL/CONTAINER HANDLING:** Non-refillable container. Do not reuse or refill this container. Triple rinse (or equivalent). Wrap and put in trash or offer for recycling if available.

**Batch Code:** *(Can be placed on container or label)*

*(FOR USE ON NON-REFILLABLE CONTAINERS WITH INSTITUTIONAL/COMMERCIAL/INDUSTRIAL USES)*

**PESTICIDE STORAGE:** Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**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.

**CONTAINER DISPOSAL:** Non-refillable container. Do not reuse this container to hold materials other than pesticides or diluted pesticides (rinsate). Offer for recycling for available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities in accordance with local, state and federal regulations.

**RESIDUE REMOVAL INSTRUCTIONS:** *(For containers less than five gallons)*

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: empty the remaining contents into application equipment or a mix tank and drain 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**RESIDUE REMOVAL INSTRUCTIONS:** *(For containers greater than five gallons)*

Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least a complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**BATCH CODE:** *(Can be placed on container or label)*

*(FOR USE ON REFILLABLE CONTAINERS)*

**PESTICIDE STORAGE:** Open dumping is prohibited. Store only in original container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

**CONTAINER HANDLING:** Triple rinse (or equivalent). Refill this container with this product only. Do not reuse this container for any other purpose.

**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.

**RESIDUE REMOVAL INSTRUCTIONS:** Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

## SECONDARY CONTAINER LABEL

(Note to Reviewer: This secondary container label will be used only when the product is diluted in accordance with the use directions.)

# MAQUAT MC1412-50%-S

E.P.A. Reg. No. 10324-45 E.P.A. Est. No. 10324-IL-1

The product in this container is diluted as directed on the pesticide product label.

### ACTIVE INGREDIENTS:

Alkyl (50%C<sub>14</sub>, 40%C<sub>12</sub>, 10%C<sub>16</sub>)  
dimethyl benzyl ammonium chloride.....50.0%

INERT INGREDIENTS: .....50.0%

TOTAL: .....100.0%

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER. Keep Out of Reach of Children.** Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through the skin. Do not get into eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**CONTAINER HANDLING:** Triple rinse (or equivalent). Refill this container with this product only. Do not reuse this container for any other purpose.

Follow the directions for use on the pesticide label when applying this product. See product label for Storage and Disposal instructions.

## MASON CHEMICAL COMPANY

"THE QUATERNARY SPECIALISTS"

721 W. Algonquin Road  
Arlington Heights, IL 60005

847-290-1621

Toll Free:

1-800-362-1855

