



SAFTY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: ALGAECIDE 40
Synonym(s): Maintenance Algaecide, Algaecide 50, Quat
Recommended Uses: Swimming Pool Algaecide
SDS Reference: 6
Company Information: ALLCHEM PERFORMANCE PRODUCTS, INC. Distributed By: LEE JOSEPH COMPANY
6010 NW FIRST PLACE 429 BURNS STREET
GAINESVILLE, FL 32607 RENO NV 89502
Tel: 352-378-9696
24 HOUR EMERGENCY NUMBER: INFOTRAC (TRANSPORTATION): 1-800-535-5053

2. HAZARD(S) IDENTIFICATION

Classification: CORROSIVE
ORAL HAZARD
FLAMMABLE
ENVIRONMENTAL HAZARD



Signal Word: DANGER

Hazard Statements: HEALTH HAZARDS:
Skin Corrosion - Causes severe skin burns and eye damage - Category 1B - H314
Eye Damage - Causes serious eye damage - Category 1 - H318
Oral Hazard - Harmful if swallowed - Category 4 - H302
PHYSICAL HAZARD:
Flammable - Flammable liquid and vapor - Category 3 - H226
ENVIRONMENTAL HAZARDS
Very toxic to aquatic life - Category 1 - H400

Precautionary Statements: Keep away from heat/sparks/open flames/hot surfaces. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection. Store in a well ventilated place. Keep cool and store locked up. Dispose of contents/container in an approved waste disposal plant.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

Skin Contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

Ingestion: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

3. COMPOSITION

	<u>PERCENT %</u>	<u>CAS #</u>
Chemical Name: Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	49.8	68391-01-5
Propan-2-ol	10	67-63-0
Water	40	7732-18-5

4. FIRST AID

If In Eyes: Immediately flush eye(s) with plenty of water. Call a physician immediately.

If on Skin or Clothing: After contact with skin, wash immediately with plenty of soap and water. Call a physician immediately. Take off all contaminated clothing immediately.

If Inhaled: Move to fresh air. Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

If Swallowed: Call a physician immediately. Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Note: Probable mucosal damage may contraindicate the use of gastric lavage.



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Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

5. FIREFIGHTING MEASURES

Suitable / Unsuitable: Dry powder, water spray or foam.
Extinguishing Media:
Specific Hazards from Heating or fire can release toxic gas.
Chemical:
Special Protective Firefighters should wear self-contained breathing apparatus.
Equipment:
Other Information: Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use respirator when performing operations involving potential exposure to vapor of the product.
Methods and Materials for cleanup: Contain spillage, and then collect with non-combustible absorbent material (eg. Sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see Section 13). Do not flush into surface water or sanitary sewer system.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Use good personal hygiene practices. Provide sufficient air exchange and/or exhaust in work rooms. Keep containers tightly closed. To maintain product quality, do not store in heat or direct sunlight.
Storage: Keep the container tightly closed and in a cool, well-ventilated place. Keep from freezing. Store at temperatures <60.0°C. Keep away from food, drink and animal feed stuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTIONS

OSHA permissible exposure limit: Propan-2-ol: CAS Nr: 67-63-0
ACGIH:
200 ppm (TWA), 400 ppm (STEL)

NIOSH/GUIDE:
REL: 400 ppm / 980 mg/m³
STEL 500 ppm / 1,225 mg/m³

OSHA_TRANS:
PEL: 400 ppm / 980 mg/m³

Z1A:
TWA : 400 ppm / 980 mg/m³
STEL: 500 ppm / 1,225 mg/m³

CAD ON OEL:
TWA : 200 ppm
STEL: 400 ppm

Appropriate Engineering Controls: Use general ventilation. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.
Individual Protection Measures:
Eye Protection: Tightly fitting safety goggles or face shield.
Hand Protection: Suitable material - nitrile rubber. Break through time: > 480 min.
Skin and Body Protection: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Rubber or plastic apron and rubber or plastic boots.
Respiratory Protection: In the case of vapor formation use a respirator with an approved filter.
Hygiene Measures: Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light yellow liquid

Flammability (solid/gas): No data available



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Odor:	Characteristic	Upper/lower Flammability or Exposure limits:	No data available
Odor Threshold:	No data available	Vapor Pressure:	No data available
pH:	6.5 - 8.3	Vapor Density:	No data available
Melting Point/Freezing Point:	No data available	Density:	8.045 lbs/gal
Initial Boiling Point/Boiling Range:	No data available	Solubility(ies):	Soluble
Flash Point:	100°F (38°C) - does not sustain combustion according to ASTM 4206	Partition Coefficient: n-octanol/water:	No data available
Evaporation Rate:	No data available	Auto-ignition Temperature:	No data available
		Decomposition Temperature:	No data available
		Viscosity:	<100 mPas.s (25°C)

10. STABILITY AND REACTIVITY

Stability/Reactivity:	Stable under normal conditions.
Possibilities of Hazardous Reactions:	No data available
Conditions to Avoid:	No data available
Incompatible Materials:	Reducing agents and strong oxidizers.
Hazardous Decomposition Materials:	Nitrogen oxides (Nox); Hydrogen chloride gas; carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Likely routes of exposure: Inhalation Ingestion Eyes Skin Acute Toxicity: Acute Dermal Toxicity (LD50): 7100 mg/kg Male Rabbit Acute Dermal Toxicity (LD50): 6300 mg/kg Female Rabbit Toxicity data based upon similar product (Quaternary ammonium compound - benzyl-C12-16-alkyldimethyl, chlorides - CAS Nr: 68424-85-1) and not actual product: Acute oral toxicity (LD50): ca. 344 mg/kg Species: Rat Acute dermal toxicity (LD50): ca. 3,340 mg/kg Species: Rabbit Exposure time: 24 h Skin corrosion/irritation: Skin irritation: Corrosive Species: Rabbit Exposure time: 24 h Method: DOT Serious eye damage/eye irritation: Eye irritation: Corrosive Species: Rabbit Method: DOT Respiratory or skin sensitization: Sensitization: Test Type: Buehler Test Species: Guinea pig Assessment: Did not cause sensitization on laboratory animals. Method: OECD Test Guideline 406 Result: not sensitizing
Chronic Toxicity:	No data available.
Reproductive Toxicity:	No data available.
Carcinogenicity:	No data available.
Mutagenicity:	Negative - Ames test, Salmonella typhimurium. Metabolic activation: yes

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	Information given is based upon similar substance and not on the product itself. Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (CAS-No.: 68424-85-1) Fish Toxicity: LC50: Pimephales promelas (fathead minnow): 0.28 mg/l (96 hour) Early-life Stage: Pimephales promelas (fathead minnow): 0.032 mg/l (34 day) EC50: Daphnia and other aquatic invertebrates: 0.016 mg/l (48 hour) Reproduction Test NOEC: Daphnia magna (water flea): 0.0042 mg/l (21 day) Algae Toxicity:
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ErC50: Pseudokirchneriella subcapitata (green algae): 0.049 mg/l (72 hour)
Growth Inhibition EC50: Lemna gibba: 0.12 mg/l (7 day)
Growth Inhibition ErC50: Algae: 0.089 mg/l (96 hour)

Bacteria Toxicity:
Respiration Inhibition: EC50: Activated sludge: 7.75 mg/l (3 hour)

Toxicity to soil dwelling organisms:
LC50: Earthworms: 7070 mg/kg (14d)
EC50: >1000 mg/kg (28d)

Plant Toxicity:
EC50: Growth inhibition: 277 - 1900 mg/kg (14d)

Biodegradability:
OECD Confirmatory Test: >90%
Modified SCAS Test: >99% (7d)
CO2 Evolution Test: Concentration 5 mg/l: Readily biodegradable: 95.5% (28d)

Avian Toxicity: No data available.

Environmental Hazards: This product is toxic to fish and other aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Disposal: Dispose of in accordance with local regulations. The organic ingredients can be incinerated in a suitable installation when in accordance with local regulations.
CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Dispose of as unused product.

14. TRANSPORTATION INFORMATION

Transportation: Please refer to applicable regulations or call company noted under Section I.

15. REGULATORY INFORMATION

TSCA: USA: Reported in the EPA TSCA Inventory.

SARA (311, 312): Health: Acute Health Hazard

SARA 313: This product contains Propan-2-ol (CAS# 67-63-0) which is subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986.

Right To Know
Hazardous Substance
List: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
Propan-2-ol: MA, PA, NJ.

Waste Classification: No data available.

Workplace
Classification: This product is considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

CERCLA Reportable
Quantity: No data available.

EPA NOTES:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. Following is the hazard information as required on the pesticide label:

SIGNAL WORD: DANGER

PRECAUTIONARY STATEMENTS. HAZARDS TO HUMANS AND DOMESTIC ANIMALS: DANGER. Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled, swallowed, or absorbed through the skin. Do not get into eyes, on skin or on clothing. Do not breathe vapor or spray mist. Wear protective eyewear (goggles, safety glasses or face shield), protective clothing, and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash clothing before reuse.

PHYSICAL OR CHEMICAL HAZARDS: Do not mix with soap, anionic detergents or oxidizers.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish.



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16. OTHER INFORMATION

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL. Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section 15 of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements. The information in this SDS was obtained from sources, which we believe are reliable. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS. The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

HMIS Rating: No data available

NFPA Rating: No data available

Revision Date: 5/26/2015

Special Hazard Warning: Not applicable