

SAFETY DATA SHEET

SECTION I – Product and Company Identification

Product Name: Pool Trol 60% Non Foaming Algaecide

Chemical Name: Poly [oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]

Synonyms: WSCP, Clearaid SCP

CAS No.: 31512-74-0

Manufacturer: Qualco, Inc.

225 Passaic Street

Passaic, NJ 07055

Telephone: 973-473-1222

Fax: 973-473-0535

Emergency: 1-800-424-9300 (ChemTrec)

Supplied by: Pool Trol Products

Qualco, Inc.

225 Passaic Street

Passaic, NJ 07055

Telephone: 973-473-1222

Fax: 973-473-0535

SECTION II – Hazards Identification

Emergency Overview:

Physical Appearance: Clear, light yellow to brown liquid

Immediate Concerns: CAUTION: Eye irritant



Potential Health Effects:

Eyes: Irritating to eyes.

Skin: Prolonged or repeated exposure may irritate

Ingestion: There is limited information available to determine whether this material causes harm from swallowing.

Inhalation: Mist may be irritating to eyes and respiratory tract.

Cancer Statement: This product (or any component at a concentration of 0.1% or greater) is not listed by the NTP, IARC, OSHA or EPA as a carcinogen.

SECTION III – Composition/Ingredient Information

Components of this mixture may be proprietary information. In the event of a medical emergency, compositional information will be provided to physician or nurse. This product is hazardous as defined in 29 CFR 1910.1200, based on the following compositional information.

Chemical Name:

Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]

CAS No.: 31512-74-0

Weight %: 30

SECTION IV – First Aid Measures

Eye Exposure: Flush immediately with copious amounts of tap water or normal saline (minimum of 15 minutes). Take exposed individual to a health care professional preferably an ophthalmologist for further evaluation.

Skin Exposure: Wash exposed area with plenty of soap and water. Repeat washing. Remove contaminated clothing and wash thoroughly before reuse. If irritation persists, consult a health care professional..

Inhalation: If exposure by inhalation is suspected, immediately move exposed individual to fresh air. If individual experiences nausea, headache, and dizziness, has difficulty in breathing or is cyanotic, seek a health care professional immediately.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth with copious amounts of water first. Give 1 to 2 glasses of water slowly giving one (1) to two (2) glasses of water or milk. Never give fluids by mouth to individuals who are unconscious. Seek medical attention.

SECTION V – Firefighting Measures

Flammable Properties: Not Available

Flash Point: >212°F

Autoignition Temperature: Not Available

Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Fire Fighting Procedures: Use water spray to cool fire exposed surfaces and protect personnel.

Isolate "fuel" supply from fire.

SECTION V – FIRE FIGHTING MEASURES (continued)

Fire Fighting Equipment: As in any fire, wear self-container breathing apparatus pressure demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Environmental Precautions:

Water Spill: Prevent additional discharge of material, if possible to do so, without hazard. This material is water soluble/dispersable and may not be recoverable.

Land Spill: Prevent additional discharge of material, if possible to do so, without hazard. For small spills, implement cleanup procedures. For large spills, implement cleanup procedures and, if in a public area, advise authorities.

General Procedures: Contain spilled liquid with sand or earth. Recover by pumping or with suitable absorbent.

Release Notes: Recycle or dispose or recovered material in accordance with all Federal, State and local regulations.

SECTION VII – HANDLING AND STORAGE

General Procedures: Keep container closed. Both open and handle containers with care. Store in a cool, well ventilated area from incompatible materials. Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers without commercial cleaning or reconditioning.

Storage Temperature: Ambient.

Storage Pressure: Atmospheric

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Ventilation should be provided to control worker exposures and prevent health risk; and as necessary to reduce, prevent and control aerosol generation.

Personal Protective Equipment:

Eyes and Face: Safety glasses with side shields.

Skin: Where contact may occur, wear chemical resistant gloves and long sleeves.

Respiratory: Where overexposure by inhalation may occur, and engineering work practices or other means of exposure reduction are not adequate, approved respirators may be necessary.

Comments: No workplace exposure limits have been established for this product.

SECTION IX – PHYSICAN AND CHEMICAL PROPERTIES

Appearance:	Clear Liquid
Color:	Light yellow to amber brown
Physical State:	Liquid
Odor:	Mild odor
pH:	6.8 to 8.0
Freezing Point:	32°F
Boiling Point/Range:	212°F
Solubility in Water:	Soluble
Percent Volatile:	40
Specific Gravity:	1.13 to 1.17
Density:	9.4 – 9.8
Viscosity:	<300Cp

SECTION X – STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Excessive Heat

Hazardous Decomposition Products: SYS10

Hazardous Polymerization: Hazardous Polymerization does not occur.

SECTION XI – TOXICOLOGICAL INFORMATION

Toxicity Studies: Toxicity studies have been completed on the active ingredients. The results are shown below:

- Acute Oral Toxicity LD50 (Albino Rats):** 1951 mg/kg
- Acute Dermal Toxicity LD50 (Albino Rats):** >2,000 mg/kg
- Acute Inhalation Toxicity LC50 (Rabbit):** 2.9 mg/l (4 hours)
- Primary Eye Irritation (Albino Rabbits):** No data.
- Primary Skin Irritation (Albino Rabbits):** >2,000 mg/kg

SECTION XII – ECOLOGICAL INFORMATION

Results below based in the active product.

<p>Avian Data: Acute oral LD50, Quail: 354 mg/kg Subacute Dietary LC50 (quail & duck): >5,620 ppm</p>	<p>Aquatic Data: 96 Hour LC50, fish, mg/l: 0.047 Rainbow Trout >600 Sheepshead Minnow 0.21 Bluegill, 13.0 Mysid Shrimp Invertebrate (D; magna), acute toxicity, EC50: 0.37 mg/l (48 hr.)</p>
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SECTION XIII – DISPOSAL CONSIDERATIONS

Empty Container: “Empty” containers retain product residue (liquid and/or vapor) and can be dangerous. Empty containers should be rinsed thoroughly and discarded to trash or offered for recycling where permitted by local, state and federal regulations. Empty drums should be completely drained, properly bunges and promptly returned to a drum reconditioner, or properly disposed of.

RCRA/EPA Waste Information: Discarded product, as sold, would not be considered a RCRA Hazardous Waste.

General Comments: Ensure compliance with local, state and Federal regulations in disposing of this container, residual contents, or rinsing.

SECTION XIV – TRANSPORT INFORMATION

- DOT: Not regulated
- TDG: Not regulated
- ICAO/IATA: Not regulated
- IMDG/IMO: Not regulated

SECTION XV – REGULATORY INFORMATION

United States:

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: Acute Health

FIRE: No PRESSURE GENERATING: No REACTIVITY: No ACUTE: Yes CHRONIC: No

313 REPORTABLE INGREDIENTS: This product does not contain Section 313 Reportable Ingredients

CERCLA)COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). We recommend you contact local authorities to determine if there may be other local reporting requirements.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

RCRA STATUS: Discarded product, as sold, would not be considered a RCRA Waste.

SECTION XVI – OTHER INFORMATION**HMIS RATING:**

Health – 1 Flammability – 0 Physical Hazard – 0 Personal Protection – B

NFPA/HMIS Ratings Legend: Severe = 4 Serious = 3 Moderate = 2 Slight = 1 Minimal = 0**Date Prepared:** 8-20-14 rev. 2

The information in this material safety data sheet should be provided to all who will use, handle, store, transport, or otherwise be exposed to this product.

This information has been prepared for the guidance of plant engineering, operations and management and for persons working with or handling this product. Qualco believes this information to be reliable and up to date as of the date of this publication, but makes no warranty that it is.

Disclaimer: Qualco, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use are beyond the control of Qualco, Inc. Qualco, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Winter Floater

Alternate Product: Sodium tetraborate decahydrate, disodium tetraborate decahydrate,

General Use: product used in swim pool maintenance (cleansers, detergents)

Manufacturer:
QUALCO, INC.
225 Passaic Street
Passaic, NJ 07936

Emergency Telephone Numbers:
800-424-9300 (CHEMTREC – US)
973-473-1222 (Qualco, Inc.)

2. Hazards Identification

Classification of the Substance:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

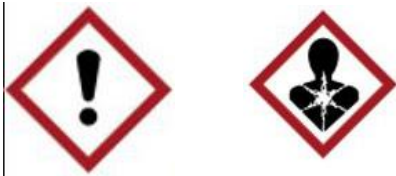
Reproductive toxicity (Category 2) H361 Suspected of damaging fertility or the unborn child

Eye Irritant: (Category 2) H319 Causes serious eye irritation

Acute Oral (Category 5) H303 May be harmful if swallowed

GHS Label Elements, including precautionary statements

Signal Word: WARNING



Hazard Statements

Suspected of damaging fertility of the unborn child. Causes serious eye irritation. May be harmful if swallowed.

Precautionary Statements

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Wash thoroughly after handling. Wear protective gloves/protective equipment as required.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If exposed or concerned: Get medical/advice attention.

Store product in tightly closed container and locked up. Dispose of contents/container to an approved waste disposal plant.

Additional Information: For full text of R-S phrases as well as Hazard Class/Statements and Precautionary Statements, see section 16.

Other Hazards: Emergency Overview: Sodium tetraborate decahydrate is a white odorless, powdered substance that is not flammable, combustible, or explosive, and has low acute oral and dermal toxicity.

Potential Health Effects: Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern because borax decahydrate is poorly adsorbed through intact skin.

Inhalation: Occasional mild irritation effects to nose and throat may occur from inhalation of sodium tetraborate decahydrate dusts at levels higher than 10 mg/m³

Eye Contact: Sodium tetraborate decahydrate is a serious eye irritant

Skin Contact: Sodium tetraborate decahydrate does not cause irritation to intact skin.

Ingestion: Products containing sodium tetraborate decahydrate are not intended for ingestion. Sodium tetraborate decahydrate has low acute toxicity. Small amounts (e.g. a teaspoonful) swallowed accidentally are not likely to cause effects, swallowing larger than that may cause gastrointestinal symptoms.

Reproductive/Developmental: Animal ingestion studies in several species, at high doses, indicate that borates cause reproductive and developmental effects. A human study of occupational exposure to borate dust showed no adverse effect on reproduction. A recent epidemiological study and a peer reviewing report of the past epidemiological studies conducted in China didn't show any negative effect of boron on human fertility (10, 11).

Potential Ecological Effects: Large amounts of sodium tetraborate decahydrate can be harmful to plants and other species. Therefore releases to the environment should be minimized.

Signs and symptoms of exposure: Symptoms of accidental over-exposure to sodium tetraborate decahydrate have been associated with ingestion or absorbed through large areas of damaged skin. These may include nausea, vomiting and diarrhea with delayed effects of skin redness and peeling (See section 11).

3. Composition & Information on Ingredients

This product contains greater than 99.9 percent (%) sodium tetraborate decahydrate (Na₂B₄O₇ · 10H₂O)

Chemical Name	CAS #	Wt. %	EC No.
Sodium Tetraborate	1303-96-4	99.9%	215-540-4

4. First Aid Measures

General Advice: Move out of dangerous area. Seek medical attention. Show this safety data sheet to the doctor in attendance.

Skin Contact: Wash with soap and water. Seek medical attention.

Eye Contact: As with any chemical exposure to the eye, flush eyes with water for at least 15-20 minutes. Seek medical attention.

Inhalation: If symptoms such as nose or throat irritation are observed, remove person to fresh air. If not breathing, give artificial respiration. Seek medical attention.

Ingestion: If large amounts are swallowed (i.e. more than one teaspoon) give two glasses of water or milk to drink and seek medical attention. Never give anything by mouth to an unconscious person.

Note to Physicians: Observation only is required for adult ingestion of less than 7 grams of sodium tetraborate decahydrate. For ingestion in excess of 7 grams, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Hemodialysis should be reserved for massive acute ingestion or patients renal failure. Sodium tetraborate analyses of urine or blood are only useful for documenting exposure and should not be used to evaluate severity of poisoning or to guide treatment (1) (see section 11)

Indication of any immediate medical attention and special treatment needed: No data available.

5. Fire Fighting Measures

Extinguishing Media: Not combustible, use extinguishing method suitable for surrounding fire.

Specific Hazards arising from chemical: None. Substance is non-flammable, combustible or explosive. The product is itself a flame retardant.

Special Protective Actions for fire-fighters: Firefighters should wear pressure demand, self-contained breathing apparatus and full turn-out gear.

Fire/Explosion Hazards: Not applicable

Flammable Limits: Not applicable.

6. Accidental Release Measures

Personal Precautions: Avoid dust formation. In case of exposure to prolonged or high level of airborne dust, wear a personal respirator in compliance with national legislation.

Environmental Precautions: Sodium tetraborate decahydrate is a water soluble white powder that may, at high concentrations cause damage to trees or vegetation by root absorption (see section 12)

Methods and materials for containment and cleaning up

Land Spill: Vacuum, shovel or sweep up sodium tetraborate decahydrate and place in containers for disposal in accordance with applicable local regulations. Avoid contamination of water bodies during clean up and disposal. No personal protective equipment is needed to clean up land spills.

Spillage into Water: Where possible, remove any intact containers from the water. Advise local water authority that none of the affected water should be used for irrigation or for the abstraction of potable water until natural dilution returns the boron value to its normal environmental background level (see sections 12, 13 and 15).

Reference to other Sections: See sections 8 and 13 for further information.

7. Handling and Storage

Handling: To maintain package integrity and to minimize caking of the product, product should be handled on a first-in, first-out basis. Good housekeeping and dust prevention procedures should be followed to minimize dust generation and accumulation. Your supplier can advise you on safe handling. Please contact supplier. The product should be kept away from strong reducing agents. Apply above handling advice when mixing with other substances.

Conditions for safe storage: Keep containers closed and store indoors in a dry, well ventilated location. Provide appropriate ventilation and store as such to prevent any accidental damage.

8. Exposure Controls / Personal Protection

Control Parameters: Occupational exposure limits for dust (total and respirable) are treated by OSHA, Cal OSHA and ACGIH as Particulate Not Otherwise Classified or Nuisance Dust.

Respect regulatory provisions for dust (total and respirable)

ACGIH/TLV: 2 mg/m³

Cal OSHA/PEL: 5 mg/m³

OSHA/PEL (total dust): 15 mg/m³

OSHA/PEL (respirable dust) – 5 mg/m³

DNEL values:

Exposure Pattern	Type/site of Effect	Exposure Route	DNEL value
DNELs for Workers			
Acute	Local	Inhalation	22.3 mg/m ³
Long Term	Systemic	Inhalation	12.8 mg/m ³
Long Term	Systemic	Dermal	42478 mg/day
DNELs for the General Public			
Acute	Systemic	Oral	1.5 mg/kg bw/day
Acute	Local	Inhalation	22.3 mg/m ³
Long Term	Systemic	Dermal (external)	303.5 mg/kg bw/day
Long Term	Systemic	Dermal (systemic)	1.5 mg/kg bw/day
Long Term	Systemic	Inhalation	6.5 mg/m ³
Long Term	Systemic	Oral	1.5 mg/kg
Long Term	Local	Inhalation	22.3 mg/m ³

Source: Chemical Safety Report of disodium tetraborate

PNEC Values

PNEC add freshwater, marine water = 1.35 mg B/L

PNEC add aqua intermittent = 9.1 mg B/L

PNEC add fresh water sediment marine water sediment = 1.8 mg B/kg sediment dry weight

PNEC soil = 5.4 mg B/kg soil dry weight

PNEC add STP = 1.75 mg B/L

Source: chemical Safety Report of Boric Acid

Exposure controls

Appropriate Engineering Controls: Maintain air concentrations below occupational exposure standards.

Use local ventilation to keep airborne concentrations of sodium tetraborate decahydrate dust below permissible exposure levels. Wash hands before breaks and at the end of the workday. Remove and wash soiled clothing.

Individual Protection Measure (Personal Protective Equipment)

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Eyes and Hand Protection: Handle with gloves. Wear eye protection suitable for job tasks.

Environmental exposure controls: No special requirement.

9. Physical and Chemical Properties

Physical State:	Tablet, Solid
Color:	White
Odor:	Odorless
Odor Threshold:	No data available
Molecular Weight:	381.37
Specific Gravity:	1.71-1.73 gr/cm ³ @20oC
pH@20°C (1% solution):	9.2
Melting Point:	741°C (heated in closed space)
Boiling Point:	1575°C

Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Flammability (solid, gas):	Not applicable
Explosive Limits:	Not applicable
Vapor Pressure:	Negligible
Vapor Density:	Not applicable
Relative Density:	1.72@20°C
Solubility in Water:	4.7%@20°C
Auto-Ignition Temperature:	Not applicable
Viscosity:	Not applicable
Exposure Hazard:	Not applicable
Oxidizing Properties:	Not applicable
Bulk Density:	62.43 lbs/ft (1.0 ton/m ³)

10. Stability and Reactivity

Reactivity: No data available

Chemical Stability: sodium tetraborate decahydrate is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. When heated it loses water, eventually forming anhydrous sodium tetraborate decahydrate.

Possibility of hazardous reactions: Reaction with strong reducing agents such as metal hydrides, acetic anhydride or alkali metals will generate flammable hydrogen gas which could create an explosive hazard.

Conditions to Avoid: Exposure to moisture and incompatible materials.

Incompatible Materials: Avoid contact with strong reducing agents such as metal hydrides, acetic anhydride or alkali metals.

Hazardous decomposition Products: Borates, hydrogen, boron oxides.

11. Toxicological Information

Acute Toxicity: Low acute oral toxicity. LD50 in rats is 6,000 mg/kg of body weight

Skin Corrosion/Irritation: Low acute dermal toxicity; LD50 in rabbits is greater than 2,000 mg/kg of body weight. Sodium tetraborate decahydrate is poorly adsorbed through intact skin. Non-irritant.

Serious Eye Damage/Irritation: Sodium tetraborate decahydrate is a serious eye irritant.

Respiratory or Skin Sensitization: Sodium tetraborate decahydrate is not a skin sensitizer.

Germ cell mutagenicity/carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than of equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity: Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes (2). Studies with chemically related boric acid in rat, mouse and rabbit at high doses,

demonstrate developmental effects on the fetus including fetal weight loss and minor skeletal variations. The doses administered were many times in excess of those which humans would normally be exposed to (3, 4, 5). Human epidemiological studies show no increase in pulmonary disease in occupational populations with chronic exposures to boric acid dust and sodium borate dust. A recent epidemiology study under the conditions of normal occupational exposure to borate dusts indicated no effect on fertility.

Aspiration Hazard: Low acute inhalation toxicity; LC₅₀ rats is greater than 2.0 mg/l (or g/m³)

12. Ecological Information

Sodium tetraborate decahydrate occurs naturally in sea water at an average concentration of 5 mg B/l and fresh water at 1 mg B/l or less. In dilute aqueous solutions the predominant boron species is undissociated boric acid.

Toxicity: Sodium tetraborate decahydrate is an essential micronutrient for healthy growth of plants, however it can be harmful to boron sensitive plants in higher quantities. Care should be taken to minimize the amount of borate product released to the environment.

Algal toxicity: Green algae pseudokirchneriella subcapitata 72 hr EC50 – biomass = 40 mg B/L or 229 mg boric acid/L.

Invertebrate Toxicity: Daphnia, Daphnia magna 48 hr LC50 = 133 mg B/L or 760 mg boric acid/L or 619 mg disodium tetraborate, anhydrous/L

Fish Toxicity: Fish, fatheted minnow Pimephales promelas 48 hr LC50 = 79.7 mg B/L or 456 mg boric acid/L or 370 mg disodium tetraborate anhydrous

Persistence and degradability: Sodium tetraborate is naturally occurring and ubiquitous in the environment.

Bio-accumulative Potential: Not significantly bio-accumulative.

Mobility in Soil: This product is soluble in water and is leachable through normal soil

Results of PET and vPvB Assessment: No data available

Other Adverse Effects: No data available

13. Disposal Considerations

Dispose of in accordance with all local, state, and federal regulations. Contact a licensed waste disposal service to dispose of this material. Surplus product should, if possible, be used for an appropriate application.

14. Transportation Information

Sodium tetraborate decahydrate has no UN number, and is not regulated under international rail, road, water or air transport regulations.

US DOT: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

15. Regulatory Information

It should be noted that borates are safe under conditions of normal handling and use, besides, they are essential nutrients to plants, and research shows that they play a beneficial role in human health.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III. Section 302.

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title II, Section 313

SARA 311/312 Hazards: Chronic Health Hazard

Massachusetts Right To Know Components: Disodium tetraborate decahydrate CAS #1303-96-4

Pennsylvania Right To Know Components: Disodium tetraborate decahydrate CAS #1303-96-4

New Jersey Right To Know Components: Disodium tetraborate decahydrate CAS #1303-96-4

California Prop 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

Clean Air Act: Sodium tetraborate decahydrate was not manufactured with and does not contain any Class 1 or Class I ozone depleting substances.

16. Other Information

H361: Suspected of damaging fertility or the unborn child

H319 Causes serious eye irritation

H303 May be harmful if swallowed

Revision Date: May 2017

Disclaimer: The information in this SDS was obtained from sources which we believe to be reliable. However the information is provided without any warranty, express or implied, regarding its accuracy, reliability or completeness. The conditions or methods of handling, storage use or 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. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. This SDS was prepared and is to be used only for this product.

POOL TROL PHOSPHATE REMOVER

1-CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Date Prepared: 7-19-2017
 Material Identification: Pool Trol Phosphate Remover
 Trade names and Synonyms: Lanthanum Chloride
 Company Identification: Qualco Inc. / 225 Passaic Street / Passaic, NJ 07055
 Phone Number: 973-473-1222 Emergency: CHEMTREC – 1-800-424-9300

2-HAZARDS IDENTIFICATION

Physical Hazards: Not classified

Health Hazards: Not classified

Environmental Hazards: Hazardous to the aquatic environment, acute & long-term hazard Category 1



OSHA defined hazards: Not classified

Signal word: Warning

Hazard Statement: Very toxic to aquatic life with long lasting effects.

Precautionary Statement:

Prevention: Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response: Wash hands after handling. Collect spillage.

Storage: Store in a well ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None

3-COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical Name: Lanthanum Chloride, Hydrate, 100%

CAS Number: 20211-76-1

4-FIRST AID MEASURES

Inhalation: Move to fresh air.

Skin Contact: Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye Contact: Rinse with water. Get medical attention if irritation develops and persists.

Ingestion: Do not use mouth-to-mouth method if victim ingested the substance.

General Information: Ensure medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Provide general supportive measures and treat symptomatically.

5-FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire – water, fog, foam, dry chemical powder, carbon dioxide (CO₂).

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: None known.

Special Protective Equipment and Precautions for Firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire Fighting Equipment/Instructions: Use water spray to cool unopened containers.

Specific Methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: No unusual fire or explosion hazards noted.
6-ACCIDENTAL RELEASE MEASURES
<p>Personal Precautions, Protective Equipment and Emergency Procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.</p> <p>Methods and materials for containment and cleaning up: This product is miscible in water. Prevent entry into waterways, sewers, basements or confined areas. Stop the flow of material, if this is without risk. Avoid dust formation. Prevent product from entering drains. Following product recovery, flush area with water. Sweep up or vacuum up spillage and collect in suitable container for disposal. For waste disposal, see Section 13 or the SDS. Small Dry Spills: With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.</p> <p>Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water course or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.</p>
7-HANDLING AND STORAGE
<p>Precautions for Safe Handling: Use only with adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.</p> <p>Conditions for Safe Storage Including Any Incompatibilities: Store in original tightly closed container. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).</p>
8-EXPOSURE CONTROLS/PERSONAL PROTECTION
<p>Occupational Exposure Limits: No exposure limits noted for ingredient(s).</p> <p>Biological Limit Values: No biological exposure limits noted for the ingredient(s)</p> <p>Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas.</p> <p>Individual Protection Measures, such as Personal Protective Equipment:</p> <p>Eye/Face Protection: Wear chemical goggles.</p> <p>Skin/Hand Protection: Wear appropriate chemical resistant gloves.</p> <p>Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment.</p> <p>Thermal Hazards: Wear appropriate thermal protective clothing, when necessary.</p> <p>General Hygiene Considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.</p>
9-PHYSICAL AND CHEMICAL PROPERTIES
<p>Appearance: Crystalline</p> <p>Physical State: Liquid</p> <p>Form: Liquid</p> <p>Color: White</p> <p>Odor: Odorless</p> <p>Odor Threshold: Not available</p> <p>pH: Not available</p> <p>Melting Point/Freezing Point: 194°F (90°C) (loses water)</p> <p>Initial boiling point and boiling range: Not available</p> <p>Flash Point: Not available</p> <p>Evaporation Rate: Not available</p> <p>Flammability (solid, gas): Not available</p> <p>Upper/lower flammability or explosive limits:</p> <p>Flammability limit – lower (%): Not available</p> <p>Flammability limit – upper (%): Not available</p> <p>Explosive limit – lower (%): Not available</p> <p>Explosive limit – upper (%): Not available</p>

<p>Vapor Pressure: Not available Vapor Density: Not available Relative Density: Not available Solubility(ies) – In Water: Very soluble Partition Coefficient (n-octanol/water): Not available Auto-ignition temperature: Not available Decomposition temperature: Not available Viscosity: Not available Other Information: Molecular Formula: LaCl₃ 7H₂O Molecular Weight: 371.37</p>
10-STABILITY AND REACTIVITY
<p>Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport Chemical Stability: Material is stable under normal conditions. Possibility of hazardous reactions: Hazardous polymerization does not occur. Conditions to Avoid: Non known. Contact with incompatible materials. Incompatible Materials: None known. Hazardous Decomposition Products: No hazardous decomposition products are known.</p>
11-TOXICOLOGICAL INFORMATION
<p>Information on likely routes of exposure: Inhalation: No adverse effects due to inhalation are expected. Skin Contact: No adverse effects due to skin contact are expected Eye Contact: Direct contact with eyes may cause temporary irritation. Ingestion: Expected to be a low ingestion hazard. Symptoms Related to the physical, chemical and toxicological characteristics: Information on toxicological effects: Acute toxicity: The toxicological properties of this material have not been fully investigated and its handling and use may be hazardous. Skin Corrosion/Irritation: Prolonged skin contact may cause temporary irritation. Serious Eye Damage/Eye Irritation: None known. Respiratory or skin sensitization: Respiratory Sensitization: Not available. Skin Sensitization: None known. Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects. Specific Target Organ Toxicity: Repeated Exposure: Not classified Aspiration Hazard: Not available</p>
12-ECOLOGICAL INFORMATION
<p>Ecotoxicity: Very toxic to aquatic life with long lasting effects. Product: lanthanum chloride, CAS #10025-84-0) Species: Water flea (Daphnia carinata) Test Results: 0.0432 mg/l, 48 hours Persistence and degradability: None known Bioaccumulative potential: No data available Mobility in soil: No data available Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.</p>

13-DISPOSAL CONSIDERATIONS

Disposal Instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local Disposal Regulations: Dispose in accordance with all applicable regulations.

Hazardous Waste Code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues/Unused products: Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions)

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain residue, follow label warning even after container is emptied.

14-TRANSPORTATION INFORMATION

DOT: Not regulated as dangerous goods.

IATA: Not regulated as dangerous goods.

IMDG: Not regulated as dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not Applicable

15-REGULATORY INFORMATION

US Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. All components are on the US EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpart D): Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed

SRA 304 Emergency Release Notification: Not regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories:

Immediate Hazard: No

Delayed Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

SARA 302 Extremely Hazardous Substance: Not Listed

SARA 311/312 (TRI Reporting): Not regulated

Other Federal Regulations:

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not Regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): Not Regulated

Safe Drinking Water Act (SDWA): Not Regulated

US State Regulations:

US California Controlled Substances: CA Dept. of Justice (California Health and Safety Code Section 11100): Not Listed

US Massachusetts RTK – Substance List: Not Regulated

US New Jersey Worker and Community Right To Know Act: Not Listed

US Pennsylvania Worker and Community Right To Know Act: Not Listed

US Rhode Island RTK: Not regulated

US California Proposition 65: California Safe Drinking Water and Toxic Enforcement Act of 1986

(Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

16-OTHER INFORMATION

Issue Date: July 17, 2015

Disclaimer: Qualco, Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's

responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.