

Product name ClearView Poly Power 60**Revision date** 4-29-15**Section 1 Identification**

Product ID: Poly Power 60
Synonyms: Polyquaternium 42; Polixetonium chloride; WSCP
Chemical Name: Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]
CAS Number: 31512-74-0
Product Use: Algacide and Water Clarifier for Swimming pools.

Supplier: Oreq Corporation
42306 Remington Ave.
Temecula, CA 92532
951-296-5076

Emergency Phone# CHEMTREC 800-424-9300

Section 2 Hazards identification

GHS Classification: Acute Toxicity: Oral, Category 4
Aquatic Toxicity (Acute), Category 1

GHS Signal Word: **WARNING**

Hazard Pictograms:



GHS Hazard Phrases: H302 - Harmful if swallowed.
H400 - Very toxic to aquatic life.

GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.

GHS Response Phrases: P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P330 - Rinse mouth.
P391 - Collect spillage.

GHS Storage and Disposal Phrases: P501 - Dispose of contents/container .in accordance with all federal, state and local regulations...

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic): Chronic: None.

Inhalation: Prolonged inhalation may be harmful

Skin Contact: Prolonged or repeated skin contact may cause irritation.

Eye Contact: Contact may cause eye irritation.

Ingestion: Harmful if swallowed. If medical advice is needed, have product container or label at hand.



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Section 3 Composition / Information on ingredients

CHEMICAL NAME	CAS#	CONCENTRATION	RTECS%
Poly[oxyethylene(dimethylimonio)ethylene(dimethylimonio)ethylene dichloride]	31512-74-0	60%	TR1650000

Section 4 First - aid measures

Emergency and First Aid Procedures: Wash with plenty of soap and water.

In Case of Inhalation: IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. IF NOT BREATHING, call 911 and or ambulance, then give artificial respiration.

In Case of Skin Contact: Wash with soap and water. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs, seek medical advice/attention.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water. After initial flushings, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

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

Note to Physician: Treat symptomatically and supportively.

Section 5 Fire - fighting measures

Flammability Classification: Non-flammable

Flash Pt: > 212.0 F (100.0 C) Method Used: Cleveland Open Cup

Explosive Limits: LEL: N.A. UEL: N.A.

Autoignition Pt: NA

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

Unsuitable Extinguishing Media: No information available.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), & full protective gear. Material will not burn.

Flammable Properties and Hazards: No data available.



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Section 6 Accidental release measures

Protective Precautions, Protective Equipment and Emergency Procedures: Wear appropriate gloves to prevent skin exposure. Wear chemical splash goggles.

Environmental Precautions: Avoid release to the environment. This product is toxic to fish and aquatic organisms. Do not discharge into effluent containing this product into lakes, streams, ponds or estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharging. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance call your State Water Board Authority or Regional Office of the EPA.

Steps To Be Taken In Case Material Is Released Or Spilled: Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. This material will sink and is soluble/dispersible, it is probably not recoverable. Notify the Authorities. Prevent further leakage or spillage if safe to do so.

Section 7 Handling and storage

Precautions To Be Taken in Handling: Do not contaminate water, food, or feed by storage or disposal. Keep container closed when not in use. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Do NOT reuse empty containers without commercial cleaning or reconditioning.

Precautions To Be Taken in Storing: No special storage requirements. Storage Temperature: Ambient. Storage Pressure: Atmospheric.

Other Precautions: Spills must be absorbed with sawdust or sand and disposed of in a sanitary landfill. Leaking or damaged drums must be placed in overpack drums for disposal. Do not stack drums more than (4) drums high.

Section 8 Exposure controls / personal protection

CAS No.	Permissible Exposure Limits					
	OSHA		WISHA		ACGIH (TLV)	
	TWA	STEL	TWA	STEL	TWA	STEL
31512-74-0	No Data	No Data	No Data	No Data	No Data	No Data

Respiratory Equipment (Specify Type): Respirator protection is not normally required.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Protective Gloves: Impervious gloves.

Other Protective Clothing: Clothes to prevent skin contact. Protective garments not normally required.

Engineering Controls (Ventilation etc.): Ventilation should be provided to control worker exposures and prevent health risks and as necessary to reduce, prevent and control dust, mist, vapor or aerosol generation.



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Section 8 Exposure controls / personal protection (Continued)

Work/Hygienic/Maintenance Practices: Wash thoroughly after handling. Wash hands before breaks and at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls: Use adequate ventilation to keep airborne concentrations low. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Section 9 Physical and chemical properties

Physical States: Gas Liquid Solid
Appearance and Odor: Light yellow to brown. Mild odor.
Melting Point: NP
Boiling Point: 212.0 F (100.0 C)
Decomposition Temperature: NA
Autoignition Pt: NA
Flash Pt: > 212.0 F (100.0 C) Method Used: Cleveland Open Cup
Explosive Limits: LEL: N.A. UEL: N.A.
Specific Gravity (Water = 1): 1.15 - 1.17 at 25.0 C (77.0 F)
Density: 9.6 - 9.8 LB/GA at 25.0 C (77.0 F)
Bulk density: NA
Vapor Pressure (vs. Air or mm Hg): NA
Vapor Density (vs. Air = 1): NA
Evaporation Rate: NA
Solubility in Water: Soluble
Saturated Vapor Concentration: NA
Viscosity: < 125 CPS at 25.0 C (77.0 F)
Octanol/Water Partition Coefficient: unknown
pH: 6 - 8
Percent Volatile: 40.00 % by weight.
VOC / Volume: NA
Particle Size: NP
Heat Value: NA
Corrosion Rate: NE

Section 10 Stability and reactivity

Stability: Unstable Stable
Conditions To Avoid - Instability: No dangerous reactions are known.
Incompatibility – Materials To Avoid: None known.
Hazardous Decomposition Or Byproducts: No data available. None known.
Possibility of Hazardous Reactions: Will occur Will not occur
Conditions To Avoid-Hazardous Reactions: No data available.

Section 11 Toxicological information

Toxicological Information: Epidemiology: No data available.
Teratogenicity: No data available.
Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies:
CAS# 31512-74-0:
Irritation or Corrosion: Acute toxicity, LD50, Oral, Rat, 1850. MG/KG.
Result:



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Section 11 Toxicological information (Continued)

Behavioral: Convulsions or effect on seizure threshold.
Gastrointestinal:Hypermotility, diarrhea.
Nutritional and Gross Metabolic:Changes in:Body temperature increase.
- Farm Chemicals Handbook., Meister Pub., 37841 Euclid Ave., Willoughy, OH 44094,
Vol/p/yr: -,C326, 1991

Acute toxicity, LD50, Skin, Species: Rabbit, > 2.000 GM/KG.
Result:
Liver: Fatty liver degeneration.
Kidney, Ureter, Bladder:Other changes.
Blood:Other changes.
- Acute Toxicity Data. Journal of the American College of Toxicology, Part B., Mary Ann
Liebert, Inc., 1651 Third Ave., New York, NY 10128, Vol/p/yr: 1,201, 1992

Symptoms related to Toxicological No data available.

Characteristics: Chronic Toxicological No data available.

CAS#	CHEMICAL NAME	NTP	IARC	ACGIH	OSHA
31512-74-0	Poly(oxyethylene(dimethylimino)ethylene(dime thylimino)ethylene dichloride)	NA	NA	NA	NA

Section 12 Ecological information

General Ecological No data available.

Information:

Results of PBT and No information available.

VPvB assessment: CAS# 31512-74-0:

LC50, Fathead Minnow (*Pimephales promelas*), larva(e), 353.0 UG/L, 48 H, Mortality;
The Acute and Chronic Effects of a Polyquaternary Ammonium Molluscicide
Poly[Oxyethylene(Dimethyliminio)Ethylene-(Dimethyliminio)Ethylene Dichloride], Giltner,
J.H.J., and P.C. Baumann, 1991

LC50, Rainbow Trout (*Oncorhynchus mykiss*), 44.00 UG/L, 48 H, Mortality, Water
temperature: 17.00 C (62.6 F) C, pH: 7.70, Hardness: 40.00 MG/L.

Result:

Morphological changes.

- Toxicity of Candidate Molluscicides to Zebra Mussels (*Dreissena polymorpha*) and
Selected Nontarget Organisms, Waller, D.L., J.J. Rach, W.G. Cope, L.L. Marking, S.W.
Fisher, and H. Dabrowska, 1993

LC50, Harlequinfish, Red Rasbora (*Rasbora heteromorpha*), 660.0 UG/L, 24 H,
Mortality, Water temperature: 20.00 C (68.0 F) C, pH: 8.10, Hardness: 20.00 MG/L;
Acute Toxicity of 102 Pesticides and Miscellaneous Substances to Fish, Tooby, T.E.,
P.A. Hursey, and J.S. Alabaster, 1975

LC50, Channel Catfish (*Ictalurus punctatus*), 3350. UG/L, 48 H, Mortality, Water
temperature: 17.00 C (62.6 F) C, pH: 7.70, Hardness: 40.00 MG/L.

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Section 12 Ecological information (Continued)

Result:
Morphological changes.
- Toxicity of Candidate Molluscicides to Zebra Mussels (*Dreissena polymorpha*) and Selected Nontarget Organisms, Waller, D.L., J.J. Rach, W.G. Cope, L.L. Marking, S.W. Fisher, and H. Dabrowska, 1993

LC50, Zebra Mussel (*Dreissena polymorpha*), 60000. UG/L, 48 H, Mortality, Water temperature: 17.00 C (62.6 F) C, pH: 7.70, Hardness: 40.00 MG/L.

Result:
Morphological changes.
- Toxicity of Candidate Molluscicides to Zebra Mussels (*Dreissena polymorpha*) and Selected Nontarget Organisms, Waller, D.L., J.J. Rach, W.G. Cope, L.L. Marking, S.W. Fisher, and H. Dabrowska, 1993

Effective concentration to {0} % of test organisms, Zebra Mussel (*Dreissena polymorpha*), 2000. UG/L, 250 H, Behavior, Water temperature: 20.00 C (68.0 F) - 22.00 C (71.6 F) C, pH: 7.80, Hardness: 100.00 MG/L.

Result:
No loss of equilibrium observed.
- Control of the Biofouling Mollusc, *Dreissena polymorpha* (Bivalvia: Dreissenidae), with Sodium Hypochlorite and with Polyquaternary Ammonia and Benzothiazole Compounds, Martin, I.D., G.L. Mackie, and M.A. Baker, 1993

LC50, Water Flea (*Ceriodaphnia dubia*), neonate, 218.0 UG/L, 48 H, Mortality; The Acute and Chronic Effects of a Polyquaternary Ammonium Molluscicide Poly[Oxyethylene(Dimethyliminio)Ethylene-(Dimethyliminio)Ethylene Dichloride], Giltner, J.H.J., and P.C. Baumann, 1991

Persistence and Degradability: No information available.
Bioaccumulative Potential: Toxic to aquatic life. Unknown Effect.
Mobility in Soil: Unknown Effect.

Section 13 Disposal considerations

Waste Disposal Method:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Discarded product, as sold, would not be considered a RCRA Hazardous Waste. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. Empty drums should be completely drained and properly bunged, then promptly returned to a drum reconditioner, or properly disposed of.



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Section 14 Transport information

GHS Classification: Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed
Aquatic Toxicity (Acute), Category 1 - Warning! Very toxic to aquatic life

LAND TRANSPORT (US DOT):
DOT Proper Shipping Name: Not regulated as a hazardous material.
DOT Hazard Class:
UN/NA Number:

LAND TRANSPORT (Canadian TDG):
TDG Shipping Name: Not regulated as a hazardous material.

LAND TRANSPORT (European ADR/RID):
ADR/RID Shipping Name: Not regulated as a hazardous material.
UN Number:
Hazard Class:

MARINE TRANSPORT (IMDG/IMO):
IMDG/IMO Shipping Name: Not regulated as a hazardous material.

AIR TRANSPORT (ICAO/IATA):
ICAO/IATA Shipping Name: Non-Hazardous for Air Transport.

Section 15 Regulatory information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS#	CHEMICAL NAME	S.302 (EHS)	S.304 RQ	S.313 (TRI)
31512-74-0	Poly[oxyethylene(dimethylimino)ethylene(dimethylimino)ethylene dichloride]	No	No	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:
 Yes No Acute (immediate) Health Hazard
 Yes No Chronic (delayed) Health Hazard
 Yes No Fire Hazard
 Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard

CAS # 31512-74-0	Hazardous Components (Chemical Name) Poly(oxyethylene(dimethylimino)ethylene(dimethylimino)ethylene dichloride)	Other US EPA or State Lists CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No
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CAS # 31512-74-0	Hazardous Components (Chemical Name) Poly(oxyethylene(dimethylimino)ethylene(dimethylimino)ethylene dichloride)	International Regulatory Lists Canadian DSL: No; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: No; China IECSC: Yes; Japan ENCS: No; Korea ECL: Yes - KE-28990; Philippines ICCS: No; Taiwan TCSCA: Yes; REACH: Yes - (P)
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Section 15 Regulatory information (Continued)

Regulatory 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:

WARNING

May be fatal if swallowed or absorbed through the skin

Harmful if inhaled

Causes skin irritation

Causes substantial but temporary eye injury

This pesticide is extremely toxic to fish.

Regulatory Information Statement:

Regulatory information provided in this SDS was prepared for this product and is to be used only for the product in its present form. If this material is used as a component in another material or altered in any way, the information in this SDS may no longer be applicable. This document was generated for the purpose of distributing health, safety and environmental data.

Section 16 Other information

HMIS RATING

HEALTH: 1

FLAMMABILITY: 0

PHYSICAL HAZARD: 0

PPE: B

NFPA RATING

HEALTH: 1

FLAMMABILITY: 0

INSTABILITY: 0

DATE OF PREPARATION

4-29-2015

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