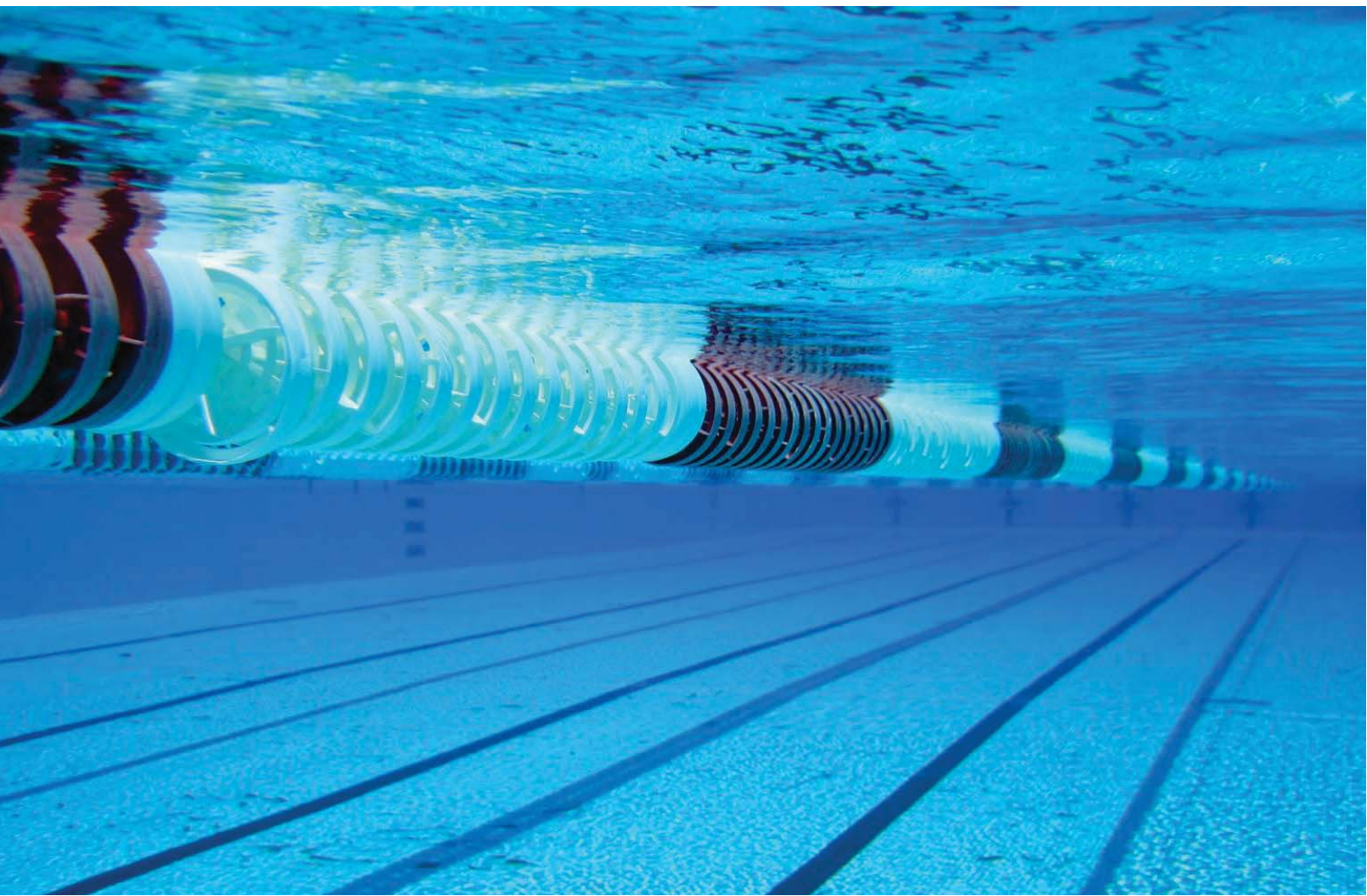




Division of
Water Treatment

**LEADERS
IN BIOTECHNOLOGY
PRODUCTS**

Swimming Pools Program



POLY QUAT

CAS Number- 68424-95-3 and 68424-85-1

POLY QUAT is a radically new development based upon atomes "Twin Chain" quaternary ammonium compound technology. **POLY QUAT**, when evaluated by accepted laboratory procedures, provides superior bactericidal, algacides and fungicidal activity far beyond that achieved with other available quaternary ammonium compounds. This provides the formulator with unequaled latitude in the design of biocidal products.

Chemical Composition – Typical

Active Ingredients POLY QUAT

Alkyl (C14 50%, C12 40%, C16 10%) Dimethyl Benzyl Ammonium Chloride 2.0%

Octyl decyl dimethyl ammonium chloride 1.5%

Dioctyl dimethyl ammonium chloride 0.6%

Didecyl dimethyl ammonium chloride 0.9%

Specifications

pH (1% Active Solution): 7.00

POLY QUAT contains 5% active polyquats.

DIRECTIONS FOR USE

1. Initial dosage for pool water having no visible algae is 200 mL of [PolyQuat] per 10,000 L of pool water.
2. Weekly maintenance dosage is 100 mL of [PolyQuat] per 10,000 L of pool water.
3. For pool water having visible algae, superchlorinate following label instructions of superchlorination product employed and wait at least 24 hours before adding weekly maintenance dosage.
4. For visible algae, when superchlorination is not employed, add 400 mL of [PolyQuat] per 10,000 L of pool water.

Summary of the superior performance characteristics of POLY QUAT :

Broad spectrum biocidal activity against both gram-positive and gram-negative organisms.

Increased hard water tolerance.

Superior fungicidal performance.

Fungicidal Activity

Test Organism Ten Minute Killing Dilution (100% Active)

Trichophyton mentagrophytes 1:8000 (125 ppm)



ATO ALUM

Aluminium Sulfate Coagulant (liquid Alum)

DESCRIPTION

ATO ALUM meets all specifications for American Water Works Association Standard AWWA B 403-93 and is approved by the National Sanitation Foundation NSF as meeting standard 60 for Potable Water use at maximum dosage of 150 mg/L.

PRINCIPAL USES

Coagulant for Potable, Swimming pools, Waste and Industrial Water Treatment
Additive for pulp & paper, metal dyes, catalytic and pigment industries

CONTAMINANT REMOVAL

Turbidity

Color

Solids and Colloids

Metals

Bacteria, Virus

Phosphate

COD/BOD, TOC

PHYSICAL PROPERTIES

Chemical Formula: $\text{Al}_2(\text{SO}_4)_3 \cdot 14\text{H}_2\text{O}$

Specific gravity: 1.328

% total Solids: 47%

% Al_2O_3 : 8.1

Oxychlor 12

Hypochlorite for swimming pool

DESCRIPTION

Environment-friendly, non-flammable, non-toxic, non-carcinogenic sodium hypochlorite based sanitizer that controls microorganisms such as bacteria, yeast and mold in influent processing water in different industries. Contains diverse sequestering, chelating and anti-corrosion agents.

AREA OF APPLICATION

Water and waste water plants, swimming pools.

INGREDIENTS

Sodium hypochlorite 16%.

PHYSICAL & CHEMICAL CHARACTERISTICS

- Physical state: **liquid**
- Odor and appearance: **chlorine – yellowish**
- pH (1%): **alkaline**
- Solubility: **complete**

STORAGE

Store at 20°C to 30°C, keep lid closed.

PACKING

- 20 liter pail.
- 205 liter drum.
- Other sizes available upon request.
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DIRECTION FOR USE

- For swimming pool: **Oxychlor 12** provides 120000 mg/L active. Make your calculations depending upon the water volume of the swimming pool in order to get either the maximum concentration of 1.5 mg/L or the minimum concentration of 0.5 mg/L.