

**SAFETY DATA SHEET****Sodium Percarbonate****Section 01 - Product And Company Identification**

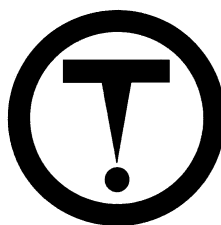
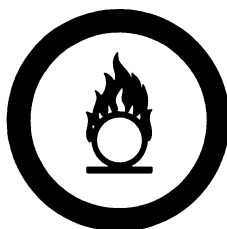
**Product Identifier** ..... Sodium Percarbonate

**Product Use** ..... Bleaching agent, cleansing product, washing products: bleaching agent, chemical intermediate, oxidant.

**Supplier Name**..... ClearTech Industries Inc.  
1500 Quebec Avenue  
Saskatoon, SK. Canada  
S7K 1V7

**Prepared By**..... ClearTech Industries Inc. Technical Department  
Phone: 800-387-7503

**24-Hour Emergency Phone**..... 800-387-7503

**Section 02 - Composition / Information on Ingredients**

**Ingredients**..... Disodium carbonate, compound with  $\geq 95\%$   
hydrogen peroxide (2:3)

**CAS Number**..... Disodium carbonate, compound with 15630-89-4  
hydrogen peroxide (2:3)

**Synonym (s)**..... Sodium carbonate peroxyhydrate (2:3), sodium carbonate peroxide,  
disodium carbonate compound with hydrogen peroxide (2:3),  
carbonic acid disodium salt, compound with hydrogen peroxide (H<sub>2</sub>-O<sub>2</sub>)  
(2:3), sodium peroxocarbonate (2:3). Provox, Provox C.

**Section 03 - Hazard Identification**

**Inhalation**..... Short-term exposure: Nose and throat irritation, cough.  
Repeated or prolonged exposure: risk of throat, nose bleeds, chronic  
bronchitis.



<b>Skin Contact / Absorption</b> .....	Short-term exposure: Irritation. Repeated or prolonged contact: Dermatitis.
<b>Eye Contact</b> .....	Causes serious eye damage. Severe watering, irritation and redness and causes conjunctivitis. Risk of serious eye lesions.
<b>Ingestion</b> .....	Harmful if swallowed. Severe irritation of the mouth, esophagus and stomach. Causes bloating of stomach, belching, nausea, and vomiting.
<b>Exposure Limits</b> .....	OSHA : total dust 15 mg/m <sup>3</sup> . Respirable fraction: 5mg/m <sup>3</sup> . ACGIH: inhalable particulate 10mg/m <sup>3</sup> . Respirable particulate 3 mg/m <sup>3</sup> .

#### Section 04 - First Aid Measures

<b>Inhalation</b> .....	Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.
<b>Skin Contact / Absorption</b> .....	Remove contaminated clothing. Wash affected area with plenty of water and a mild detergent. Seek medical attention if irritation occurs or persists.
<b>Eye Contact</b> .....	Check for and remove any contact lenses. Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention.
<b>Ingestion</b> .....	Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. If the subject is completely conscious give 2-4 glasses of water to dilute the chemical.
<b>Additional Information</b> .....	Treatment based on sound judgment of physician and individual reactions of patient. Medical conditions that may be aggravated by exposure to this product include diseases of the skin, eyes or respiratory tract. Harmful if inhaled or swallowed. Wash thoroughly after handling. Medical conditions aggravated by exposure: pre-existing skin, eye and respiratory disorders.

#### Section 05 - Fire Fighting Measures

<b>Conditions of Flammability</b> .....	Non combustible.
<b>Means of Extinction</b> .....	Use extinguishing media appropriate for surrounding fire. Flood with water for extinguishing agent.



**Flash Point**..... Not applicable

**Auto-ignition Temperature**..... Not applicable

**Upper Flammable Limit** ..... Not available

**Lower Flammable Limit**..... Not available

**Hazardous Combustible Products**.... Upon combustion: CO and CO<sub>2</sub> are formed.

**Special Fire Fighting Procedures**..... Wear NIOSH-approved self-contained breathing apparatus and protective clothing. Evacuate all non-essential personnel from fire area. Intervene only by capable personnel who are trained and aware of the hazards of the product. Move unaffected product to a safe area if safe to do so. Use copious amounts of water to extinguish the fire.

**Explosion Hazards**..... Strong oxidizers can cause ignition of combustible or oxidizable materials. Oxidizing substance which can be decomposed by water, direct sources of heat, catalysts etc. Decomposition in the presence of organic materials can be highly exothermic and may cause combustion. Decomposition releases oxygen and heat which can support combustion and cause pressure bursts in confined spaces or containers.

## Section 06 - Accidental Release Measures

**Leak / Spill**..... Wear appropriate personal protective equipment. Stop or reduce leak if safe to do so. Prevent material from entering sewers or streams. Ventilate area as product is a strong oxidizer. Do not use combustible materials such as sawdust as an absorbent. Pick up solids and put in an appropriate sealed container for later disposal. Avoid dry sweeping and any dust formation. Do not use compressed air to clean surfaces. Vacuuming or wet sweeping is preferred. Do not return spilled or contaminated material to inventory. Collect product for disposal as described in section 13.

**Deactivating Materials**..... Not available.



## Section 07 - Handling and Storage

- Handling Procedures**..... Good housekeeping procedures should be followed to minimize dust generation and accumulation. Spilled material may be slippery. Keep away from sources of ignition. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Immerse contaminated clothing in water immediately and keep wet until discarded or laundered. Launder contaminated clothing prior to reuse. Use with adequate ventilation. Avoid breathing in dust. Avoid any contact with moisture or humidity, except for emergencies and clean up as described in this SDS. Never return unused product to original container. Keep away from incompatible products. Clean and drip process piping and equipment before using the product. Containers and equipment used to handle the product should be used exclusively for that product.
- Storage Requirements**..... Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in vented containers. Do not exceed sealed containers to temperatures above 40°C. Do not store on wooden floors or wooden pallets. Protect against moisture. Damp material may decompose exothermically and may cause combustion of organic material. Oxygen release due to exothermic decomposition may support combustion. Prolonged storage may result in lumping or caking. Keep away from direct sunlight. Protect against physical damage. Store only in the original container. Store in accordance with good industrial practices.

## Section 08 - Personal Protection and Exposure Controls

### Protective Equipment

- Eyes**..... Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.
- Respiratory**..... If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. Do not use chemical cartridge respirators with oxidisable sorbents (charcoal). A NIOSH/MSHA approved dust mask for concentrations of nuisance dust up to 50mg/m<sup>3</sup>. An air-supplied respirator if concentrations are higher or unknown.
- Gloves**..... Impervious gloves of chemically resistant material (rubber, neoprene or PVC) should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.
- Clothing**..... Body suits, aprons, and/or coveralls of chemical resistant material should be worn at all times. Wash contaminated clothing and dry thoroughly before reuse.
- Footwear**..... Impervious boots of chemically resistant material should be worn.

**Engineering Controls**

**Ventilation Requirements**..... Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems. Ventilation system should be corrosion proof.

**Other**..... Emergency shower and eyewash should be in close proximity.

**Section 09 - Physical and Chemical Properties**

**Physical State**..... Crystalline powder [solid]

**Odor and Appearance**..... Odorless, free flowing, white crystalline powder.

**Odor Threshold**..... Not applicable

**Specific Gravity (Water=1)**..... Not available

**Vapor Pressure (mm Hg, 20°C)**..... Not available

**Vapor Density (Air=1)**..... Not available

**Evaporation Rate**..... Not available

**Boiling Point**..... Decomposes above 75°C

**Freeze/Melting Point**..... Not available

**pH**..... 10.4 – 10.6 [@ 140 g/L, 20°C]

**Water/Oil Distribution Coefficient**..... Not available

**Bulk Density**..... 900 – 1100 [g/L]

**% Volatiles by Volume**..... Not available

**Solubility in Water**..... 140 g/L @ 20°C

**Molecular Formula**.....  $2\text{Na}_2\text{CO}_3 \cdot 3\text{H}_2\text{O}_2$

**Molecular Weight**..... 314.06 g/mol

**Section 10 - Stability and Reactivity**

**Stability**..... Unstable on exposure to heat. Unstable on exposure to moisture.



- Incompatibility**..... Conditions to avoid:  
Heat, open flames, all ignition sources, moisture [except for emergencies and clean up as described in the SDS], conditions that generate dust.  
Incompatible Materials:  
Water and other liquids. acids, bases, metals, oxidizing agents, organic materials, combustible materials, steel.
- Hazardous Products of Decomposition**... Reacts with many compounds: oxidation resulting in increased fire or explosion risk.
- Polymerization**..... Will not occur.

## Section 11 - Toxicological Information

- Irritancy**..... Product is a strong irritant.
- Sensitization**..... Sensitivity reactions may occur from prolonged and repeated exposure.
- Chronic/Acute Effects**..... Prolonged and repeated exposure may cause coughing and sneezing, nosebleeds, sore throat and chronic bronchitis. Effects (irritancy) on the skin and eyes may be delayed and damage may occur without the sensation or onset of pain. May cause central nervous system (CNS) depression. CNS depression is characterized by headache, dizziness, drowsiness, nausea, vomiting and incoordination. Severe overexposure may lead to coma and possible death due to respiratory failure. Excessive contact may produce "soda ulcers" on hands and perforation of the nasal septum.
- Synergistic Materials**..... Not available
- Animal Toxicity Data**..... LD<sub>50</sub> [oral, rat]: 1034 mg/kg  
LD<sub>50</sub> [dermal, rabbit]: >2000 mg/kg  
EC<sub>50</sub> [Daphnia pulex, 48h, semi-static]: 4.9 mg/L
- Carcinogenicity**..... Not classified as carcinogenic by IARC, ACGIH, NTP or OSHA.
- Reproductive Toxicity**..... Not available
- Teratogenicity**..... Not available
- Mutagenicity**..... Not available



## Section 12 - Ecological Information

**Fish Toxicity**..... LC<sub>50</sub> [Pimephales promelas, 48h, semi-static]: 70.7 mg/L

**Biodegradability**..... Not applicable. Hydrolysis in water.

**Environmental Effects**..... Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways. Product may be harmful to aquatic life.

## Section 13 - Disposal Consideration

**Waste Disposal**..... Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

## Section 14 - Transport Information

### TDG Classification

**Shipping Name**..... Sodium Percarbonate

**Class**..... 5.1

**Group**..... II

**PIN Number**..... UN 3378

**Other**..... Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.

**PRODUCT CLASSIFICATION:** This product has been classified on the preparation date specified at section 16 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

## Section 15 - Regulatory Information

**WHMIS Classification**.....C, D2

**NOTE:** THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.



## Section 16 - Other Information

**Version #**..... One  
**Preparation Date**..... March 28, 2013  
**Revision Date**..... May 14, 2014  
**Revision Note**..... Updated technical and CTI information.

**Note:** The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

### **Attention: Receiver of the chemical goods / SDS coordinator**

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution<sup>®</sup> initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service or technical service department.

## ClearTech Industries Inc. - Locations

**Corporate Head Office: 1500 Quebec Avenue, Saskatoon, SK, S7K 1V7**  
**Phone: 800-387-7503**  
**Fax: 888-281-8109**  
**[www.ClearTech.ca](http://www.ClearTech.ca)**

Location	Address	Postal Code	Phone Number	Fax Number
Richmond, B.C.	12431 Horseshoe Way	V7A 4X6	800-387-7503	888-281-8109
Port Coquitlam	2023 Kingsway Avenue	V3C 1S9	800-387-7503	888-281-8109
Calgary, AB.	5516E - 40 <sup>th</sup> St. S.E.	T2C 2A1	800-387-7503	888-281-8109
Edmonton, AB.	12020 - 142 <sup>nd</sup> Street	T5L 2G8	800-387-7503	888-281-8109
Saskatoon, SK.	North Corman Industrial Park	S7K 1V7	800-387-7503	888-281-8109
Regina, SK.	555 Henderson Drive	S42 5X2	800-387-7503	888-281-8109
Winnipeg, MB.	340 Saulteaux Crescent	R3J 3T2	800-387-7503	888-281-8109
Mississauga, ON.	7480 Bath Road	L4T 1L2	800-387-7503	888-281-8109





**24 Hour Emergency Number - All Locations - 800-387-7503**