



beachcomber  
HOT TUBS

# Material Safety Data Sheet

<b>WHMIS</b>	<b>TDG Road/Rail</b>

Health Hazard	0
Fire Hazard	0
Reactivity	0
Personal Protection	C

This MSDS is provided as information only. The product is not WHMIS regulated. The product is regulated under the PCP act and packaged as a consumer product.

## 1. Product and company identification

<b>Product name</b> : CHLOR BLAST	<b>Code</b> : 29-93210
<b>Date of issue (yyyy/mm/dd)</b> : 2014-05-30.	<b>Material uses</b> : Consumer products: Pool & Spa water treatment product
<b>Supplier</b> : Beachcomber Hot Tubs plus inc 12345, Comber Way Surrey, BC, Canada	<b>Manufacturer</b> : Manufactured for: Beachcomber Hot Tubs Plus Inc 13245, Comber Way Surrey, BC, Canada

**In case of emergency** : Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)

## 2. Hazards identification

Potential hazards described in this section are not expected when manufacturer's direction for use and proper security measures are observed.

**Physical state** : Solid. **Odor** : Chlorine [Strong]

**Emergency overview** : **DANGER!**

Harmful by inhalation and if swallowed. Corrosive to the eyes, skin and respiratory system. Causes burns. Do not ingest. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

**Routes of entry** : Inhalation. Ingestion.

### Potential acute health effects

**Inhalation** : Toxic by inhalation. Corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

**Ingestion** : Toxic if swallowed. May cause burns to mouth, throat and stomach.

**Skin** : Corrosive to the skin. Causes burns.

**Eyes** : Corrosive to eyes. Causes burns.

See toxicological information (Section 11) for more details.

## 3. Composition/information on ingredients

Name	CAS number	% (w/w)
troclosene sodium	2893-78-9	60 - 100

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4. First aid measures

**Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 20 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately.

**Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

**Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

## 5. Fire-fighting measures

- Flammability of the product** : Strong oxidizing agent. Contact with combustible material may cause fire.
- Extinguishing media**
- Suitable** : Do not use water jet Use flooding quantities of water. Do not use dry chemical extinguishers containing ammonium compounds. May reacts explosively with calcium hypochlorite in the presence of water.
- Not suitable** : Do not use water jet Do not use dry chemical extinguishers containing ammonium compounds.
- Special exposure hazards** : 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.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
metal oxide/oxides
- 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.
- Special remarks on fire hazards** : Contact with small amounts of water may result in an exothermic reaction with the liberation of toxic fumes. May reacts explosively with calcium hypochlorite in the presence of water.

## 6. Accidental release measures

- Personal precautions** : 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. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- 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 for cleaning up**
- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Put on suggested personal protective equipment when handling the product. Avoid contact with skin and eyes. Do not ingest. This product is formulated for commercial, institutional and industrial uses only.
- Storage** : Store in cool ventilated place. Keep container tightly closed when product is stored. Protect from freezing. Keep out of reach of children.

## 8. Exposure controls/personal protection

Occupational exposure limits		TWA (8 hours)			STEL (15 mins)			Ceiling			
Ingredient	List name	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	ppm	mg/m <sup>3</sup>	Other	Notations
No exposure limit value known.											

Consult local authorities for acceptable exposure limits.

- Engineering measures** : Général room ventilation is adequate for the use of this product.
- 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.
- Personal protection**
- Respiratory** : No specific protective equipment suggested
- Hands** : It is suggested to use chemical impervious protective gloves when using this product
- Eyes** : It suggested to wear safety glasses when handling or using chemical products.
- Skin** : 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.  
Recommended: safety apron

## 9. Physical and chemical properties

- |  |  |   |
|--|--|---|
| <b>Physical state</b> : Solid.                 | <b>Molecular formula</b> : Not applicable.         | <b>Flammable limits</b> : Not available.          |
| <b>Color</b> : White.                          | <b>Molecular weight</b> : Not applicable.          | <b>Burning rate</b> : Not available.              |
| <b>Odor</b> : Chlorine [Strong]                | <b>Vapor pressure</b> : Not available.             | <b>Burning time</b> : Not available.              |
| <b>Relative density</b> : Not available.       | <b>Vapor density</b> : Not available.              | <b>Critical temperature</b> : Not available.      |
| <b>pH</b> : 6 [Conc. (% w/w): 1%]              | <b>Volatility</b> : Not available.                 | <b>Auto-ignition temperature</b> : Not available. |
| <b>Viscosity</b> : Not available.              | <b>Evaporation rate</b> : Not available.           | <b>Flash point</b> : Not available.               |
| <b>Odor threshold</b> : Not available.         | <b>Ionicity (in water)</b> : Not available.        | <b>Dispersibility properties</b> : Not available. |
| <b>Solubility</b> : Not available.             |  |   |
| <b>Melting/freezing point</b> : Not available. | <b>Boiling/condensation point</b> : Not available. |   |

## 10. Stability and reactivity

<b>Chemical stability</b>	: The product is stable.
<b>Conditions to avoid</b>	: STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE. Keep away from water.
<b>Materials to avoid</b>	: Reactive or incompatible with the following materials: reducing materials combustible materials acids alkalis May react violently with calcium hypochlorite and water Avoid materials likes: nitrogen containing materials, oils, grease, sawdust, dry fire extinguishers containing monoammonium compounds.
<b>Hazardous decomposition products</b>	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Possibility of hazardous reactions</b>	: Under normal conditions of storage and use, hazardous reactions will not occur.

## 11. Toxicological information

The symptoms, hazards and situations described in this section are not expected when manufacturer's direction for use, proper security measures and given professional exposure limits are correctly followed.

### Potential chronic health effects

<b>Chronic effects</b>	:
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<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>Target organs</b>	: Contains material which causes damage to the following organs: lungs, gastrointestinal tract, eye, lens or cornea. Contains material which may cause damage to the following organs: mucous membranes, skin.

### Over-exposure signs/symptoms

<b>Inhalation</b>	: Adverse symptoms may include the following: respiratory tract irritation coughing
<b>Ingestion</b>	: Adverse symptoms may include the following: stomach pains
<b>Skin</b>	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Eyes</b>	: Adverse symptoms may include the following: pain watering redness

### Medical conditions aggravated by over-exposure

Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
troclosene sodium	LC50 Inhalation Vapor	Rat	847.5 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	1420 mg/kg	-

### Carcinogenicity Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
troclosene sodium	-	4	E	-	-	None.

## 12. Ecological information

**Ecotoxicity** : Do not contaminate water by cleaning of equipment or disposal of wastes. Toxic to aquatic organisms. When used according to the label instructions, hazards to non-target plants and aquatic organisms are very low.

### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Exposure	Species
troclosene sodium	-	Acute EC50 0.11 ppm Fresh water	48 hours	Daphnia - Water flea - Daphnia magna - <24 hours
	-	Acute LC50 0.217 ppm Fresh water	96 hours	Fish - Rainbow trout, donaldson trout - Oncorhynchus mykiss

**Toxicity of the products of biodegradation** : The products of biodegradation are less toxic than the original product.

## 13. Disposal considerations



**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Waste stream** : 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>DOT Classification</b>	2465	UN2465 DICHLOROISOCYANURIC ACID DRY (troclosene sodium)	5.1	II		-
<b>TDG Classification</b>	2465	DICHLOROISOCYANURIC ACID SALTS (troclosene sodium)	5.1	II		-

PG\* : Packing group

## 15. Regulatory information

**United States inventory (TSCA 8b)** : All components are listed or exempted.  
**WHMIS (Canada)** : Not controlled under WHMIS (Canada).  
**Canadian lists** : **CEPA Toxic substances:** None of the components are listed.  
**Canadian ARET:** None of the components are listed.  
**Canadian NPRI:** None of the components are listed.  
**Alberta Designated Substances:** None of the components are listed.  
**Ontario Designated Substances:** None of the components are listed.  
**Quebec Designated Substances:** None of the components are listed.

**Canada inventory** : At least one component is not listed.  
**Other certification** :

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16. Other information on the product


**Label requirements** : CAUSES RESPIRATORY TRACT, EYE AND SKIN BURNS. HARMFUL IF INHALED OR SWALLOWED.

**References** : - Manufacturer's Material Safety Data Sheet. MSDS prepared by: QA and Documentation Department

**Date of printing (YYYY-MM-DD)** : 2014-05-30.

**Date of issue (YYYY-MM-DD)** : 2014-05-30.

Note: MSDS are valid for a 3 years period after the date of issue

 Indicates information that has changed from previously issued version.

Manufactured for:  
 Beachcomber Hot Tubs Plus Inc  
 13245, Comber Way  
 Surrey, BC, Canada

### Notice to reader

There are potential hazards to people and goods associated with the use of this product which are detailed in the present Material Safety Data Sheet (MSDS). To minimize potential hazards associated with this product it is of users responsibility to conform the directions for use and all other instructions provided in the Material Safety Data Sheet (MSDS) of this product. The manufacturer, distributors and suppliers of this product are exonerating themselves and consequently shall not be liable for any prejudice or damage of any kind, resulting from the use of this product which may not be in accordance with the directions for use or all the instructions provided in the present Material Safety Data Sheet (MSDS) or resulting from an unadvised use of the present product..

**Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)**