


# CLEAN & CLEAR

1. IDENTIFICATION	
<b>Product name</b>	: <b>CLEAN &amp; CLEAR</b>
<b>Product code</b>	: <b>29-92350</b>
<b>Supplier</b>	: Beachcomber Plus 13245 Comber Way Surrey, BC, V3W 5V8 Canada
<b>Other means of identification</b>	: Not available.
<b>Manufacturer</b>	: Manufactured for: JRS Distributors Inc. 13245 Comber Way Surrey, BC, V3W 5V8 Canada
<b>Identified uses</b>	: Consumer products: Pool & Spa water treatment product This MSDS is provided as information only. This product is not WHMIS regulated. This product is regulated under CCCR regulation.
<b>Uses advised against</b>	: Only use this product as directed. Read label before using.
<b>Date of issue (YYYY-MM-DD)</b>	: 2018-03-02
<b>In case of emergency : Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)</b>	

2. HAZARDS IDENTIFICATION	
Information in this section only concerns the product as supplied. Contact your account manager to get more information on diluted form hazards identification.	
<b>Product Classification</b>	: ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2B
<b>Signal word</b>	: Warning
<b>Hazard pictograms</b>	: 
<b>Hazard statements</b>	: Harmful if swallowed. Causes eye irritation.
<b>Precautionary statements</b>	
<b>General</b>	: Read label before use. Keep out of reach of children.
<b>Prevention</b>	: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Specific protective equipment is suggested for this product. See section 8 for details.
<b>Response</b>	: IF SWALLOWED: Rinse mouth. Rinse with water. IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
<b>Storage</b>	: No specific measure needed. See section 7 for more information on handling and storage.
<b>Disposal</b>	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Supplemental label elements</b>	: No additional information.
<b>Other hazards which do not result in classification</b>	: None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Ingredient name	CAS number	% (w/w)
Dichloroisocyanuric acid sodium salt	2893-78-9	30 - 60
Potassium hydrogen peroxymonosulfate	70693-62-8	30 - 60
dipotassium peroxydisulphate	7727-21-1	0 - 1

Occupational exposure limits, if available, are listed in Section 8.

### 4. FIRST AID MEASURES

#### Description of required first aid measures

<b>Eye contact</b>	In case of contact with eyes, flush with fresh water. Check for and remove any contact lenses. Continue rinsing. If irritation persists, get medical attention. Get medical attention if irritation persists.
<b>Skin contact</b>	Get medical attention if irritation occur.
<b>Ingestion</b>	Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Get medical attention if you feel unwell.
<b>Inhalation</b>	Move victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. Maintain an open airway.

#### Most important symptoms/effects, acute and delayed

<b>Eye contact</b>	Adverse symptoms may include the following: irritation watering redness
<b>Skin contact</b>	No specific symptoms under normal use conditions.
<b>Ingestion</b>	Adverse symptoms may include the following: stomach pains nausea or vomiting headache diarrhea
<b>Inhalation</b>	No specific symptoms under normal use conditions.
<b>Notes to physician</b>	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

<b>Suitable extinguishing media</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	No specific fire or explosion hazard.
<b>Hazardous thermal decomposition products</b>	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
<b>Special fire-fighting procedures</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should be taken involving any personal risk or without suitable training.
<b>Special protective equipment for fire-fighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Initiate spill response procedures if required.
<b>Personal protection</b>	Put on appropriate personal protective equipment (see Section 8).
<b>Cleaning method</b>	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). Use a water rinse for final clean-up.

## 7. HANDLING AND STORAGE

<b>Handling</b>	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 Section 8 for additional information on hygiene measures.
<b>Storage and Incompatibility</b>	Store in accordance with local regulations. 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. Keep out of reach of children. Store away from incompatible materials (see Section 10).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational exposure limits</b>	None.
<b>Appropriate engineering controls</b>	Good general ventilation should be sufficient to control worker exposure to airborne contaminants that could arise from the use if this product.
<b>Individual protection measures</b>	
<b>Eye/face protection</b>	Continued or intense exposures might required to wear safety glasses.
<b>Hands and Body protection</b>	No specific protective equipment required under normal use conditions.
<b>Respiratory protection</b>	It is suggested to wear dust-protection mask for prolonged or intense exposures.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Solid.	<b>pH</b>	4.5 [Conc. (% w/w): 1%]	<b>Flash point</b>	[Product does not sustain combustion.]
<b>Color</b>	White.	<b>Relative density</b>	Not available.	<b>Melting point</b>	Not available.
<b>Odor</b>	Chlorine	<b>Viscosity</b>	Not available.	<b>Boiling point</b>	Not available.
<b>Odor threshold</b>	Not available.	<b>Vapor pressure</b>	Not available.	<b>Fire point</b>	: Not available.
<b>Solubility in water</b>	: Not available.	<b>Vapor density</b>	: Not available.	<b>Evaporation rate</b>	: Not available.
<b>Decomposition temperature</b>	: Not available.	<b>Auto-ignition temperature</b>	: Not available.		
<b>Partition coefficient: n-octanol/ water</b>	: Not available.	<b>Flammability (solid, gas)</b>	: Not available.		
<b>Lower and upper explosive (flammable) limits</b>	: Not available.				

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

<b>Route of exposure</b>	Not available.	
<b>Eye contact</b>	<u>Potential acute health effects</u> May cause eye irritation.	<u>Symptoms</u> Adverse symptoms may include the following: irritation watering redness
<b>Skin contact</b>	No known significant effects or critical hazards.	No specific symptoms under normal use conditions.
<b>Ingestion</b>	Harmful if swallowed.	Adverse symptoms may include the following: stomach pains nausea or vomiting headache diarrhea
<b>Inhalation</b>	No known significant effects or critical hazards.	No specific symptoms under normal use conditions.

### Toxicity data

Product/ingredient name	Result	Species	Dose	Exposure
Dichloroisocyanuric acid sodium salt	LC50 Inhalation Dusts and mists	Rat	847.5 mg/m <sup>3</sup>	4 hours
Potassium hydrogen peroxymonosulfate	LD50 Oral	Rat	1420 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
	LD50 Oral	Rat	500 mg/kg	-

### Information on toxicological effects

<b>Mutagenicity</b>	No known significant effects or critical hazards.
<b>Teratogenicity</b>	No known significant effects or critical hazards.
<b>Developmental effects</b>	No known significant effects or critical hazards.
<b>Fertility effects</b>	No known significant effects or critical hazards.
<b>Sensitization</b>	Not available.
<b>Carcinogenicity</b>	No known significant effects or critical hazards.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity data


Product/ingredient name	Result	Species	Exposure
Dichloroisocyanuric acid sodium salt	Acute EC50 6.24 mg/l Fresh water	Algae - Scenedesmus acutus var. acutus	3 days
	Acute EC50 0.11 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 0.217 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours

**Persistence and degradability** : Unknown    **Bioaccumulative potential** : Unknown    **Mobility in soil** : Unknown    **Other adverse effects** : Unknown

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods** : Dispose content and container in accordance with local, regional and national regulation in force.

## 14. TRANSPORT INFORMATION

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	TDG Placard
<b>TDG Classification</b>	1479	UN1479 COMBURANT SOLID N.O.S. (Dichloroisocyanuric acid sodium salt)	5.1	II	

Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.23-2.25 (Class 5).

