



MATERIAL SAFETY DATA SHEET

I - PRODUCT IDENTIFICATION

Product: Algaecide 50

Chemical Family: Quaternary Ammonium Compound

Formula: $[R_1-N(CH_3)_2CH_2C_6H_5]^+Cl^- [R_2-N(CH_3)_2CH_2C_6H_4C_2H_5]^+Cl^-$

Chemical Name: 49.8% Alkyl (60% C_{14} , 30% C_{16} , 5% C_{12} , 5% C_{18}) dimethyl
benzylammonium chloride

0.2% Dialkyl (60% C_{14} , 30% C_{16} , 5% C_{12} , 5% C_{18}) methyl
benzylammonium chloride

CAS Number: 68391-01-5
73049-75-9

Synonyms:

COMPANY IDENTIFICATION

AllChem Performance Products
6010 NW First Place
Gainesville, FL 32607
Tel:352-378-9696

24 HR EMERGENCY TELEPHONE NUMBER

INFOTRAC (Transportation): (800)535-5053

II – COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical or Common Name</u>	<u>Weight</u>	<u>TWA/TLV</u>
Alkyl dimethyl benzyl ammonium chloride	49.8%	ND
Dialkyl methyl benzyl ammonium chloride	0.2%	ND
Isopropanol C.A.S. No. 67-63-0	5-10%	400 ppm

III – HAZARDS IDENTIFICATION

Primary Route(s) of Entry:

Ingestion: ()
Inhalation: (X)
Skin Contact: (X)
Eye Contact: (X)

Primary Health Hazards (Acute and Chronic):

Carcinogenity Listings:

OSHA: NO
NTP: NO
IARC: NO

Signs & Symptoms of Exposure:

Ingestion: May be fatal. Burning pain in the mouth, throat, abdomen, severe swelling of

the larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory shock, convulsions.

Inhalation: Irritation of mucous membrane can be caused by solvent vapors or mists of product.

Skin Contact: Severe Irritation. Corrosive.

Eye Contact: Corrosive. Severe eye damage can result from direct contact

Medical Conditions Aggravated By Exposure:

IV – FIRST AID MEASURES

Emergency and First Aid Procedures:

Ingestion: If swallowed drink promptly, a large quantity of egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately. Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before reuse.

Eye Contact: Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

V – FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARD DATA

Flash Point: 120°F PMCC

Flammable Limits:

LEL:

UEL:

Extinguishing Media: Dry Chemical, Water Fog, CO₂, Foam.

Special Fire-fighting Procedures: Cool fire exposed containers with spray, Must wear MSHA/NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Explosive mixtures can form with air. Combustion products are toxic. Solvent vapors can travel to an ignition source and flash back.

VI – ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Spilled Or Released: Remove ignition sources.

Wear respirator. 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.

VII – HANDLING AND STORAGE

Precautions to Be Taken in Handling and Storage: Keep from freezing, store in original

container.

VIII – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respiratory Protection: None required if good ventilation is maintained. For mist or vapor wear NIOSH Approved respirator.

Ventilation: Local Exhaust:
Mechanical Exhaust: Explosion Proof

Protective Gloves: Rubber or Neoprene

Eye Protection: Splash proof safety goggles

Other Protective Clothing or Equipment: Impervious apron, eyewash facility, emergency shower, face shield.

Work/ Hygienic Practices:

IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point @ 760 mm Hg): ND

Vapor Pressure (mm Hg): 24mmHg

Vapor Density (Air=1):

Solubility in Water: Soluble

Appearance and odor: Colorless to light straw in color. Benzaldehyde Odor

Specific Gravity (H₂O=1): 0.95

Percent volatile by weight: 50%

Melting Point:

Evaporation Rate Butyl Acetate = 1: ND

pH: 6-8

X – STABILITY AND REACTIVITY

Stability: Unstable Stable

Conditions to Avoid: N/A

Incompatibility: Strong oxidizers or reducing agents

Conditions to Avoid: Mixing with strong oxidizers or reducing agents

Hazardous Decomposition or By-Products: Toxic hydrogen chloride fumes, oxides of carbon and nitrogen.

Hazardous Polymerization: May Occur Will Not Occur

XI- TOXICOLOGICAL INFORMATION

Acute Toxicity: Acute Oral - LD₅₀760mg/kg for males and females combined

Acute Dermal - greater than 1700 mg/kg

Primary Skin – Severe Irritant, Corrosive

Primary Eye - Corrosive

Target Organ Toxicity:

Reproductive and Development Toxicity:

Carcinogenicity:

Mutagenicity:

XI I- ECOLOGICAL INFORMATION

Aquatic Toxicity:

Avian Toxicity:

ENVIRONMENTAL HAZARDS (PR Notice 93-10)

This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of wastes. 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.

XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Incinerate. Make sure that all federal, state and local regulations are observed.

XIV - TRANSPORTATION DATA

U.S. Department of Transportation - 49 CFR

Proper Shipping Name: Disinfectants, Liquid, Corrosive NOS (Quaternary Ammonium Compound)

Hazard Class/Division Number: 8

ID Number: UN1903

Packing Group: II

Label Required:

Placard Required:

Marine Pollutant:

Emergency Telephone Number:

International Maritime Organization - IMDG

Proper Shipping Name

Hazard Class/Division Number:

ID Number:

Packing Group:

Label Required:

Placard Required:
Marine Pollutant:

Emergency Telephone Number:

XV - REGULATORY INFORMATION

This chemical appears on the following lists:

- () SARA Section 313
- () TSCA

XVI - ADDITIONAL INFORMATION

This MSDS replaces the 06/06/2002 version. Any changes in information are as follows:
In Section I - 24 hr emergency telephone number

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 XV 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 MSDS 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 MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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