



beachcomber
HOT TUBS

Material Safety Data Sheet

WHMIS	TDG Road/Rail

Health Hazard	*	2
Fire Hazard		1
Reactivity		1
Personal Protection		E

This MSDS is provided as information only. This product is not WHMIS regulated. This product is regulated under CCCR regulation. Packaged as a consumer good.

1. Product and company identification

Product name	: CARE FREE	Code	: 29-92332 / 29-93332
Date of issue (yyyy/mm/dd)	: 2014-05-30.	Material uses	: Consumer products: Pool & Spa water treatment product
Supplier	: Beachcomber Hot Tubs plus inc 12345, Comber Way Surrey, BC, Canada	Manufacturer	: Manufactured for: Beachcomber Hot Tubs Plus Inc 12345, 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. [Granular Powder]	Odor	: Odorless.
Emergency overview	: WARNING! Harmful by inhalation. May be harmful if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.		

Routes of entry : Eye contact. Inhalation. Ingestion.

Potential acute health effects

Inhalation	: Toxic by inhalation. Irritating to respiratory system. May cause sensitization by inhalation.
Ingestion	: Harmful if swallowed.
Skin	: Irritating to skin.
Eyes	: Irritating to eyes.

See toxicological information (Section 11) for more details.

3. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>% (w/w)</u>
dipotassium peroxodisulphate	7727-21-1	30 - 60
sodium sulphate	7757-82-6	10 - 30
sodium hydrogensulphate	7681-38-1	10 - 30

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	: No specific fire or explosion hazard.
Extinguishing media	
Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
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: sulfur oxides 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.

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. Avoid dust generation. Do not dry sweep. Place spilled material in a designated, labeled waste container. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, 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. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, 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			Notations
Ingredient	List name	ppm	mg/m ³	Other	ppm	mg/m ³	Other	ppm	mg/m ³	Other	
dipotassium peroxodisulphate, as persulfate	US ACGIH 3/2012	-	0.1	-	-	-	-	-	-	-	
dipotassium peroxodisulphate	AB 4/2009	-	0.1	-	-	-	-	-	-	-	[3]
dipotassium peroxodisulphate, as persulfate	BC 9/2011	-	0.1	-	-	-	-	-	-	-	
dipotassium peroxodisulphate [3]Skin sensitization	ON 7/2010	-	0.1	-	-	-	-	-	-	-	

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.

Personal protective equipment (Pictograms) :



9. Physical and chemical properties

Physical state	: Solid. [Granular Powder]	Molecular formula	: Not applicable.	Flammable limits	: Not available.
Color	: White.	Molecular weight	: Not applicable.	Burning rate	: Not available.
Odor	: Odorless.	Vapor pressure	: Not available.	Burning time	: Not available.
Relative density	: 1.46	Vapor density	: Not available.	Critical temperature	: Not available.
pH	: 2.5 [Conc. (% w/w): 1%]	Volatility	: Not available.	Auto-ignition temperature	: Not available.
Viscosity	: Not available.	Evaporation rate	: Not available.	Flash point	: [Product does not sustain combustion.]
Odor threshold	: Not available.	Ionicity (in water)	: Not available.	Dispersibility properties	: Not available.
Solubility	: Not available.				
Melting/freezing point	Not available.			Boiling/condensation point	: Not available.

10. Stability and reactivity

Chemical stability	: The product is stable.
Conditions to avoid	: No specific data.
Materials to avoid	: No specific data. Highly reactive or incompatible with the following materials: reducing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Possibility of hazardous reactions	: Hazardous reactions or instability may occur under certain conditions of storage or use.

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

Chronic effects	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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.
Target organs	: Contains material which may cause damage to the following organs: upper respiratory tract, skin.

Over-exposure signs/symptoms

Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma
Ingestion	: No specific data.
Skin	: Adverse symptoms may include the following: irritation redness
Eyes	: Adverse symptoms may include the following: pain or irritation watering redness

Medical conditions aggravated by over-exposure :

Pre-existing respiratory disorders and disorders involving any other 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
dipotassium peroxodisulphate	LC50 Inhalation Dusts and mists	Rat	42.9 mg/l	1 hours
	LC50 Inhalation Dusts and mists	Rat	10725 mg/m ³	4 hours
sodium sulphate	LD50 Oral	Rat	802 mg/kg	-
sodium hydrogensulphate	LD50 Oral	Mouse	5989 mg/kg	-
	LD50 Oral	Rat	2490 mg/kg	-
	LD50 Oral	Rat	2800 mg/kg	-

Carcinogenicity Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
sodium hydrogensulphate	-	3	-	-	-	None.

12. Ecological information

Ecotoxicity : No known significant effects or critical hazards.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Exposure	Species
dipotassium peroxodisulphate	-	Acute LC50 1175000 µg/l	48 hours	Crustaceans - Cyclopoid copepod - Cyclops strenuus
	-	Acute LC50 92000 µg/l	48 hours	Daphnia - Water flea - Daphnia magna
sodium sulphate	-	Acute EC50 1900000 µg/l Fresh water	96 hours	Algae - Diatom - Navicula seminulum
	-	Acute IC50 3359.12 mg/l Fresh water	72 hours	Algae - Green algae - Pseudokirchneriella subcapitata - Exponential growth phase
	-	Acute LC50 2220 µg/l Marine water	48 hours	Crustaceans - Opossum shrimp - Americamysis bahia
	-	Acute LC50 1194 mg/l Fresh water	48 hours	Daphnia - Water flea - Daphnia magna
	-	Acute LC50 56000 µg/l Fresh water	96 hours	Fish - Striped bass - Morone saxatilis - Larvae
	-	Chronic NOEC 1060 mg/l Fresh water	72 hours	Algae - Green algae - Pseudokirchneriella subcapitata - Exponential growth phase
sodium hydrogensulphate	-	Acute EC50 190 mg/l	48 hours	Daphnia - Daphnia magna

Bioconcentration factor : Not available.

13. Disposal considerations


Waste disposal : 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.

Waste stream : Not available.

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
DOT Classification	Not available.	Not available.	Not available.	-		-
TDG Classification	1492	UN1492 POTASSIUM PERSULFATE (dipotassium peroxodisulphate)	5.1	III		Remarks Limited Qt index 5 kg

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

: All components are listed or exempted.

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 : HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY REACTION. MAY BE HARMFUL IF SWALLOWED.

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

MSDS prepared by:
QA and Documentation Department
Manufactured for:
Beachcomber Hot Tubs Plus Inc
13245, Comber Way
Surrey, BC, Canada

 Indicates information that has changed from previously issued version.

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)