

POOLWERX USA, INC
SAFETY DATA SHEET

Section 1: Identification

Product Name: Vitalyse Algae Remover
Poolwerx USA, Inc
4801 Spring Valley Road, Suite 103
Farmers Branch TX 75244

Product Code: C007806

Emergency Phone:

CHEMTREC: Canada and USA - (800) 424-9300
CHEMTREC: In Mexico - 01-800-681-9531

Product Use: Algaecide
Not recommended for: Other Uses

Section 2: Hazard(s) Identification

GHS Ratings:

Flammable liquid	3	Flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$ (140°F)
Acute Toxicity - Oral	4	Oral $>300 \leq 2000$ mg/kg
Skin corrosion/irritation	1B	Destruction of dermal tissue: Exposure < 1 hour Observation < 14 days, visible necrosis in at least one animal
Serious eye damage/eye irritation	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity ≥ 3 , Iritis > 1.5
Acute aquatic toxicity	A2	Acute toxicity > 1.00 but ≤ 10.0 mg/l

GHS Hazards

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H401	Toxic to aquatic life

GHS Precautions

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/light/equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P264	Wash face, hands, and any exposed skin thoroughly after handling
P270	Do not eat, drink or smoke when using this product
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see first aid treatment on SDS)
P330	Rinse mouth

P363	Wash contaminated clothing before reuse
P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301+P330+P331	If swallowed: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	If on skin (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370+P378	In case of fire: Use suitable media for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

Danger



Section 3: Composition/Information on Ingredients

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1 40% - 50%			
Water 7732-18-5			
Trade Secret 5% - 10% Vapor Pressure: 42.979 mmHg	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA

Section 4: First-aid Measures

Inhalation

Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.

Eye Contact

Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly.

Skin Contact

Remove contaminated clothing. Wash skin with soap and water. Get medical attention. Wash clothing separately and clean shoes before reuse.

Ingestion

If swallowed, do NOT induce vomiting. Give victim a glass of water. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5: Fire-fighting Measures
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Extinguishing Media

Water Spray, foam, multi purpose powders, carbon dioxide. Use suitable media on burning material.

Do Not Use High Volume Water Jets

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. vapors may travel considerable distance to a source of ignition and flash back. container may rupture on heating. Harmful or toxic vapors may be released

Special Protective Equipment and Precautions for Firefighters

Special Information: As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA / NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Spill and Leak Procedures

Keep Unnecessary personnel away. keep people away from and upwind of spill/leak. Eliminate all ignition sources. Wear appropriate protective equipment and clothing during clean up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. ventilate closed spaces before entering them.

Recovery: Stop leak if safe to do. Absorb spills with vermiculite, fuller's earth or sand. shovel up and place in non metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread. Keep in suitable, properly labeled, closed container for disposal.

Section 7: Handling and Storage
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Handling Procedures

Use with adequate ventilation. Avoid breathing dusts, mists, and vapors. Do not get in eyes, on skin, or on clothing. Wear eye protection and protective clothing. Wash thoroughly after handling.

Storage Requirements

Store containers in a cool, dry, well ventilated place. Keep container closed when not in use.

Section 8: Exposure Control/Personal Protection
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Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides 68424-85-1			
Water 7732-18-5			
Trade Secret N/A	1000 ppm TWA; 1900 mg/m ³ TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m ³ TWA

ENGINEERING CONTROLS: Provide ventilation sufficient to maintain exposure below the recommended limits.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant the use of a respirator.

SKIN PROTECTION: Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

HYGENIC PRACTICES: Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

Section 9: Physical and Chemical Properties

<p>Appearance: Clear to Beige Liquid</p> <p>Vapor Pressure: 44 mm Hg Estimated</p> <p>Vapor Density: Not Available</p> <p>Density: Not Available</p> <p>Freezing point: Not Available</p> <p>Boiling range: Not Available</p> <p>Evaporation rate: Not Available</p> <p>Explosive Limits: Not Available</p> <p>Autoignition temperature: Not Available</p> <p>Viscosity: 68.99 cSt</p>	<p>Odor: Almond</p> <p>Odor threshold: Not Available</p> <p>pH: 7 - 9</p> <p>Melting point: Not Available</p> <p>Solubility: Miscible</p> <p>Flash point: 116.6°F (47.0°C)</p> <p>Flammability: Not Available</p> <p>Specific Gravity: 0.96</p> <p>Decomposition temperature: Not Available</p> <p>Grams VOC less water: Not Available</p>
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Section 10: Stability and Reactivity

Chemical Stability:

STABLE

Incompatible Materials

Conditions to Avoid

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point.

Hazardous Decomposition Products

Carbon Monoxide, Aldehydes, flammable hydrocarbon fragments

Hazardous Polymerization

Hazardous polymerization will not occur.

Section 11: Toxicology Information

Mixture Toxicity

Oral Toxicity LD50: 839mg/kg

Inhalation Toxicity LC50: 1,334mg/L

Component Toxicity

Routes of Entry:

Inhalation
Ingestion
Skin contact
Eye contact

Target Organs

Blood Eyes Liver Central Nervous System Reproductive System Skin
Respiratory System

Effects of Overexposure

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
64-17-5	Trade Secret	5% - 10%	Trade Secret: IARC: Human carcinogen OSHA: listed

Section 12: Ecological Information

Component Ecotoxicity

Trade Secret
96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L ; 96 Hr LC50 Pimephales promelas: >100 mg/L ; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L
48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]

Section 13: Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

Section 14: Transportation Information

The following is for US DOT Highway Transportation . Other modes/jurisdictions may have different classifications .

UN Code: UN2920 **DOT Name:** Corrosive Liquid, flammable N.O.S.(Quaternary Ammonium Compound, ethanol)

Hazard Class: 8, (3) **Packing Group:** II

Section 15: Regulatory Information

EPA Reg. No. 57787-7-104234

FIFRA information:

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. Following is the hazard information as required on the pesticide label:

DANGER Corrosive.

Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Harmful if swallowed.

This product is toxic to fish and aquatic organisms

CERCLA/SARA Hazardous Substances

Proposition 65 Information:



WARNING: This product can expose you to chemical(s), which [is / are] known to the State of California to cause [cancer, birth defects, or other reproductive harm]. For more information go to www.P65Warnings.ca.gov

Trade Secret Carcinogen, Mutagen

OSHA Process Safety Management Highly Hazardous Chemicals

U.S. Clean Air Act Toxic and Flammable Substances

SARA 313

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know-Act of 1986 (40 CFR 372):

This information must be included in all SDSs that are copied and distributed for this material.

TSCA 8(b) Inventory

Trade Secret

7732-18-5 Water

68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Country

Regulation

All Components Listed

Section 16: Other Information

Date Prepared: 10/9/2023

Disclaimer

The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.