KIT SDS COVER LETTER

Product name **ClearView**
Kit Part # SS1500

Revision date **1-12-17**

ATTACHED –

SS1500

Kit Component SDS's – Qty 4

1. Clearview Mineral Magnet
2. Clearview Super Crystal Clarifier
3. Clearview Poly Power 30
4. Clearview Shimmer Shock

DATE OF PREPARATION

1-12-17

THE INFORMATION SUPPLIED ABOVE IS PRESENTED IN GOOD FAITH AND HAS BEEN DERIVED FROM SOURCES BELIEVED TO BE RELIABLE, HOWEVER, NO WARRANTY EXPRESSED OR IMPLIED IS EXTENDED REGARDING ITS ACCURACY OR THE RESULTS TO BE OBTAINED FROM ITS USE SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL. ALL RISKS ARE ASSUMED BY THE USER.

SAFETY DATA SHEET

Product name **ClearView Mineral Magnet**

Revision date 4**-18-15**

Section 1 Identification

Product ID: Mineral Magnet
Synonyms: HEDP: 1-Hydroxyethlydene-1, 1-diphosphonic acid
Product Category: Phosphonate
Product Use: Stain Remover,
Removes metals from pool water and metal stains and scale from surfaces.

Supplier: **Oreq Corporation**
42306 Remington Avenue
Temecula, CA 92590
951-296-5076

Emergency Phone# **Chemtrec: 1-800-424-9300**

Section 2 Hazards identification

Acute Toxicity: Oral, Category 4
Skin Corrosion/Irritation, Category 1A-1C
Serious Eye Damage/Eye Irritation, Category 1
Specific Target Organ Toxicity (single exposure), Category 2

Warning **Danger** **Warning**

GHS Hazard Phrases:
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H371 - May cause damage to organs .

GHS Precaution Phrases:
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:
P301+312- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+311 - If exposed of concerned: Call a POISON CENTER/Doctor/...
P310 - Immediately call a POISON CENTER or doctor/physician.
P321 - Specific treatment see ... on this label.
P330 - Rinse mouth.
P363 - Wash contaminated clothing before reuse.

Product name **ClearView Mineral Magnet**

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Section 2 Hazards identification (Continued)

GHS Storage and Disposal Phrases:
P405 - Store locked up.
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:
Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Mist may be severely irritating to nose, throat and lungs depending on concentration and **d**uration of exposure.

Skin Contact:
Causes skin irritation.
Skin Absorption: May be harmful if absorbed through the skin.
Corrosive, causes permanent skin damage (scarring).

Eye Contact:
Causes severe eye irritation.
Corrosive. Will cause eye burns and permanent tissue damage.

Ingestion:
Corrosive to mouth, esophagus and stomach.
Harmful if swallowed.
Low order of Toxicity.

Section 3 Composition / Information on ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration	RTECS #
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	32 - 34 %	SZ8562100
13598-36-2	Phosphorous acid, Ortho	<2.0 %	SZ6400000

Section 4 First - aid measures

Emergency and First Aid Procedures:
In case of adverse exposure to vapors and/or aerosols, immediately remove the affected victim from exposure and get immediate medical attention. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.

In Case of Inhalation:
If inhaled, remove to fresh air. If breathing is difficult, give oxygen.

In Case of Skin Contact:
In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

In Case of Eye Contact:
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

In Case of Ingestion:
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Signs and Symptoms Of Exposure:
The chemical, physical, and toxicological properties of this product have not been thoroughly investigated.

Note to Physician:
Treat symptomatically and supportively.

Product name **ClearView Mineral Magnet**

Revision date 4**-18-15**

Section 5 Fire - fighting measures

Flammability Classification: non-flammable
Flash Pt: NP
Explosive Limits: LEL: N.A. UEL: N.A.
Autoignition Pt: NP
Suitable Extinguishing Media: Suitable: Water spray.
Unsuitable Extinguishing Media: Unknown.
Fire Fighting Instructions: Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Specific Hazard(s): As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn.

Flammable Properties and Hazards: No data available.

Section 6 Accidental release measures

Steps To Be Taken In Case Material Is Released Or Spilled: PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
Methods for cleaning up.
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. 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.

Section 7 Handling and storage

Precautions To Be Taken in Handling: "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of. Avoid breathing (dust, vapor, mist, gas). Avoid contact with eyes, skin, and clothing.

Precautions To Be Taken in Storing: No special storage requirements.

Section 8 Exposure controls / personal protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	PEL: Not Available	TLV: Not Available	Not Available
13598-36-2	Phosphorous acid, Ortho	PEL: Not Available	TLV: Not Available	Not Available

Respiratory Equipment (Specify Type): Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Respirator protection is not normally required.

Product name **ClearView Mineral Magnet**

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Section 8 Exposure controls / personal protection (Continued)

Eye Protection:	Splash proof safety goggles.
Protective Gloves:	Hand: Compatible chemical-resistant gloves.
Other Protective Clothing:	Where splashing is possible, full chemically resistant protective clothing (e.g. acid suit) and boots are required.
Engineering Controls (Ventilation etc.):	Safety shower and eye bath. Mechanical exhaust required. There are no special ventilation requirements.
Work/Hygienic/Maintenance Practices:	Wash thoroughly after handling.

Section 9 Physical and chemical properties

Physical States:	[ ] Gas [X] Liquid [ ] Solid
Appearance and Odor:	None to slight odor. Clear colorless to light straw.
Freezing Point:	NA
Boiling Point:	NA
Decomposition Temperature:	NA
Autoignition Pt:	NP
Flash Pt:	NP
Explosive Limits:	LEL: N.A. UEL: N.A.
Specific Gravity (Water = 1):	~ 1.444 at 25.0 C (77.0 F)
Density:	~ 12.0 LB/GA
Bulk density:	NA
Vapor Pressure (vs. Air or mm Hg):	NA
Vapor Density (vs. Air = 1):	NA
Evaporation Rate:	NA
Solubility in Water:	Complete
Saturated Vapor Concentration:	NA
Viscosity:	NA
Octanol/Water Partition Coefficient:	Not Available
pH:	< 2
Percent Volatile:	~ 38.00 % by weight.
VOC / Volume:	NP
Particle Size:	NP
Heat Value:	NP
Corrosion Rate:	NA
Molecular Formula & Weight:	C2H8O7P2 206.028

Section 10 Stability and reactivity

Reactivity:	Substantial heat is evolved when mixed with alkali.
Stability:	Unstable [ ] Stable [X]
Conditions To Avoid -	Contact with common metals produces flammable hydrogen gas.

Instability:

Section 10 Stability and reactivity (Continued)

Incompatibility - Materials To Avoid: Strong oxidizing agents and strong alkali.

Hazardous Decomposition Or Byproducts: Thermal decomposition may produce toxic fumes of phosphorus oxides and/or phosphine. Carbon dioxide.

Possibility of Hazardous Reactions: Will occur [ ] Will not occur [X]

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# 2809-21-4:
Reproductive Effects:, TDLo, Intraperitoneal, Mouse, 40.00 MG/KG, female 7 day(s) after conception.
Result:
Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
- Shika Igaku. Odontology., Vol/p/yr: 50,879, 1987

Reproductive Effects:, TDLo, Intraperitoneal, Mouse, 200.0 MG/KG, female 7 day(s) after conception.
Result:
Specific Developmental Abnormalities: Craniofacial (including nose and tongue).
Specific Developmental Abnormalities: Blood and lymphatic system (including spleen and marrow).
- Journal of Osaka Dental University., Vol/p/yr: 20,91, 1986
Reproductive Effects:, TDLo, Subcutaneous, Mouse, 200.0 MG/KG, female 13 day(s) after conception.
Result:
Specific Developmental Abnormalities: Musculoskeletal system.
- Teratology, The International Journal of Abnormal Development, Alan R. Liss, Inc., 41 E. 11th St., New York, NY 10003, Vol/p/yr: 26(1),16A, 1982

Reproductive Effects:, TDLo, Subcutaneous, Mouse, 1400. MG/KG, female 11-17 day(s) after conception.
Result:
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
Specific Developmental Abnormalities: Musculoskeletal system.
- Senten Ijo. Congenital Anomalies., For publisher information, see CGANE7, Osaka Japan, Vol/p/yr: 22,47, 1982

Acute toxicity, LD50, Oral, Mouse, 1800. MG/KG.
Result:
Behavioral: Convulsions or effect on seizure threshold.
Gastrointestinal:Hypermotility, diarrhea.

Nutritional and Gross Metabolic:Changes in:Body temperature increase.

Section 11 Toxicological information (Continued)

- Angewandte Chemie, International Edition in English., VCH Pub., Inc., 303 NW 12th Ave., Deerfield Beach, FL 33441, Vol/p/yr: 14,94, 1975

CAS# 13598-36-2:
Acute toxicity, LD50, Oral, Rat, 1895. MG/KG.
Result:
Behavioral: Convulsions or effect on seizure threshold.
Gastrointestinal:Hypermotility, diarrhea.
Nutritional and Gross Metabolic:Changes in:Body temperature increase.
- Gigiena i Sanitariya, Mezhdunarodnaya Kniga, ul. B. Yakimanka, 39, 113095, Moscow 113095 Russia, Vol/p/yr: 56(4),24, 1991

Acute toxicity, LD50, Oral, Mouse, 1700. MG/KG.
Result:
Behavioral: Tremor.
Behavioral: Muscle contraction or spasticity.
- Toksikologicheskii Vestnik., Vol/p/yr: (6),38, 1995

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	n.a.	n.a.	n.a.	n.a.
13598-36-2	Phosphorous acid, Ortho	n.a.	n.a.	n.a.	n.a.

Section 12 Ecological information

No data available.

Results of PBT and vPvB Assessment:
CAS# 2809-21-4:
LC50, Bluegill (Lepomis macrochirus), 868.0 MG/L, 96 H.
LC50, Rainbow Trout (Oncorhynchus mykiss), 368.0 MG/L, 96 H.
Effective concentration to {0}% of test organisms., Water Flea (Daphnia magna), 527.0 MG/L, 48 H.
CAS# 13598-36-2:
Fathead Minnow (Pimephales promelas), 100.0 MG/L, 96 H, Mortality, Water temperature: 82.00 C (179.6 F) C, pH: 8.50; Toxicity of Photographic Processing Chemicals to Fish, Terhaar, C.J., W.S. Ewell, S.P. Dziuba, and D.W. Fassett, 1972

Effective concentration to {0} % of test organisms, Fathead Minnow (Pimephales promelas), 10000. MG/L, 4 H, Mortality, Water temperature: 82.00 C (179.6 F) C, pH: 8.50; Toxicity of Photographic Processing Chemicals to Fish, Terhaar, C.J., W.S. Ewell, S.P. Dziuba, and D.W. Fassett, 1972

Persistence and Degradability: Degrades after acclimatization.

Bioaccumulative Potential: This material is not expected to bio-accumulate.

Mobility in Soil: Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

Product name **ClearView Mineral Magnet**

Revision date 4**-18-15**

Section 13 Disposal considerations

Waste Disposal Method: Discarded product, as sold, would be considered a RCRA Characteristic Hazardous Waste as it meets the definition /characteristic of corrosivity (designated as D002). APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. 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.

Waste Disposal Method: D002

Section 14 Transport information

GHS Classification: Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed
Skin Corrosion/Irritation, Category 1A-1C - Danger! Causes severe skin burns and eye damage
Serious Eye Damage/Eye Irritation, Category 1 - Danger! Causes serious eye damage
Specific Target Organ Toxicity (single exposure), Category 2 - Warning! May cause damage to organs {<target organs>}

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (1-Hydrydroxyelthylidene-1, 1-diphosphonic acid)
DOT Hazard Class: 8 - CORROSIVE
UN/NA Number: UN3265 **Packing Group:** II

LAND TRANSPORT (Canadian TDG):
TDG shipping Name: No information available.

LAND TRANSPORT (European ADR/RID):
ADR/RID Shipping Name:
UN Number: 3265 **Packing Group:** II
Hazard Class: 8 - CORROSIVE

MARINE TRANSPORT (IMDG/IMO):
IMDG/IMO Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (1-Hydroxyethylidene-1, 1-diphosphonic acid)
UN Number: |N| **Packing Group:** II
Hazard Class: 8 - CORROSIVE
IMDG MFAG Number: |
IMDG EMS Page: |

Product name **ClearView Mineral Magnet**

Revision date 4**-18-15**

AIR TRANSPORT (ICAO/IATA):
ICAO/IATA Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (1-Hydroxyethylidene-1, 1-diphosphonic acid) Solution.

Section 15 Regulatory information

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

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	No	No	No
13598-36-2	Phosphorous acid, Ortho	No	No	No

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

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
13598-36-2	Phosphorous acid, Ortho	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
2809-21-4	1-Hydroxyethylidene-1,1-diphosphonic acid	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; China IECSC: Yes; Japan ENCS: Yes - (2)-2936; Korea ECL: Yes - KE-20516; Philippines ICCS: Yes; Taiwan TCSCA: Yes; REACH: Yes - (R), (P)
13598-36-2	Phosphorous acid, Ortho	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes; Australia ICS: Yes; China IECSC: Yes; Japan ENCS: Yes - (1)-421; Korea ECL: Yes - KE-28491; Philippines ICCS: Yes; Taiwan TCSCA: Yes; REACH: Yes - (R), (P)

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

Hazard Rating System:

	HEALTH	FLAMMABILITY	PHYSICAL	PPE
HMIS -	**3**	**0**	**1**	**Dn**

	HEALTH	FLAMMABILITY	INSTABILITY	SPECIAL HAZARD
NFPA -	**3**	**0**	**1**	**ACID**

DATE OF PREPARATION
4-18-2015

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Product name	**ClearView Mineral Magnet**
Revision date	4**-18-15**

SAFETY DATA SHEET

Product name	**ClearView Super Crystal Clarifier**
Revision date	**6-11-14**

Product ID: **Super Crystal Clarifier**

Chemical Name: Not Available
Synonyms: Not Available
Chemical Formula: Not Available
CAS Number: Not Available
Product Use: **Water Clarifier**

Supplier: **Oreq Corporation**
42306 Remington Avenue
Temecula, CA 92590
951-296-5076

Emergency Phone# **Chemtrec: 1-800-424-9300**

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Classification: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B

GHS SIGNAL WORD: **WARNING**

HAZARD PICTOGRAM:

Hazard Statement(s)
H318: Causes serious eye damage
H320: Causes eye irritation

Precautionary Statement(s):
Prevention
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P264 - Wash hands thoroughly after handling

Response
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists: Get medical advice/attention.
Storage Not Applicable
Disposal Not Applicable

Product name **ClearView Super Crystal Clarifier**

Revision date **6-11-14**

Substance/mixture: Mixture

Other means of Identification: Not available.

Product code: Clearview Super Crystal Clarifier

While some substances are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.

Description of necessary first aid measures

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10minutes. If irritation persists, get medical attention.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. the esophagus and dilute stomach contents by slowly giving one (1) to two (2) glasses of water or milk. Avoid giving alcohol or alcohol related products. In cases where the individual is semi-comatose, comatose or convulsing, DO NOT GIVE FLUIDS BY MOUTH. In case of intentional ingestion of the product seek medical assistance immediately; take individual to nearest medical facility.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : No known significant effects or critical hazards.

Eye contact : Causes eye irritation.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
irritation
watering
redness

Inhalation: No specific data.

Skin contact: No specific data

Ingestion: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds

Special protective actions for fire-fighters Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Personal precautions, protective equipment and emergency procedures

For non-emergency: No action shall be taken involving any personal risk or without suitable training.

Personnel Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Small spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general Occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Control parameters

Occupational exposure limits None

Appropriate engineering controls: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of gloves cannot be accurately estimated.

Body protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Physical state:	Liquid	**Vapor pressure:**	Not available
Color:	Amber	**Vapor density:**	Not available
Odor:	Slight	**Relative density:**	Not available
Odor Threshold:	Not available	**Dispersibility properties:**	Not available
pH	4 to 8		

Melting point:	Not available	**Solubility:**	Easily soluble in the following materials: cold water / hot water
Boiling point:	Not available		
Flash point:	Closed cup: >100°C (>212°F)	**Partition coefficient: n-octanol/water**	Not available
Evaporation rate:	Not available		
Flammability (solid, gas)	Not available	**Auto-ignition temperature:**	>200°C (>392°F)
Lower and upper explosive (flammable) limits	Not available	**Decomposition temperature:**	Not available
		Viscosity: Not available	**VOC:** Not available

Reactivity : No specific test data related to reactivity available for this product or its ingredients.
Chemical stability: The product is stable.
Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid: No specific data.
Incompatible materials: No specific data.
Hazardous decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Clearview Super Crystal Clarifier	LD50 Oral	Rat	>2000 mg/kg	-

Conclusion/Summary: This product is not expected to be toxic by inhalation.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Clearview Super Crystal Clarifier	Eyes- Mild irritant	Mammal- species unspecified	-	-	-
	Skin- Mild irritant	Mammal- species unspecified	-	-	-
	Respiratory- Mild irritant	Mammal- species unspecified	-	-	-

Conclusion/Summary

Skin: This product has been tested for cutaneous irritation on New Zealand White male rabbits according to OECD guideline 404. No effects (erythema or edema) were observed after 24 hours. This product is not irritating to skin. May cause skin irritation with susceptible persons.

Eyes: Testing conducted on rabbits showed minor transient irritation which cleared within days.

Respiratory: Slightly hazardous in case of inhalation. Effects will depend on concentration and length of time of exposure.

Sensitization Not available

Conclusion/Summary

Skin: This product is not expected to be sensitizing.
Respiratory: This product is not expected to be sensitizing.

Mutagenicity Not available.
Conclusion/Summary: Not mutagenic in Ames test. Not mutagenic in micronucleus test on mice.

Carcinogenicity This product has not been tested unless noted in summary results.

Reproductive toxicity Not available

Teratogenicity Not available

Conclusion/Summary: Not teratogenicity. NOEL = 175 mg/kg

Specific target organ toxicity
Single exposure - Not available
Repeated exposure- Not available

Aspiration hazard Not available

Information on the likely routes of exposure: Routes of entry anticipated: Dermal, Inhalation.
Routes of entry not anticipated: Oral.

Potential acute health effects
Eye contact: Causes eye irritation
Inhalation: No known significant effects or critical hazards.
Skin contact: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics
Eye contact : Adverse symptoms may include the following:
irritation
watering
redness
Inhalation: No specific data.
Skin contact: No specific data
Ingestion: No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure
Short term exposure
Potential immediate effects: Not available
Potential delayed effects: Not available
Long term exposure
Potential immediate effects: Not available
Potential delayed effects: Not available
Potential chronic health effects Not available
Conclusion/Summary : Chronic Toxicity:NOEL / Oral / rat 90-day =5000 mg/kg
Two year feeding study on rats and dogs did not reveal any adverse health effects.
Not mutagenetic in AMES Test.
Not mutgenetic in micronucleus test on mice.
Not teratogenic, NOEL = 175 mg/kg.
General: No known significant effects or critical hazards
Carcinogenicity: No known significant effects or critical hazards
Mutagenicity: No known significant effects or critical hazards

Teratogenicity: No known significant effects or critical hazards
Developmental effects: No known significant effects or critical hazards
Fertility effects: No known significant effects or critical hazards

Numerical measures of toxicity
Acute toxicity estimates Not available

Toxicity

Product/ingredient name	Result	Species	Exposure
Clearview Super Crystal Clarifier	Acute EC50 >10 mg/l Acute LC50 >10 mg/l	Daphnia Fish	48 hours 96 hours

Disposal methods:
The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

	DOT Classification	IMDG	IATA
UN number	Not regulated	Not regulated	Not regulated
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No	No	No
Additional information	-	-	The environmentally hazardous substance mark may appear if required by other transportation regulations.

Special precautions for user: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Potential impurities present in trace quantities are included in the regulatory listings of this section.
U.S. Federal regulations : **United States inventory (TSCA 8b)**: All components are listed or exempted.

SARA 302/304
Composition/information on ingredients
No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312
Classification : Immediate (acute) health hazard
Composition/information on ingredients
No products were found.

CERCLA: CERCLA: Hazardous substances.: No products were found.
FDA: This product is allowed under the following FDA (21 CFR) sections :176.170 Limitations: 1) As a pigment dispersant and/or retention aid prior to the sheet-forming operation in the manufacture of paper and paperboard, and used at a level not to exceed 10 pounds of active polymer per ton of finished paper and paperboard. 2) As a pigment dispersant in coatings at a level not to exceed 3.5 pounds of active polymer per ton of finished paper and paperboard. 3) For use only as a flocculant employed prior to the sheet forming operation in the manufacture of paper and paperboard, and used at a level not to exceed 10 mg/L (1o parts per million) of influent water

FIFRA This product is not a registered pesticide.

HMIS/NPCA Rating ... Health	1	Flammability	0	Reactivity	0
NFPA Ratings .....Health	1	Flammability	0	Reactivity	0

DATE OF PREPARATION
6-11-2015

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SAFETY DATA SHEET

Product name **ClearView Poly Power 30**

Revision date **4-29-15**

Section 1 Identification

Product ID: Poly Power 30
Synonyms: Polyquaternium 42; Polixetonium chloride; WSCP
Chemical Name: Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]
CAS Number: 31512-74-0
Product Use: Algaecide 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.

Product name **ClearView Poly Power 30**

Revision date **4-29-15**

Section 3 Composition / Information on ingredients

CHEMICAL NAME	CAS#	CONCENTRATION	RTECS%
Poly[oxyethylene(dimethylimonio)ethylene(dimethylimonio)ethylene dichloride]	31512-74-0	30%	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.

Product name **ClearView Poly Power 30**

Revision date **4-29-15**

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 sytems 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 soluable/dispersable, 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

Permissible Exposure Limits						
	OSHA		WISHA		ACGIH (TLV)	
CAS No.	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.

Product name **ClearView Poly Power 30**

Revision date **4-29-15**

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 [X] 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 [X]
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 [X]
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:

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(dimethylimino)ethylene dichloride)	NA	NA	NA	NA

Section 12 Ecological information

General Ecological Information: No data available.

Results of PBT and VPvB assessment: No information available.
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.

Product name **ClearView Poly Power 30**

Revision date **4-29-15**

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.

Product name **ClearView Poly Power 30**

Revision date **4-29-15**

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(dimethylimonio)ethylene(dimethylimonio)ethylene dichloride]	No	No	No

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

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
31512-74-0	Poly(oxyethylene(dimethylimino)ethylene(dimethylimino)ethylene dichloride)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
31512-74-0	Poly(oxyethylene(dimethylimino)ethylene(dimethylimino)ethylene dichloride)	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)

Product name **ClearView Poly Power 30**

Revision date **4-29-15**

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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Product name **ClearView Shimmer Shock**

Revision date **5-11-15**

Section 1 Identification

Product ID: **Shimmer Shock**

Chemical Name: Sodium dichloroisocyanurate dihydrate
Synonyms: Sodium dichlor;; Sodium dichloroisocyanurate dihydrate: Sodium Dichloro-S-Triazinetrione Dihydrate; Troclosene sodium
Chemical Formula: $NaCl_2(NCO)_3x2H_2O$
CAS Number: 51580-86-0
Product Use: Fast Acting for Super Chlorination to Control Bacteria & Algae

Supplier: **Oreq Corporation**
42306 Remington Avenue
Temecula, CA 92590
951-296-5076

Emergency Phone# **Chemtrec: 1-800-424-9300**

Section 2 Hazards identification

GHS CLASSIFICATION:
Acute Tox. 4, H302 Harmful if swallowed
Eye Irrit. 2, H319 Causes serious eye irritation
STOT SE 3, H335 May cause respiratory irritation
Aquatic Acute 1, H400 - Very toxic to aquatic life
Aquatic Chronic 1, H410 - Very toxic to aquatic life with long lasting effects

GHS SIGNAL WORD: **DANGER**

HAZARD PICTOGRAMS:

Hazard Statement(s)

H302 - Harmful if swallowed
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H410 - Very toxic to aquatic life with long lasting effects
EUH031 - Contact with acids liberates toxic gas

Precautionary Statement(s)

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P304 + P340 - IF INHALED: Remove person to fresh air and keep 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

NFPA Ratings (Scale 0-4) Health = 2, Fire = 0, Reactivity = 1.
Special Hazard Warning: OXIDIZER

Product name **ClearView Shimmer Shock**

Revision date **5-11-15**

Section 3 Composition / Information on ingredients

Components	Weight %	Index No.	EC No.	EU Classification
SODIUM DICHLOROISO CYANURATE, DIHYDRATE 51580-86-0	99-100	#613-030-01-7	220-767-7	Acute Tox. 4 H302 Eye Irrit. 2 H319 STOT SE 3 H335 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 EUH031 (In Accordance with CLP1272/2008) -------- R31 Xi; R36/37 Xn; R22 N; R50/53 (in accordance with DSD67/548/EEC)
SODIUM CHLORIDE 7647-14-5	0-1		231-593-8	None

Section 4 First - aid measures

Eye contact Holding the eyelids apart, flush eyes promptly with copious flowing water for at least 20 minutes. Get medical attention immediately.

Skin contact Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Get medical attention immediately.

Inhalation In case of inhalation, remove person to fresh air. Keep him quiet and warm. Apply artificial respiration if necessary and get medical attention immediately.

Ingestion If swallowed, wash mouth thoroughly with plenty of water. Get medical attention immediately.

NOTE: Never give an unconscious person anything to drink

Most important symptoms and effects, acute or delayed

- Ocular Severe irritation and/or burns can occur following eye exposure. Contact may cause impairment of vision and corneal damage.

- Dermal Dermal exposure can cause severe irritation and/or burns characterized by redness, swelling and scab formation. Prolonged skin exposure may cause permanent damage.

- Inhalation Irritating to the nose, mouth, throat and lungs. It may also cause burns to the respiratory tract with the production of lung edema that can result in shortness of breath, wheezing, choking, chest pain, and impairment of lung function. Inhalation of high concentrations can result in permanent lung damage from the corrosive action to the lung.

- Ingestion Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding and/or tissue ulceration. Ingestion causes severe damage to the gastrointestinal tract with the potential to cause perforation.

Notes to the physician No specific antidote.
Treat symptomatically and supportively.
In case of ingestion DO NOT induce vomiting.
Probable mucosal damage may contraindicate the use of gastric lavage.

Medical conditions aggravated by exposure Asthma, respiratory and cardiovascular disease.

Product name **ClearView Shimmer Shock**

Revision date **5-11-15**

Section 5 Fire - fighting measures

Suitable Extinguishing Media: Water

Extinguishing Media Not To Be Used: Do not use dry chemical extinguisher containing ammonia compounds.

Unusual Fire and Explosion Hazards: When heated to decomposition, may release poisonous and corrosive fumes of nitrogen trichloride, chlorine and CO.

Fire Fighting Procedure: Cool containers with water spray. Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) in positive pressure mode. On small fires, use water spray or fog. On large fires, use heavy deluge or fog streams. Flooding amounts of water may be required before extinguishment can be accomplished.

Section 6 Accidental release measures

Personal precautions For small spills in a well-ventilated areas, wear a NIOSH approved half-face or full face tight fitting respirator or a loose fitting powered air purifying respirator equipped with chlorine cartridges. Chemical goggles should be worn when using a half-face respirator. In addition to respiratory protection, wear coveralls, chemical resistant gloves, chemical resistant footwear; and chemical resistant headgear for overhead exposure. For clean-up of large spills, or small dry spills in confined areas, wear full-face respirator with chlorine cartridges or a positive pressure supplied air respirator. Additionally, body protection should be impervious clothing covering entire body to prevent personal contact with material. CAUTION - Protection concerns must also address the following: If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.

Methods for cleaning up Hazardous concentrations in air may be found in local spill area and immediately downwind. If spill material is still dry, do not put water directly on this product as a gas evolution may occur.

Environmental precautions

- Soil Do not contaminate spill material with any organic materials, ammonia, ammonium salts or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean dry container.

- Water This material is heavier than and soluble in water. Stop flow of material into water as soon as possible. Begin monitoring for available chlorine and pH immediately.

- Air Vapors may be suppressed by the use of water fog.

Section 7 Handling and storage

Handling Do not take internally. Avoid contact with skin, eyes, and clothing. Upon contact with skin or eyes, wash off with water.

Storage Store in a dry, cool, well-ventilated area. away from incompatible materials (see "materials to avoid"). Do not store at temperatures above 60°C/140°F. Product has an indefinite shelf-life limitation.

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Section 8 Exposure controls / personal protection

Exposure Limits:

COMPONENTS	ACGIH-TLV Data	OSHA (PEL) Data
SODIUM DICHLOROISO CYANURATE, DIHYDRATE 51580-86-0	Not determined	Not determined
SODIUM CHLORIDE 7647-14-5	Not determined	Not determined

Ventilation requirements Use local exhaust ventilation to minimize dust and chlorine levels where industrial use occurs. Otherwise, ensure good general ventilation.

Personal protective equipment:

- Respiratory protection When dusty conditions are encountered, wear a NIOSH/OSHA full-face respirator with chlorine cartridges for protection againts chlorine gas and dust/mist pre-filter.

- Hand protection Neoprene gloves (0.67 mm)

- Eye protection Use chemical safety glasses to avoid eye contact.
Where industrial use occurs, chemical goggles may be required.

- Skin and body protection Impervious body covering clothes, boots and neoprene apron.

Hygiene measures Do not eat, smoke or drink where material is handled, processed or stored. Wash hands thoroughly after handling and before eating or smoking. Safety shower and eye bath should be provided.

Section 9 Physical and chemical properties

Appearance White granules or tablet-form product
Odor Mild chlorine-like
Odor threshold Not determined
pH Not determined
Melting point/range Not applicable
Boiling point/range Not applicable
Flash point Not applicable
Evaporation rate (ether=1) Not applicable under standard conditions
Flammability (solid, gas) Not determined
Flammable/Explosion limits Not determined
Vapor pressure Not applicable under standard conditions
Vapor density Not applicable under standard conditions
Relative density tap density= 0.974 g/mL
pour density= 1.083 g/mL
Solubility:
- Solubility in water 24-25 g/100g
Partition coefficient (n-octanol/water) LogP - -0.0056 (estimated)
Auto-ignition temperature Not self-ignitable
Decomposition temperature Begins to lose 1 mole water at approximately 50°C; second mole water at 95°C; Decomposes at 240-250°C
Viscosity Not applicable
Explosive properties Not determined
Oxidising properties Not oxidizing
Particle size Non- inhalable

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Section 10 Stability and reactivity

Reactivity	Begins to lose one mole of water at approximately 50°C
Stability	Stable under normal conditions
Possibility of hazardous reactions	If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.
Conditions to avoid	Heating above decomposition temperature Do not package in paper or cardboard.
Materials to avoid	Organic materials, reducing agents, nitrogen containing materials, other oxidizers, acids, bases, oils, grease, sawdust, dry fire extinguishers containing monoammonium compounds.
Hazardous decomposition products	Nitrogen trichloride, chlorine, carbon monoxide

Section 11 Toxicological information

Acute toxicity:

- Rat oral LD50	1671 mg/kg
- Rat dermal LD50	>5000 mg/kg
- Dermal irritation (rabbit)	Severe irritant
- Eye irritation (rabbit)	Severe irritant
Dermal sensitization	Not a sensitizer.
Immediately Dangerous to Life or Health (IDLH)	No level has been established for the components or the product itself.
Effects of overexposure : Chronic toxicity	Chronic inhalation exposure may cause impairment of lung function and permanent lung damage.
Mutagenicity	Not mutagenic in five Salmonella strains with or without metabolic activation.
Carcinogenicity	Not classified by IARC, OSHA, EPA. Not included in NTP 12th Report on Carcinogens
Reproductive toxicity	Sodium dichloroisocyanuric acid when given orally to pregnant mice from day 6 to day 15 of gestation, did not induce any significant teratogenic effects.

Section 12 Ecological information

Aquatic toxicity :

- 96 Hour-LC50, Fish	0.22 mg/l (rainbow trout) 0.28 mg/l (bluegill sunfish)
- 48 hour-LC50, Daphnia magna	0.2 mg/l

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Section 12 Ecological information (continued)

Avian toxicity:

- Oral LD50, Bobwhite quail	730 mg/kg
- Oral LD50, Mallard duck	3300 mg/kg
- Dietary LC50, Mallard duck	>10,000 ppm
- Dietary LC50, Bobwhite quail	>10,000 ppm

Persistence and degradability Not readily biodegradable. Rapidly hydrolyses in water into Cyanuric acid

Bioaccumulative potential Not expected to bioaccumulate

Mobility in soil The degradation product, Cyanuric acid, is weakly adsorbed to and highly mobile in all soils

Section 13 Disposal considerations

Waste disposal Care must be taken to prevent environmental contamination from the use of this material. Dispose of in a safe manner in accordance with local/national regulations.

Disposal of Packaging Empty containers should be disposed of in accordance with all applicable laws and regulations.

Section 14 Transport information

DOT

Non-Bulk Packaging: Not Regulated under DOT unless transported by Vessel
Bulk Packaging or Shipment by Vessel: Regulated
UN No. UN3077
PROPER SHIPPING NAME: Environmentally Hazardous Substance, Solid, n.o.s. (Sodium dichloroisocyanurate dihydrate)
Class: 9 - Miscellaneous Hazardous Material
Label: 9
Marking: Marine Pollutant
Packing Group: III

Note: Certain shipping modes or package sizes may have exceptions from the transport regulations and may be classified as Consumer Commodity and Limited Quantity. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

IMDG

UN No. 3077
Proper shipping name: Environmentally hazardous substance, solid, n.o.s (Sodium Dichloroisocyanurate,dihydrate)
Class: 9 - Miscellaneous Dangerous Substances and Articles
Label: 9
Mark: MARINE POLLUTANT
Packing Group: III

ADR/RID

UN No. 3077
Proper shipping name: Environmentally hazardous substance, solid, n.o.s (Sodium Dichloroisocyanurate,dihydrate)
Class: 9 - Miscellaneous Dangerous Substances and Articles
Classification Code: M7
Hazard identification No: 90
Packing group: III
Marking: Environmentally hazardous substance

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Section 14 Transport information (Continued)

ICAO/IATA	UN No. 3077 Proper shipping name: Environmentally hazardous substance, solid, n.o.s (Sodium Dichloroisocyanurate,dihydrate) Class: 9 Hazard label(s): Miscellaneous Packing group: III Marking: Environmentally hazardous substance

Section 15 Regulatory information

EU	Reported in EINECS
- Indication of danger	Harmful, symbol required (Xn) Dangerous for the environment, symbol required (N)
- R Phrases	R 22: Harmful if swallowed. R 31: Contact with acids liberates toxic gas. Xi; R 36/37: Irritating to eyes and respiratory system. R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- S Phrases	S 8: Keep container dry. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 41 :In case of fire and/or explosion do not breathe fumes. S60: This material and its container must be disposed of as hazardous waste. S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.
USA	All the components of this substance are listed on or are exempt from the inventory
OSHA REGULATORY STATUS:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
FIFRA REGULATIONS:	Registered pesticide under 40 CFR 152.10, Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).
Australia	Listed in AICS
China	
- China inventory	Listed
Japan	ENCS no. (5)-1043 ISHL no. (5)-1043
New Zealand Inventory	Listed in NZIoC
Philippines	Listed in PICCS

Section 16 Other information

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