

SAFETY DATA SHEET

Date Issued : 03/27/2020
 SDS No. : LHP 50% Algaecide
 Date Revised : 06/11/2021
 Revision No : 2

50% Algaecide

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 50% Algaecide
GENERAL USE: Algaecide

DISTRIBUTOR

Litehouse Pools & Spas
 10883 Pearl Road, Suite 201
 Strongsville, OH 44136
Product Stewardship: (440) 638-2350

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS**Health:**

Acute Toxicity (Oral), Category 4
 Skin Corrosion, Category 1B
 Serious Eye Damage, Category 1

Physical:

Flammable Liquids, Category 3

GHS LABEL

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).



Flame



Corrosion

Exclamation
mark**SIGNAL WORD: DANGER****HAZARD STATEMENTS**

H226: Flammable liquid and vapour.
 H302: Harmful if swallowed.
 H314: Causes severe skin burns and eye damage.
 H318: Causes serious eye damage.

PRECAUTIONARY STATEMENT(S)**Prevention:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233: Keep container tightly closed.
 P240: Ground and bond container and receiving equipment.
 P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.
 P242: Use non-sparking tools.
 P243: Take action to prevent static discharges.
 P264: Wash ... thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301+P312: IF SWALLOWED: Call a POISON CENTER/ doctor/...if you feel unwell.
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P361: Take off immediately all contaminated clothing.
 P353: Rinse skin with water [or shower].

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P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P304+P312: IF INHALED: Call a POISON CENTER/doctor/...if you feel unwell.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTER/doctor/...
 P363: Wash contaminated clothing before reuse.
 1585RM8G: P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403+P235: Store in a well-ventilated place. Keep cool.
 P405: Store locked up.

Disposal:

3235U44K: P501: Dispose of contents/container to an approved waste disposal plant.

POTENTIAL HEALTH EFFECTS

INGESTION: May be harmful if swallowed.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt. %	CAS
Quaternary Ammonium Compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	< 50 - 60	68424-85-1
Ethanol	< 5 - 10	64-17-5
Other components below reportable levels	< 40 - 50	-----

4. FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Wash immediately with plenty of soap and water. Call a physician immediately. Take off all contaminated clothing immediately.

INGESTION: Call a physician immediately. Clean mouth with water. Drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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

5. FIRE FIGHTING MEASURES

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

OTHER CONSIDERATIONS: Do not use water jet as an extinguisher, as this will spread the fire.

FIRE FIGHTING PROCEDURES: In case of fire and/or explosion, do not breathe fumes. Move containers from fire area if can do so without risk. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

FIRE FIGHTING EQUIPMENT: In the event of fire, wear self-contained breathing apparatus.

HAZARDOUS DECOMPOSITION PRODUCTS: Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

LARGE SPILL: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: 5% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

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GENERAL PROCEDURES: Contain spillage and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

RELEASE NOTES: Do not flush into surface water or sanitary sewer system.

SPECIAL PROTECTIVE EQUIPMENT: Use respirator when performing operations involving potential exposure to vapor of the product.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin, and clothing. Provide sufficient air exchange and/or exhaust in work rooms.

HANDLING: Highly flammable. Keep away from sources of ignition. No smoking. Take precautions against static discharges.

STORAGE: Keep container tightly closed and store in a cool, dry, ventilated area away from heat and light.

STORAGE TEMPERATURE: Recommended storage temperature: Less than 60 degrees C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
Chemical Name	EXPOSURE LIMITS			
	Type		ppm	mg/m ³
Ethanol	OSHA PEL	TWA	1000 ppm	1900 mg/m ³
		STEL	ppm	mg/m ³
	ACGIH TLV	TWA	1000 ppm	1884 mg/m ³
		STEL	ppm	mg/m ³
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL

ENGINEERING CONTROLS: In processes where mists or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear tightly sealed safety goggles.

SKIN: Nitrile rubber gloves with break through time greater than 480 min

RESPIRATORY: In misty conditions, use a respirator with approved filter.

PROTECTIVE CLOTHING: Rubber or plastic apron and boots.

WORK HYGIENIC PRACTICES: Provide safety shower and eyewash station in the work area.

OTHER USE PRECAUTIONS: Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Characteristic

APPEARANCE: Blue liquid.

pH: 7 to 9 (10% aqueous)

FLASHPOINT AND METHOD: 47.0°C (116.6°F)

VAPOR PRESSURE: 44 mm Hg at (68°F)

VAPOR DENSITY: Not Available

SOLUBILITY IN WATER: Miscible

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EVAPORATION RATE: Not Available

SPECIFIC GRAVITY: 0.96

VISCOSITY #1: < 68.99 CST

(VOC): 5 %

Notes: Estimated

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point (116.6°F) (47.0°C). Contact with incompatible materials.

POSSIBILITY OF HAZARDOUS REACTIONS: No dangerous reaction known under conditions of normal use.

HAZARDOUS DECOMPOSITION PRODUCTS: No dangerous decomposition products known.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

DERMAL LD₅₀: 3560 mg/kg - Rabbit

ORAL LD₅₀: 430 mg/kg - Rat

NOTES: Above tox data based on N-Alkyl (C12-16)-N,N-dimethyl-N-benzylammonium chloride (CAS No.: 68424-85-1)

RESPIRATORY OR SKIN SENSITISATION: Not a respiratory sensitizer. Causes skin burns.

GERM CELL MUTAGENICITY: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

CARCINOGENICITY

NOTES: None of the components in this product are listed by IARC, NTP, OSHA or ACGIH as carcinogen.

REPRODUCTIVE TOXICITY: Not expected to cause reproductive or developmental effects.

STOT-SINGLE EXPOSURE: Not classified

STOT-REPEATED EXPOSURE: Not classified

ASPIRATION HAZARD: Not expected to occur.

12. ECOLOGICAL INFORMATION

AQUATIC TOXICITY (ACUTE)

96-HOUR LC₅₀: 0.28 mg/L (fathead minnow) EPA method.

48-HOUR EC₅₀: 0.01 mg/L (Daphnia Magna) OECD Test Guideline 202.

Notes: Early-Life Stage NOEC: 0.03 mg/l (fathead minnow); exposure time 34 days; EPA-FIFRA method.

CHEMICAL FATE INFORMATION:

Biodegradability:

OECD Confirmatory Test: >90%; Method OECD 303A

Modified SCAS Test: >99%; exposure time 7 days; Method: OECD 302A

CO2 Evolution Test: concentration: 5 mg/l; Exposure time 28 days. Readily biodegradable. 95.5%; Method OECD 301B

GENERAL COMMENTS: Above ecotox data refers to: N-Alkyl(C12-16)-N,N-dimethyl-N-benzylammonium chloride (CAS No.: 68424-85-1)

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13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: Corrosive liquids, flammable, n.o.s. (Quaternary Ammonium Compound, Ethanol)

PRIMARY HAZARD CLASS/DIVISION: 8

SECONDARY HAZARD CLASS/DIVISION: 3

UN/NA NUMBER: UN2920

PACKING GROUP: II

NAERG: 132

LABEL: 8,3

OTHER SHIPPING INFORMATION: Note: Class 3 labels are not required when packages are transported domestically by rail or highway as noted in 49CFR 172.402(a)

AIR (ICAO/IATA)

SHIPPING NAME: Corrosive liquids, flammable, n.o.s. (Quaternary Ammonium Compound, Ethanol)

UN/NA NUMBER: UN2920

PRIMARY HAZARD CLASS/DIVISION: 8

SECONDARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: II

ERG: 8F

SUBSIDIARY RISK: 3

VESSEL (IMO/IMDG)

SHIPPING NAME: Corrosive liquids, flammable, n.o.s. (Quaternary Ammonium Compound, Ethanol)

UN/NA NUMBER: 2920

PRIMARY HAZARD CLASS/DIVISION: 8

SECONDARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: II

EmS: F-E, S-C

MARINE POLLUTANT #1: No.

SPECIAL PROVISIONS: Passenger and cargo aircraft: Allowed.
 Cargo aircraft only: Allowed.

15. REGULATORY INFORMATION

UNITED STATES

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Corrosive

Flammable
Liquid

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

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311/312 HEALTH HAZARDS: Hazard Categories: Health: Immediate (Acute) Health Hazard

313 REPORTABLE INGREDIENTS: None.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: Not listed.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product can only be used in the EPA registered application noted on the product label.

TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.

STATES WITH SPECIAL REQUIREMENTS

Chemical Name	Requirements
Ethanol	Ethyl Alcohol: New Jersey Workplace Hazard New Jersey Special Hazard Pennsylvania Workplace Hazard CA Proposition 65 Massachusetts Hazardous Substance New York City Hazardous Substance

REGULATIONS**STATE REGULATIONS:**

Massachusetts Right To Know: Ethanol (CAS 64-17-5)

New Jersey Right to Know: Ethanol (CAS 64-17-5)

Pennsylvania Right to Know: Ethanol (CAS 64-17-5)

CALIFORNIA PROPOSITION 65: The following detectable component of this product is a substance, or belongs to classes of substances, known by the State of California to cause cancer and/or reproductive toxicity. However, exposure to this chemical qualifies under Safe Harbor Levels, and poses no significant risk within the meaning of the Act.

Residual Ethanol CAS 64-17-5, Less than 1 PPM.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT): This chemical is a pesticide product registered by the 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. Below you will find the hazard information that is required on the EPA pesticide label.

16. OTHER INFORMATION

Date Revised: 06/11/2021

REVISION SUMMARY: This SDS replaces the 01/07/2021 SDS. Revised: **Section 3:** Wt.%. **Section 5:** EXTINGUISHING MEDIA, FIRE FIGHTING PROCEDURES, HAZARDOUS COMBUSTION PRODUCTS, HAZARDOUS DECOMPOSITION PRODUCTS, OTHER CONSIDERATIONS. **Section 6:** LARGE SPILL, SMALL SPILL, WATER SPILL. **Section 9:** BOILING POINT, EVAPORATION RATE, FLASHPOINT AND METHOD, FREEZING POINT, MELTING POINT, OXIDIZING PROPERTIES, pH, SOLUBILITY IN WATER, SPECIFIC GRAVITY, VISCOSITY #1, (VOC). **Section 10:** CONDITIONS TO AVOID, HAZARDOUS DECOMPOSITION PRODUCTS, HAZARDOUS POLYMERIZATION, INCOMPATIBLE MATERIALS, POSSIBILITY OF HAZARDOUS REACTIONS. **Section 14:** AIR (ICAO/IATA) - SHIPPING NAME DOT (DEPARTMENT OF TRANSPORTATION) (NAERG), VESSEL (IMO/IMDG) (SPECIAL PROVISIONS). **Section 15:** GENERAL COMMENTS, CALIFORNIA PROPOSITION 65.

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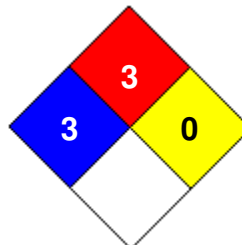
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HMIS RATING

HEALTH		3
FLAMMABILITY		3
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

NFPA CODES



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