

POOLWERX USA, INC
SAFETY DATA SHEET

Section 1: Identification

Product Name: Vitalyse Algaecide 120 Product Code: C007809

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: NA

Section 2: Hazard(s) Identification

GHS Ratings:

Corrosive to metals	1	Corrosive to metals
Acute Toxicity - Oral	4	Oral>300+<=2000mg/kg
Acute Toxicity - Inhalation	4	Gases>2500+<=20000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l
Skin corrosion/irritation	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, 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
Respiratory sensitization	1	Respiratory sensitizer
Skin sensitization	1	Skin sensitizer
Reproductive toxicity	2	Human or animal evidence possibly with other information
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 low exposure (guidan
Specific target organ toxicity repeated 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 low exposure (guidanc
Acute aquatic toxicity	A2	Acute toxicity > 1.00 but <= 10.0 mg/l

GHS Hazards

H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P234	Keep only in original container
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

H361	Suspected of damaging fertility or the unborn child	P270	Do not eat, drink or smoke when using this product
H370	Causes damage to organs	P271	Use only outdoors or in a well-ventilated area
H372	Causes damage to organs through prolonged or repeated exposure	P272	Contaminated work clothing should not be allowed out of the workplace
H401	Toxic to aquatic life	P273	Avoid release to the environment
		P280	Wear protective gloves/protective clothing/eye protection/face protection
		P281	Use personal protective equipment as required
		P285	In case of inadequate ventilation wear respiratory protection
		P310	Immediately call a POISON CENTER or doctor/physician
		P312	Call a POISON CENTER or doctor/physician if you feel unwell
		P314	Get Medical advice/attention if you feel unwell
		P321	Specific treatment (see first aid treatment on SDS)
		P330	Rinse mouth
		P363	Wash contaminated clothing before reuse
		P390	Absorb spillage to prevent material damage
		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.
		P302+P352	If on skin: Wash with plenty of soap and water.
		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.
		P304+P341	If inhaled: If breathing is difficult, 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	Continue rinsing.
		P308+P313	IF exposed: Call a POISON CENTER or doctor/physician
		P333+P313	If exposed or concerned get medical advice / attention.
		P342+P311	If skin irritation or rash occurs: Get medical advice / attention.
		P405	If experiencing respiratory symptoms: Call a POISON CENTER or doctor / physician. Store locked up

P406

Store in a corrosive resistant container
with a resistant inner liner

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
Copper triethanolamine 82027-59-6 10% - 20%			
Trade Secret * 10.70% Vapor Pressure: 0 mmHg		5 mg/m ³ TWA	
Trade Secret * 11% Vapor Pressure: .435 mmHg	3 ppm TWA; 6 mg/m ³ TWA	6 ppm STEL 3 ppm TWA	NIOSH: 3 ppm TWA; 8 mg/m ³ TWA 6 ppm STEL; 15 mg/m ³ STEL
Copper(II) 2- aminoethanolate 14215-52-2 10% - 20%			
Trade Secret * 2%			

*Chemical names have been withheld as trade secret. The components listed are the final product of the reactive chemistry of the mixture.
Total Copper content 7.4%

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 fires.

Specific Hazards Arising from the Chemical

Decomposition products may include the following materials:

Carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

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 spillage into 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.

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: Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

Section 8: Exposure Control/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Copper, [[2,2',2''-(nitriilo-.kappa.N)tris[ethanol-.kappa.O]](2-)]-82027-59-6			
Trade Secret N/A		5 mg/m3 TWA	
Trade Secret N/A	3 ppm TWA; 6 mg/m3 TWA	6 ppm STEL 3 ppm TWA	NIOSH: 3 ppm TWA; 8 mg/m3 TWA 6 ppm STEL; 15 mg/m3 STEL
Copper, bis[2-(amino-.kappa.N)ethanolato-.kappa.O]-14215-52-2			
Trade Secret N/A			

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: Dark Blue Liquid</p> <p>Vapor Pressure: Not Available</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: Not Available</p>	<p>Odor: None</p> <p>Odor threshold: Not Available</p> <p>pH: ~ 10</p> <p>Melting point: Not Available</p> <p>Solubility: Not Available</p> <p>Flash point: Not Available</p> <p>Flammability: Not Available</p> <p>Specific Gravity: ~ 1.194 @ 20° C</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

Reactive or incompatible with the following materials:

Oxidizing materials

Acids and alkalis

Strong acids and nitrites

Conditions to Avoid

None known.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous Polymerization

Section 11: Toxicology Information

Mixture Toxicity

Oral Toxicity LD50: 1,914mg/kg

Inhalation Toxicity LC50: 4mg/L

Component Toxicity

102-71-6

Trade Secret

Oral LD50: 4,190 mg/kg (Rat) Dermal LD50: 20 mL/kg (Rabbit)

Routes of Entry:

Inhalation

Ingestion

Skin contact

Eye contact

Target Organs

Effects of Overexposure

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			N/A

Section 12: Ecological Information

Component Ecotoxicity

Trade Secret	96 Hr LC50 Pimephales promelas: 10600 - 13000 mg/L ; 96 Hr LC50 Pimephales promelas: >1000 mg/L ; 96 Hr LC50 Lepomis macrochirus: 450 - 1000 mg/L 72 Hr EC50 Desmodesmus subspicatus: 216 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 169 mg/L
Trade Secret	96 Hr LC50 Pimephales promelas: 227 mg/L ; 96 Hr LC50 Brachydanio rerio: 3684 mg/L ; 96 Hr LC50 Lepomis macrochirus: 300 - 1000 mg/L ; 96 Hr LC50 Oncorhynchus mykiss: 114 - 196 mg/L ; 96 Hr LC50 Oncorhynchus mykiss: >200 mg/L 48 Hr EC50 Daphnia magna: 65 mg/L 72 Hr EC50 Desmodesmus subspicatus: 15 mg/L
Trade Secret	96 Hr LC50 Lepomis macrochirus: 1516 mg/L

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: UN1760
DOT Name: Corrosive Liquid, N.O.S. (Alkanolamines)
Hazard Class: 8
Package Group: III

Section 15: Regulatory Information

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):
 82027-59-6 - Copper triethanolamine

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
 7732-18-5 Water

EPA Reg. No. 57787-39-104234

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 inhaled.

Causes moderate eye irritation.

Harmful if swallowed or absorbed through the skin.

Avoid breathing vapor or spray mist.

Avoid contact with skin, eyes or clothing.

Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

This pesticide is toxic to fish and aquatic invertebrates and may contaminate water through runoff.

Section 16: Other Information

Date Prepared: 11/14/2023

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.