

**Product name** Clear Spa<sup>104</sup> Spa Solutions Spa Seltzer

**Revision date** 2-10-16

## Section 1 Identification

**Product ID:** Spa Seltzer

**Chemical Name:** Sodium dichloroisocyanurate

**Synonyms:** (Sodium dichloro-s-triazinetrione)

**Chemical Formula:** Not Available

**CAS Number:** 2893-78-9

**Product Use:** Sanitizer, Algacide for Spa & Hot Tub

**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 Toxicity (Inhalation): Category 3 \*

Serious Eye Damage / Eye Irritation: Category 1

Specific Target Organ Toxicity: Category 3

Single Exposure

Hazardous to the Aquatic Environment

Acute Hazard: Category 1

Chronic Hazard: Category 1

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

### GHS label element



**Signal Word**

**Danger**

### Hazard statement(s)

H331- Toxic if inhaled

H318- Causes serious eye damage

H335- May cause respiratory irritation

H410- Very toxic to aquatic life with long lasting effects

\* See Section 11: TOXICOLOGICAL INFORMATION

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- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P264- Wash face, hands and any exposed skin thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product  
P280 - Wear eye protection / face protection  
P271 - Use only outdoors or in a well-ventilated area  
P273 - Avoid release to the environment

**Response-**

- P330 - Rinse mouth  
P391 – Collect spillage  
P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P312: Immediately call a POISON CENTER/doctor/ physician if you feel unwell

**Storage-**

- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up

**Disposal-**

- P501 - Dispose of contents/container in accordance with national and international regulations

**Section 3 Composition / Information on ingredients**

Substance / Mixture:	Mixture	
<u>Chemical Identify</u>	<u>CAS Number</u>	<u>Concentration</u>
Sodium dichloroisocyanurate	2893-78-9	26-36%
Other ingredients	Confidential	64-74%

Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance.

- Nothing

**Section 4 First - aid measures**

- Inhalation:** Move person to fresh air. If person is not breathing, give artificial respiration, preferable by mouth-to-mouth, if possible. Get medical attention for further treatment advice.
- Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Get medical attention for treatment advice.
- Eye Contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention for further treatment advice.
- Ingestion:** Get medical advice IMMEDIATELY. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so.
- Note to Physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

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**Section 5 Fire - fighting measures**

**Extinguishing Media:** Large amounts of water. Do not use dry chemicals, carbon dioxide or halogenated extinguishing agents.

**Specific Hazards Arising from the Chemical:** Chlorine, Nitrogen trichloride, Hydrogen chloride, Nitrogen oxide, and carbon monoxide.

**Protective Equipment and Precautions for Fire-fighters:**  
Wear self-contained breathing apparatus in pressure-demand mode and full protective gear.

**Section 6 Accidental release measures**

**Personal Precautions:** Avoid inhalation and contact with eyes and skin. Use personal protective equipment.

**Environmental Precautions:** Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, and oceans. Do not flush into surface water or sanitary sewer systems.

**Methods and Material for: Containment / Cleaning Up:** Sweep up spills or leaks with dry broom into suitable container for disposal.

**Section 7 Handling and storage**

**Handling:** Wear proper protective equipment in order to avoid contact with skin or eyes. Remove and wash contaminated clothing before re-use. Do not breathe vapors/dust. Do not eat, drink or smoke when using this product. Use only in area provided with appropriate exhaust ventilation.

**Storage:** Keep product in tightly closed container when not in use. Store in a cool, dry, well-ventilated area away from heat or open flame.  
Do not store with water, oxidizing agents, alkalies, grease, reducing agents and acids.  
Keep out of reach of children.

**Incompatible Products:** Strong bases. Strong oxidizing agents.

**Section 8 Exposure controls / personal protection**

**Engineering Measures:** Showers, eyewash stations, and ventilation systems

**Exposure Limits:** (DUST)  
Limits for Air contaminants (OSHA)  
Particulates not otherwise regulated  
Total dust TWA 10 mg/m<sup>3</sup>

Limits for Air contaminants (OSHA)  
Particulates not otherwise regulated  
Respirable fraction TWA 3 mg/m<sup>3</sup>

(As chlorine gas concentration)  
0.5ppm, 1.5mg/m<sup>3</sup> (2005 year JAPAN)  
TLV-TWA (8hours) : 0.5ppm(ACGIH.1993-1994)  
TLV-STE L (15minintes) : 1ppm(ACGIH 1993-1994)

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**Section 8 Exposure controls / personal protection (Continued)**

**Personal Protective Equipment**

**Respirator:** A NIOSH approved respirator with N95 (dust, fume, mist) cartridges may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure. The added protection of a full face-piece respirator is required when visible dusty conditions are encountered and eye irritation may occur. Acid gas cartridges with N95 filters are required when fumes or vapor may be generated. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

**Gloves:** Wear appropriate chemical resistant gloves.

**Eye Protection:** Wear chemical safety goggles.

**Skin Protection:** Wear impervious, long-sleeved clothing to minimize skin contact.

**Protective Material Types:** Butyl rubber, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride(PVC), Tyvek®

**Hygiene Measures:** When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing.

**Section 9 Physical and chemical properties**

**Appearance / Color** Solid / White.

**Odor:** Chlorine Odor

**Molecular Weight (Sodium dichloroisocyanurate):** 219.95

**pH:** 4.5-5.6 (1% solution)

**Melting Point:** Not applicable

**Boiling Point:** Not applicable

**Flash Point:** Not applicable

**Ignition Point:** Not applicable

**Flammability (Solid, Gas):** Not available

**Explosive Limit:** Not available

**Vapour Pressure:** Not available

**Vapour Density:** Not available

**Evaporation Rate:** Not available

**Gravity (Sodium dichloroisocyanurate):** 2.0 (Absolute Specific Gravity)

**Water Solubility (Sodium dichloroisocyanurate):** 25g/100g (25 degree C)

**Partition Coefficient n-octanol / water:** Not available

**Decomposition Temperature (Sodium dichloroisocyanurate)** 240 - 250 degree C

**Section 10 Stability and reactivity**

**Stability:** Stable under recommended storage conditions.  
**(Sodium dichloroisocyanurate):** Converted to Hypochlorous acid and Isocyanuric acid when dissolve product in water.

**Condition to Avoid:** Protect from moisture. Incompatible products.  
**(Sodium dichloroisocyanurate)**

**Incompatible Products:** Acid, Alkali, Other chlorine agents, oils/fats and flammable materials  
**(Sodium dichloroisocyanurate)**

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**Section 10 Stability and reactivity (Continued)**

**Hazardous Decomposition Products:**  
(Sodium dichloroisocyanurate)

Chlorine, Nitrogen trichloride, Hydrogen chloride, Nitrogenoxide, carbon monoxide, carbon dioxide, and nitrogen

**Hazardous Reactions:**  
(Sodium dichloroisocyanurate)

None under normal processing

**Section 11 Toxicological information**

**Acute Toxicity (oral) : LD50 3,129mg/kg**

**(dermal) : LD50 >2000mg/kg**

**(inhalation) : LC50 0.53 - 2.04mg/L**

This material in the form as sold is not expected to produce respiratory effects. Particles of respirable size are generally not encountered. The respirable fraction is typically less than 0.1% by weight for the granular and extra granular grades. If ground or otherwise in a powdered form, effects similar to a corrosive substance may occur. Exposure to the solid product or to free chlorine evolving from the product may cause irritation, redness of upper and lower airways, coughing, laryngeospasm and edema, shortness of breath, bronchial constriction, and possible pulmonary edema. The pulmonary edema may develop several hours after a severe acute exposure.

**Skin Corrosion / Irritation**

: From one to 72 hours after patch removal, all three treated sites exhibited well-defined erythema and very slight edema. Although the severity of irritation gradually decreased thereafter, desquamation was noted for all three animals from Day 10 - Day 14 and dermal irritation persisted at all sites through Day 14 (study termination). PDII at 72 hours was 3.0 (moderately irritating)

**Serious Eye Damage / Eye Irritation**

: Within 24 hours after test substance instillation, all three treated eyes exhibited corneal opacity, iritis and conjunctivitis. Although the overall incidence and severity of irritation decreased gradually with time, pannus was noted for one animal beginning on Day 14, and, irritation persisted in two eyes through Day 21.

**Respiratory Sensitization:**  
**Skin Sensation:**

Not available  
Not available

**Germ Cell Mutagenicity:**

AMES Test; Negative (Test substance: monosodium cyanurate) (1)  
Mouse Lymphoma Assay; Negative (Test substance: monosodium cyanurate) (1)

**Carcinogenicity:**

The ingredients of this product are not classified as a carcinogen by NTP, IARC or OSHA.

**Reproductive Toxicity:**

Not available

**Specific Target Organ Toxicity :**

Single Exposure

Breathing dust or fumes is expected to be a primary route of exposure. May produce throat and respiratory tract irritation.

Repeated Exposure

Not Available

**Aspiration Hazard**  
**Other Information**

Not Available  
Not Available

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### Section 12 Ecological information

**Ecotoxicity:** LC50 0.38mg/l (ORYZIAS LATIPES, 96hour)  
(Sodium dichloroisocyanurate)

**Persistence and degradability:** (As Isocyanuric Acid)  
Decomposable in the nature.  
0% by BOD after 14 days, 7.8% by TOC after 14 days,  
5.3% by HPLC after 14 days. (3)  
100% in aerobic activated sludge after 8 hours,  
100% in anaerobic sludge after 72 hours,  
52-100% in some soils and sludges after 9-23 days. (4)

**Bioaccumulation:** Not bioaccumulate as Isocyanuric acid (5)

**Mobility in soil:** Not available

**Other adverse effect:** Not available

### Section 13 Disposal considerations

**Waste Disposal Methods:** 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.

Do not dispose of wastes into garbage can or garbage dump, which may cause fire.

### Section 14 Transport information

**Transportation Methods:** Keep product dry in tightly closed container and load securely in order to avoid damages. Avoid moisture, heat and direct sunlight.  
Keep away from water, oxidizing agents, alcalies, grease, reducing agents and acids.

#### US DOT

Proper shipping Name: TOXIC SOLID, ORGANIC, N.O.S (Sodium dichloroisocyanurate)  
Hazard Class: 6.1  
UN No.: 2811  
Packing Group: III

#### IMDG/IMO

Proper shipping Name: TOXIC SOLID, ORGANIC, N.O.S (Sodium dichloroisocyanurate)  
Hazard Class: 6.1  
UN No.: 2811  
Packing Group: III  
EmS No.: F-A, S-A  
Marpol: Yes

#### ICAO/IATA

Proper shipping Name: TOXIC SOLID, ORGANIC, N.O.S (Sodium dichloroisocyanurate)  
Hazard Class: 6.1  
UN No.: 2811  
Packing Group: III  
ERG Code: 6L  
Additional Information: Marine Pollutant

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### Section 15 Regulatory information

<b>Toxic Substances Control Act (TSCA):</b>	All components are listed on the TSCA inventory.
<b>Clean Water Act (CWA):</b>	None of the ingredients is listed.
<b>OSHA: Hazardous by definition of Hazard Communication Standard ( 29 CFR 1910.1200):</b>	CAS no. 2893-78-9
<b>SARA Section 302 (RQ):</b>	None of the ingredients is listed.
<b>SARA 311/312:</b>	Hazard category Acute Health Hazards
<b>SARA Section 313:</b>	None of the ingredients is listed.
<b>HAPS Hazardous Air Pollutants:</b>	None of the ingredients is listed.
<b>Volatile organic compounds (VOC):</b>	Value 0 pound / gallon
<b>HMIS Classification:</b>	Health 3 Flammability 1 Physical Hazard 1 Personal Protection F
<b>NFPA Rating:</b>	Health 3 Flammability 1 Physical Hazard 1
<b>CARCINOGENICITY IARC:</b>	None of the ingredients is listed in group 1, 2A or 2B.
<b>New Jersey Worker and Community Right to Know Act:</b>	Following ingredients are listed: CAS no. 2893-78-9
<b>California Proposition 65:</b>	None of the ingredients is listed.
<b>Pennsylvania HAZARDOUS SUBSTANCE LIST:</b>	Following ingredients are listed: CAS no. 2893-78-9
<b>FIFRA regulations:</b>	Registered pesticide under 40 CFR 152.10, Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), EPA Reg.
<b>FIFRA labeling requirements:</b>	<p>This chemical is a pesticide product registered by the United States Environmental Protection Agency (EPA) 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 (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.</p> <ul style="list-style-type: none"><li>- FIFRA Signal Word - DANGER</li><li>- Corrosive</li><li>- Causes irreversible eye damage</li><li>- Wear protective eyewear such as safety glasses, face shield</li><li>- Harmful if swallowed, inhaled or absorbed through the skin</li><li>- Do not get in eyes, on skin or on clothing</li><li>- Avoid contact with skin.</li><li>- Wash thoroughly with soap and water after handling and eating, drinking, chewing gum, using tobacco, or using the</li><li>- Remove and wash contaminated clothing before reuse.</li><li>- This pesticide is toxic to fish and aquatic organisms</li><li>- Strong oxidizing agent</li><li>- Mix only with water</li><li>- Use only clean, dry utensils</li><li>- DO NOT add this product to any dispensing device containing remnants of any other product</li><li>- Such use may cause a violent reaction leading to fire or explosion</li><li>- Contamination with moisture, organic material, or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible generation of fire and explosion</li><li>- In case of contamination or decomposition, do not reseal</li><li>- If possible isolate each container in open air or well-</li><li>- Flood with large volumes of water if necessary.</li><li>- Do not contaminate water, food or feed by storage or disposal.</li></ul>

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### Section 16 Other information

Excerpt(1) [A Review of Toxicology Studies on Cyanurate and it's Chlorinated Derivatives]  
Environmental Health Perspectives Vol. 69. 278 (1986)  
(2)[Biodegradation of Cyanuric Acid] Applied Microbiology.28(6)1004(1974)  
(3)OECD SIDS Initial Assessment Report for 9th SIAM (France, June 29-July1, 1999)  
(4)Ad Hoc Committee, EPA report 201-14660B (2003)  
(5)The Journal of Hygienic, Chemistry 24, (1) 49~59(1978)

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