



**Product name** Clear Spa<sup>104</sup> Spa Solutions Chlorinating Granules**Revision date** 5-15-15**Section 1 Identification**

**Product ID:** Chlorinating Granules

**Chemical Name:** Sodium dichloroisocyanurate dehydrate

**Synonyms:** Sodium dichlor;; Sodium dichloroisocyanurate dihydrate;  
Sodium Dichloro-S-Triazinetrione Dihydrate; Troclosene sodium

**Chemical Formula:** NaCl<sub>2</sub>(NCO)<sub>3</sub>x2H<sub>2</sub>O

**CAS Number:** 51580-86-0

**Product Use:** Disinfectant, sanitizer, algacide for pool/spas

**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:** WARNING

**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



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### 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 against 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

#### DATE OF PREPARATION

5-15-2015

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.



**Product name** Clear Spa<sup>104</sup> Spa Solutions Metal Guard**Revision date** 5-16-15**Section 1 Identification****Product ID:** Metal Guard**Chemical Name:** (1-Hydroxyethylidene)diphosphonic acid**Synonyms:** Etidronic Acid; 1-Hydroxyethylidene-1,1-diphosphonic acid; HEDP**Chemical Formula:** C<sub>2</sub>H<sub>8</sub>O<sub>7</sub>P<sub>2</sub>**CAS Number:** 2809-21-4**Product Use:** Surface and Equipment Protectant**Supplier:** Oreq Corporation  
42306 Remington Avenue  
Temecula, CA 92590  
951-296-5076**Emergency Phone#** Chemtrec: 1-800-424-9300**Section 2 Hazards identification****EMERGENCY OVERVIEW  
DANGER****Hazard Statement(s)**Corrosive to metals (Category 1)  
Serious eye damage (Category 1)H290: May be corrosive to metals.  
H303: May be harmful if swallowed.  
H318: Causes serious eye damage.  
H410: Very toxic to aquatic life with long lasting effects.**Precautionary Statement(s)**P273: Avoid release to the environment.  
P280: Wear protective gloves/eye protection/face protection.  
P234: Keep only in original container.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTER or doctor/physician.  
P406: Store in corrosive resistant stainless steel container with a resistant inner liner.  
P501: Dispose of contents/container to an approved waste disposal plant.**HMIS CLASSIFICATION**Health Hazard 2  
Flammability 0  
Physical Hazards 0**NFPA RATING**Health Hazard 2  
Fire 0  
Reactivity Hazard 0

**Product name** Clear Spa<sup>104</sup> Spa Solutions Metal Guard**Revision date** 5-16-15**Section 2 Hazards identification (Continued)****Potential Health Effects**

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.  
**Skin:** May be harmful if absorbed through skin. May cause skin irritation.  
**Eyes:** May cause eye irritation.  
**Ingestion:** May be harmful if swallowed.

**Section 3 Composition / Information on ingredients**

COMPONENT	CAS#	PERCENT
(1-Hydroxyethylidene)diphosphonic acid	2809-21-4	7%-14%

**Section 4 First - aid measures**

**General Advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin Contact:** Wash off with soap and plenty of water. Consult a physician.

**Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Section 5 Fire - fighting measures****Extinguishing Media**

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special hazards arising from the substance or mixture:** Carbon oxides, Oxides of phosphorus.

**Advice for Firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Section 6 Accidental release measures**

**Personal Precautions:** Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**Product name** Clear Spa<sup>104</sup> Spa Solutions Metal Guard

**Revision date** 5-16-15

### Section 7 Handling and storage

**Precautions for Safe Handling:** Avoid inhalation of vapor or mist. Normal measures for preventive fire protection.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store at room temperature.

### Section 8 Exposure controls / personal protection

#### Control Parameters

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

#### Exposure Controls

**Appropriate Engineering Controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal Protective Equipment

##### **Eye/Face Protection:**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### **Skin Protection:**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### **Body Protection:**

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Respiratory Protection:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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).

**Control of Environmental Exposure:** Do not let product enter drains.

##### **Hygiene Measures:**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Section 9 Physical and chemical properties



**Product name** Clear Spa<sup>104</sup> Spa Solutions Metal Guard**Revision date** 5-16-15**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 or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

<b>Reproductive Toxicity:</b>	Not Available
<b>Specific target organ toxicity - single exposure:</b>	Not Available
<b>Specific target organ toxicity - repeated exposure:</b>	Not Available
<b>Aspiration Hazard:</b>	Not Available

**Potential Health Effects**

<b>Inhalation:</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Skin:</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes:</b>	May cause eye irritation.

**Signs and Symptoms of Exposure:**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Section 12 Ecological information****Toxicity**

- Toxicity to fish: mortality – *Salmo gairdneri* – 217 mg/l – 96h
- Toxicity to daphnia and other aquatic invertebrates: Immobilization EC50 – *Daphnia magna* (water flea) – 572 mg/l – 48h
- Toxicity to Algae: Growth inhibition – SELENASTRUM – 42 mg/l – 14 d

**Persistence and Degradability:** Not Available**Bioaccumulative Potential:** Not Available**Mobility in Soil:** Not Available**Results of PBT and vPvB Assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.**Other Adverse Effects:** And environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.**Section 13 Disposal considerations****Waste Treatment Methods****Product:** Contact a licensed professional waste disposal service to dispose of this material. Offer surplus and



**Product name** Clear Spa<sup>104</sup> Spa Solutions Metal Guard

**Revision date** 5-16-15

### Section 15 Regulatory information

**OSHA Hazards:** Irritant

**DSL Status:** All components of this product are on the Canadian DSL list.

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

**SARA 313 Components: 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 III, Section 313.

**SARA 311/312 Hazards: Acute Health Hazard**

**Massachusetts Right To Know Components:** No components are subject to the Massachusetts Right to Know Act.

<b>Pennsylvania Right To Know Components:</b>	CAS-No.	Revision Date
Etidronic acid	2809-21-4	

<b>New Jersey Right To Know Components:</b>	CAS-No.	Revision Date
Etidronic acid	2809-21-4	

**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.

### Section 16 Other information

#### DATE OF PREPARATION

5-16-15

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**Product name** Clear Spa<sup>104</sup> Spa Solutions Crystal Brite

**Revision date** 6-11-15

**Product ID:** Crystal Brite

**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** Clear Spa<sup>104</sup> Spa Solutions Crystal Brite

**Revision date** 6-11-15

**Substance/mixture:** Mixture  
**Other means of Identification:** Not available.

**Product code:** Clear Spa 104 Spa Solutions Crystal Brite

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 10 minutes. 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.

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**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.

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**Revision date** 6-11-15

**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.





**Product name** Clear Spa<sup>104</sup> Spa Solutions Crystal Brite

**Revision date** 6-11-15

**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 mutagenic in AMES Test.  
Not mutagenic 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





# SAFETY DATA SHEET

**Product name** Clear Spa<sup>104</sup> Spa Solutions Crystal Brite

**Revision date** 6-11-15

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 (10 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**

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.



**Product name** Clear Spa<sup>104</sup> Spa Solutions No Foam**Revision date** 5-16-15**Section 1 Identification****Product ID:** No Foam  
**Chemical Name:** Polydimethylsiloxane  
**Synonyms:** Silicone Emulsion  
**Chemical Formula:** Not Available  
**CAS Number:** 63148-18-5  
**Product Use:** Eliminates Foam and Sudsing**Supplier:** Oreq Corporation  
42306 Remington Avenue  
Temecula, CA 92590  
951-296-5076**Emergency Phone#** Chemtrec: 1-800-424-9300**Section 2 Hazards identification****EMERGENCY OVERVIEW****OSHA Regulatory Status:** This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122). Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).**Health:** 0  
**Flammability:** 0  
**Reactivity:** 0  
**Special:** 0  
0 = minimal 1= slight 2=moderate 3= serious 4= severe**Route(s) of Entry****Inhalation:** No inhalation hazard identified from data available.  
**Skin Contact:** May cause irritation and reddening; rinse skin with water.  
**Ingestion:** No adverse effect expected.  
**Eye Contact:** May cause irritation or reddening.**Target Organs:** None known**Effects of Overexposure:** Contact with the eyes may cause irritation. Ingestion will cause mouth,throat and gastrointestinal irritation. Inhalation of harmful levels of vapors is unlikely due to the relatively low vapor pressure and the relatively low concentrations of ingredients.**Acute Effects of Overexposure:** None known.  
**Chronic:** None known.  
**Medical Conditions Generally Aggravated by Long-Term Exposure:** None expected.  
**Chronic Effects:** None known**Carcinogenicity****NTP:** None known  
**IARC Monographs:** None known  
**OSHA Regulations:** None known  
**ACGIH:** None known

**Product name** Clear Spa<sup>104</sup> Spa Solutions No Foam**Revision date** 5-16-15**Section 3 Composition / Information on ingredients**

Component	CAS#	Percent
Polydimethylsiloxane	63148-18-5	2%

**Section 4 First - aid measures****Eye Contact:** Flush eyes with large amounts of water for 15 minutes. If irritation persists, get medical attention.**Skin Contact:** Wash affected area thoroughly with soap and water. Remove contaminated clothing, rings, etc.**Ingestion:** Give several glasses of water to dilute. Do not induce vomiting.**Inhalation:** None required.**Section 5 Fire - fighting measures****Unusual Fire Fighting Procedures:** None required; non-flammable product.**Flash Point:** None detected.**Flash Point Method:** Pensky Martens**Burning Rate:** Does not burn.**Auto ignition Temperature:** Not available.**Flammable Limits in Air (% by volume):** Not applicable.

LEL: Not applicable.

UEL: Not applicable.

**Flammability Classification:** Not flammable.**Unusual Fire or Explosion Hazards:** Closed containers may rupture or explode due to steam pressure build-up when exposed to extreme heat. Water may be used to cool closed containers.**Unusual Fire Fighting Procedures:** None required.**Section 6 Accidental release measures****Spill/Leak Procedures:** Recover usable material by convenient method; residual may be removed by wipe or wet mop.**Small Spills:** Small spills should be absorbed with a suitable inert material (sand, earth, clay, etc.). Remove the absorbed material and place in an appropriate chemical waste container for disposal.**Large Spills:** For large spills, dike and pump into suitable containers. Clean up residual water.**Containment:** For large spills, dike far ahead of liquid spill for later disposal.**Regulatory Requirements:** Follow applicable Federal, State and Local regulations.**Section 7 Handling and storage****Handling Precautions:** Wear impermeable gloves and other protective clothing to avoid prolonged or repeated skin contact. When handling, wear eye protection.**Storage Requirements:** Keep containers tightly closed when not in use.

**Product name** Clear Spa<sup>104</sup> Spa Solutions No Foam

**Revision date** 5-16-15

### Section 8 Exposure controls / personal protection

**Control Parameters:** No Occupational Exposure Limits (OELs) have been established for this product or its chemical components.

#### Engineering Controls

**Ventilation:** Provide general or local exhaust ventilation systems.

#### Administrative Controls

**Respiratory Protection:** Respirator not needed.

#### Protective Clothing/ Equipment:

Where skin contact may occur, chemical-impervious gloves should be worn. Use chemical goggles or full face shield when the danger of splashing exists. Rubber apron or similar protective clothing to prevent contact with skin or clothes.

**Work and Hygienic Practices:** Wash or rinse hands before touching eyes or contact lenses, and before eating.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Avoid contact with skin, eyes and clothing. Do not take internally. Clean up spills immediately. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

### Section 9 Physical and chemical properties

<b>Appearance and odor:</b>	Thick white liquid with very little odor.
<b>Boiling Point (760 mm Hg):</b>	212°F (at 760 mm Hg)
<b>Freezing Point:</b>	32°F
<b>Specific Gravity (water =1):</b>	0.99
<b>Percent Organic Volatiles by Volume:</b>	0
<b>Evaporation Rate (butyl acetate =1):</b>	<1
<b>Solubility in Water (% by wt):</b>	Miscible
<b>Vapor Pressure (at 20°C):</b>	Not Determined
<b>pH:</b>	7.0 – 8.0

### Section 10 Stability and reactivity

<b>Stability:</b>	Stable
<b>Polymerization:</b>	Will not occur.
<b>Chemical Incompatibilities:</b>	None.
<b>Conditions to Avoid:</b>	Heat, sparks, open flame and other ignition sources.

**Hazardous decomposition products:** Thermal decomposition may produce carbon monoxide, carbon dioxide and oxides of silicon.

**Product name** Clear Spa<sup>104</sup> Spa Solutions No Foam

**Revision date** 5-16-15

### Section 11 Toxicological information

**Eye Effects:** May cause irritation and reddening. Immediately rinse eyes with large quantities of water; continue 10-15% minutes or until the material has been removed; be sure to remove contact lenses, if present and to lift upper and lower lids during rinsing. Get medical attention if irritation persists.

**Skin Effects:** May cause irritation; rinse skin with water, rinse shoes and launder clothing before use. Reversible reddening may occur in some dermal-sensitive users, thoroughly rinse area and get medical attention.

**Acute Inhalation Effects:** Exposures to concentrate-mist may cause mild irritation of nasal passages or throat; remove to fresh air. Get medical attention if irritation persists.

**Acute Oral Effects:** May be irritating to mouth, throat and stomach. May cause gastric tract disorder and/or damage in large quantities. Give several glasses of water to dilute; do not induce vomiting. If stomach upset occurs, consult physician.

**Chronic Effects:** None known

**Carcinogenicity:** Neither product nor its ingredients are listed by IARC, NTD or OSHA

**Mutagenicity:** Not mutagenic

**Teratogenicity:** Not Teratogenic

### Section 12 Ecological information

**Ecotoxicity:** Not determined

**Environmental Fate:** Decomposes to carbon, oxygen, nitrogen and water.

**Environmental Degradation:** Biodegradable

**Soil Absorption/Mobility:** Not determined

### Section 13 Disposal considerations

**Waste disposal method:** Sanitary landfill or incinerate in approved facilities in accordance with local, state and federal regulations.

**Disposal Regulatory Requirements:** Shipments of waste material may be classified as hazardous and subject to manifesting requirements through applicable regulatory agency.

**Container Cleaning and Disposal:** Containers should be cleaned of residual product before disposal, and disposed of in accordance with all applicable laws and regulations.

### Section 14 Transport information

**DOT:** Not Dangerous Goods

**TDG:** Not Dangerous Goods

**MEX:** Not Dangerous Goods

**IMDG:** Not Dangerous Goods

**IATA:** Not Dangerous Goods

**Product name** Clear Spa<sup>104</sup> Spa Solutions No Foam

**Revision date** 5-16-15

### Section 15 Regulatory information

#### EPA Regulations

**RCRA Hazardous Waste Number and RCRA Hazardous Waste Classification:** Not applicable.

**CERCLA Hazardous Substance and CERCLA Reportable Quantity:** Not applicable.

#### **SARA Toxic Chemical and SARA EHS:**

Contains no components at a level that could require reporting under "SARA" Section 313.

#### **OSHA Regulations:**

Must comply with OSHA standard 29 CFR 1910.1200 (employee right to know).

### Section 16 Other information

#### **DATE OF PREPARATION**

**5-16-15**

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