

MATERIAL SAFETY DATA SHEET

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GENERAL INFORMATION NUMBER: (414) 354-6417
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I - Product Identification

SPA Swimming Pool Algaecide

PRODUCT CODE: 0420

CHEMICAL FORMULATION: Quaternary based disinfectant.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 2

FLAMMABILITY: 1

REACTIVITY: 0

HAZARD RATING: 4 - Extreme;

3 - High;

2 - Moderate;

1 - Slight;

0 - Insignificant

II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACGIH TLV	EPA 40 CFR:			CAS #
				302	355	372	
n-Alkyl (60% C ₁₄ , 30% C ₁₆ , 5% C ₁₂ 5% C ₁₈) dimethyl benzyl ammonium chloride	5.00	N/E	N/E	N	N	N	68391-01-5
n-Alkyl (68% C ₁₂ , 32% C ₁₄) dimethyl ethylbenzyl ammonium chloride	5.00	N/E	N/E	N	N	N	68956-79-6
Ethanol	< 2.0	1000 ppm	1000 ppm	N	N	N	64-17-5

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

III - Physical Data

BOILING POINT (°F): N/D

SPECIFIC GRAVITY (WATER = 1): 0.992

VAPOR PRESSURE (mm Hg): N/D

VOC CONTENT (% by weight): 1.1%

VAPOR DENSITY (AIR = 1): N/D

EVAPORATION RATE (WATER = 1): ~ 1.0

SOLUBILITY IN WATER: Soluble

pH: N/D

APPEARANCE AND ODOR: Clear, colorless liquid, slight detergent odor.

IV - Fire and Explosion Hazard Data

FLASH POINT (°F): > 200

(TEST METHOD): Closed cup

FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: N/A LOWER: N/A

EXTINGUISHING MEDIA: Water fog, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: None.

V - Reactivity Data**STABILITY:** Stable**INCOMPATIBILITY:** None.**CONDITIONS TO AVOID:** Strong oxidizing agents.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon ammonia and nitrogen.**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None**VI - Health Hazard Data****ROUTES OF ENTRY** **INHALATION:** X **EYE CONTACT:** X **SKIN CONTACT:** X **INGESTION:** X
INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS: None.**EFFECTS OF OVEREXPOSURE****IF IN EYES:** Moderate to severe irritation, redness, tearing, possible corneal injury.**IF ON SKIN:** Irritation and dermatitis with prolonged or repeated contact.**IF SWALLOWED:** Gastrointestinal irritation, nausea, vomiting, diarrhea.**IF INHALED:** Irritation to respiratory tract, dizziness, headache.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. Obtain medical attention.**IF ON SKIN:** Remove contaminated clothing and launder before re-use. Wash with soap and water.**IF SWALLOWED:** Contact physician or poison control center immediately.**IF INHALED:** Remove person to fresh air. Administer artificial respiration, if breathing has stopped.**VII - Spill or Leak Protection****STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Ventilate area and contain spill. Soak up on inert absorbent material and place in closed container for disposal. Flush residue with water.**WASTE DISPOSAL METHOD:** Consult local environmental authorities.**VIII - Special Protection Information****RESPIRATORY PROTECTION:** Use with adequate ventilation. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.**VENTILATION****LOCAL:** Recommended**MECHANICAL:** Not required**PROTECTIVE GLOVES:** Chemical resistant.**EYE PROTECTION:** Safety glasses or goggles.**OTHER PROTECTIVE EQUIPMENT:** Eye wash station.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place. Avoid freezing. Keep container tightly closed when not in use. Wash thoroughly after using.**OTHER PRECAUTIONS:** Keep out of reach of children.**IX - Transportation Information (ground transportation only)****DOT ID #:** None**DOT PROPER SHIPPING NAME:** None**DOT CLASS:** None**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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