Sodium Percarbonate

SECTION 1. IDENTIFICATION

Product Identifier: Sodium Percarbonate
Other Means of Identification: Peroxy sodium carbonate, Sodium carbonate peroxyhydrate
Product Code(s): SO5410
Product Family: Inorganic Solid
Recommended Use: Laboratory and industrial use.
Restrictions on Use: None known.
Supplier Identifier: Alphachem Limited, 2485 Milltower Court, Mississauga, Ontario, L5N 5Z6, (905) 821-2995
Emergency Phone No.: CANUTEC CANADA, 613-996-6666, 24 Hours
SDS No.: 0400
Date of Preparation: February 29, 2016

SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).

Classification:
Oxidizing solid - Category 3; Acute toxicity (Oral) - Category 4; Serious eye damage - Category 1

Label Elements

signal Word:
Danger

Hazard Statement(s):
May intensify fire; oxidizer.
Harmful if swallowed.
Causes serious eye damage.

Precautionary Statement(s):
Prevention:
Wash hands and skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep away from heat, sparks, open flames, and hot surfaces. — No smoking.
Take any precaution to avoid mixing with combustibles.
Response:
IF SWALLOWED: Immediately call a POISON CENTRE or doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing.
Disposal:
Dispose of contents and container in accordance with local, regional, national and international regulations.
Other Hazards
None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance:</th>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>%</th>
<th>Other Identifiers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Carbonic acid, disodium salt, compd. with hydrogen peroxide (2:3)</td>
<td>15630-89-4</td>
<td>&gt; 99</td>
<td>Peroxy sodium carbonate, Sodium carbonate peroxyhydrate</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation
Remove source of exposure or move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor.

Skin Contact
Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs, get medical advice or attention.

Eye Contact
Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Immediately call a Poison Centre or doctor.

Ingestion
Do not induce vomiting. Rinse mouth with water. Immediately call a Poison Centre or doctor.

First-aid Comments
All first aid procedures should be periodically reviewed by a doctor familiar with the material and its condition of use in the workplace.

Most Important Symptoms and Effects, Acute and Delayed
If in eyes: may cause serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result.

Immediate Medical Attention and Special Treatment

Special Instructions
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media
Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog. Use flooding quantities of water spray or fog.

Unsuitable Extinguishing Media
None known.

Specific Hazards Arising from the Product
Oxidizer. Releases oxygen to create an oxygen-rich atmosphere. Will cause combustible materials to ignite more readily.
In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides. Sodium Oxides.

Special Protective Equipment and Precautions for Fire-fighters
Evacuate area. Fight fire remotely due to the risk of explosion. Oxidizer. Prevent contact with flammable and combustible materials. For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles.
Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures
Emergency responders: use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Remove or isolate incompatible materials as well as other hazardous materials.

Environmental Precautions
Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up
Avoid generating dust. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling
Wear personal protective equipment to avoid direct contact with this chemical. Do not breathe in this product. Do not get in eyes, on skin or on clothing. Only use where there is adequate ventilation. Prevent accidental contact with flammable and combustible materials. Prevent accidental contact with incompatible chemicals. Keep containers tightly closed when not in use or empty.

Conditions for Safe Storage
Store in an area that is: cool, dry, well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity), clear of combustible and flammable materials (e.g. old rags, cardboard). Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity). Store in the original, labelled, shipping container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters
Not available.

Consult local authorities for provincial exposure limits. Consult local authorities for state exposure limits.

Appropriate Engineering Controls
Use local exhaust ventilation and enclosure, if necessary, to control amount in the air.

Individual Protection Measures

Eye/Face Protection
Wear chemical safety goggles and face shield when contact is possible.

Skin Protection
Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection
Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance: White powder.

Odour: Odourless

Product Identifier: Sodium Percarbonate

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SECTION 10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions of use.

Chemical Stability
Normally stable.

Possibility of Hazardous Reactions
None known.

Conditions to Avoid
Heat. Water, moisture or humidity.

Incompatible Materials
Strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide), reducing agents (e.g. hydroquinone), water.

Hazardous Decomposition Products
Corrosive, oxidizing nitrogen oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure
Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LC50</th>
<th>LDS50 (oral)</th>
<th>LDS50 (dermal)</th>
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<tbody>
<tr>
<td>Carbonic acid, disodium salt, compd. with hydrogen peroxide (2:3)</td>
<td>&gt; 4.58 mg/L (rat) (1-hour exposure)</td>
<td>2000 mg/kg (rat)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Skin Corrosion/Irritation
May cause moderate or severe irritation based on information for closely related materials.
Serious Eye Damage/Irritation
May cause serious eye irritation based on information for closely related materials.

STOT (Specific Target Organ Toxicity) - Single Exposure
  Inhalation
  May cause lung injury.
  Ingestion
  Harmful.

Aspiration Hazard
No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure
No information was located.

Respiratory and/or Skin Sensitization
No information was located.

Carcinogenicity

<table>
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<tr>
<th>Chemical Name</th>
<th>IARC</th>
<th>ACGIH®</th>
<th>NTP</th>
<th>OSHA</th>
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<tr>
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<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

Reproductive Toxicity
  Development of Offspring
  No information was located.
  Sexual Function and Fertility
  No information was located.
  Effects on or via Lactation
  No information was located.

Germ Cell Mutagenicity
No information was located.

Interactive Effects
No information was located.

SECTION 12. ECOLOGICAL INFORMATION
This section is not required by WHMIS. This section is not required by OSHA HCS 2012.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose of contents and container in accordance with local, regional, national and international regulations.

SECTION 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Regulation</th>
<th>UN No.</th>
<th>Proper Shipping Name</th>
<th>Transport Hazard Class(es)</th>
<th>Packing Group</th>
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<tr>
<td>Canadian TDG</td>
<td>UN3378</td>
<td>OXIDIZING SOLID, N.O.S. (Sodium Carbonate Peroxyhydrate)</td>
<td>5.1</td>
<td>III</td>
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</table>

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code
SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada
- Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)
  Listed on the DSL.

USA
- Toxic Substances Control Act (TSCA) Section 8(b)
  Listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA Rating</th>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
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<tr>
<td></td>
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</table>

SDS Prepared By: Alphachem Limited

Phone No.: (905)-821-2995

Date of Preparation: February 29, 2016

Date of Last Revision: March 24, 2016

References: CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

Disclaimer: This document is offered only as a guide in the safe handling of the above product, and has been prepared from the best information currently available. It is not intended to be all-inclusive and the conditions of use may involve other additional considerations. Since Alphachem Limited cannot anticipate or control the conditions under which the product may be used, it will not be liable for any claims, damages or losses which may result from the use or reliance on any information herein.

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