

**POOLWERX USA, INC**  
**SAFETY DATA SHEET**

**Section 1: Identification**

Product Name: Vitalyse Algaecide 60    Product Code: C007807

Poolwerx USA, Inc  
4801 Spring Valley Road, Suite 103  
Farmers Branch TX 75244

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

Product Use: Pool Algaecide  
Not recommended for: Uses Not Listed on the Label

**Section 2: Hazard(s) Identification**

**GHS Ratings:**

Acute Toxicity - Inhalation	4	Gases>2500+<=20000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l
Skin corrosion/irritation	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Serious eye damage/eye irritation	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Skin sensitization	1	Skin sensitizer
Carcinogenicity	1B	Presumed Human Carcinogen, Based on demonstrated animal carcinogenicity
Specific target organ toxicity single exposure	1	Significant toxicity in humans- Reliable, good quality human case studies or epidemiological studies, Presumed significant toxicity in humans- Animal studies with significant and/or severe toxic effects relevant to humans at generally
Acute aquatic toxicity	A1	Acute toxicity <= 1.00 mg/l

**GHS Hazards**

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H350	May cause cancer
H370	Causes damage to organs
H400	Very toxic to aquatic life

**GHS Precautions**

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P261	Avoid breathing 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

P271	Use only outdoors or in a well-ventilated area
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P321	Specific treatment (see first aid treatment on SDS)
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P391	Collect spillage
P302+P352	If on skin: Wash with plenty of soap and water.
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.
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician
P308+P313	If exposed or concerned get medical advice / attention.
P332+P313	If skin irritation occurs: Get medical advice / attention
P333+P313	If skin irritation or rash occurs: Get medical advice / attention.
P337+P313	If eye irritation persists get medical advice / attention
P405	Store locked up
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

**Danger**



**Section 3: Composition/Information on Ingredients**

**Note:** Components and Concentrations have been withheld as trade secret. Components hidden are residual impurities from the initial chemical reaction. SDS is based on component concentrations after final reaction.

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Polixetonium chloride 31512-74-0 50% - 60%			
Trade Secret 1% - 5%			
Trade Secret 0.1% - 1.0% Vapor Pressure: 64.505 mmHg	50 ppm TWA	10 ppm TWA	NIOSH: 1 ppm TWA; 4 mg/m3 TWA 2 ppm STEL; 8 mg/m3 STEL

**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**

**Extinguishing Media**

Use media suitable for the surrounding fire.

**Specific Hazards Arising from the Chemical**

In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Carbon dioxide, carbon monoxide, nitrogen oxides, halogenated compounds

**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**

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

**Section 7: Handling and Storage**

**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**

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Polixetonium chloride 31512-74-0			
Trade Secret N/A			
Trade Secret N/A	50 ppm TWA	10 ppm TWA	NIOSH: 1 ppm TWA; 4 mg/m3 TWA 2 ppm STEL; 8 mg/m3 STEL

**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><b>Appearance:</b> Clear yellow to brown liquid</p> <p><b>Vapor Pressure:</b> Not Available</p> <p><b>Vapor Density:</b> Not Available</p> <p><b>Density:</b> Not Available</p> <p><b>Freezing point:</b> Not Available</p> <p><b>Boiling range:</b> &gt;100°C (212°F)</p> <p><b>Evaporation rate:</b> Not Available</p> <p><b>Explosive Limits:</b> Not Available</p> <p><b>Autoignition temperature:</b> Not Available</p> <p><b>Viscosity:</b> Not Available</p>	<p><b>Odor:</b> Mild</p> <p><b>Odor threshold:</b> Not Available</p> <p><b>pH:</b> 6 - 8</p> <p><b>Melting point:</b> &lt; 0°C (32°F)</p> <p><b>Solubility:</b> Easily soluble in water</p> <p><b>Flash point:</b> Not Available</p> <p><b>Flammability:</b> Not Available</p> <p><b>Specific Gravity:</b> 1.145</p> <p><b>Decomposition temperature:</b> Not Available</p> <p><b>Grams VOC less water:</b> Not Available</p>
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**Section 10: Stability and Reactivity**

**Chemical Stability:**

STABLE

**Incompatible Materials**

None known

**Conditions to Avoid**

None known

**Hazardous Decomposition Products**

Under normal conditions, there should be no hazardous decomposition products produced.

**Hazardous Polymerization**

Hazardous polymerization will not occur.

**Section 11: Toxicology Information**

**Mixture Toxicity**

Oral Toxicity LD50: 2,508mg/kg

Dermal Toxicity LD50: 3,325mg/kg

Inhalation Toxicity LC50: 5mg/L

**Component Toxicity**

**Routes of Entry:**

Inhalation

Ingestion

Skin contact

Eye contact

**Target Organs**

Eyes

Kidneys

Liver

Central Nervous System

Skin

Cardiovascular System

**Effects of Overexposure**

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
Trade Secret	Trade Secret	< 0.1	1,2-Dichloroethane: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed EU REACH: Present
Trade Secret	Trade Secret	< 0.1	Bis(2-chloroethyl) ether: NIOSH: potential occupational carcinogen

**Section 12: Ecological Information**

**Component Ecotoxicity**

Trade Secret	96 Hr LC50 Lepomis macrochirus: 600 mg/L [static] 48 Hr LC50 Daphnia magna: 170 - 330 mg/L [Static]
Trade Secret	96 Hr LC50 Pimephales promelas: 110 - 123 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 225 mg/L [static] (1.8 g); 96 Hr LC50 Lepomis macrochirus: 230 - 710 mg/L [flow-through] (0.12 g) 48 Hr EC50 Daphnia magna: 140 - 190 mg/L [Static] 96 Hr EC50 Pseudokirchneriella subcapitata: >433 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 166 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 and have not been disclosed in this section.

UN Code: Not Applicable  
DOT Name: Not Applicable  
Hazard Class: Not Applicable  
Packing Group: Not Applicable

**Section 15: Regulatory Information**

EPA Reg. No. 57787-23-104234

**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:

**CAUTION:** Harmful if swallowed. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wear long sleeve shirt and long pants, socks, shoes and chemical resistant gloves (such as any waterproof material, selection category A).

**CERCLA/SARA Hazardous Substances**

Trade Secret

**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](http://www.P65Warnings.ca.gov)

Trade Secret Carcinogen

Trade Secret

**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):

Trade Secret 0.1 - 1.0%

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

**TSCA 8(b) Inventory**

Trade Secret  
Trade Secret  
Trade Secret  
Trade Secret

**Country**

**Regulation**

**All Components Listed**

**Section 16: Other Information**

Revision Notes: Updated Components and trade secret properties - 5-10-24  
Updated Section 2 hazards - 7-3-24  
Format and add components in section 15

Date Prepared: 01/24/2025

**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.