

# Material Safety Data Sheet



## Provox<sup>®</sup>, Provox C<sup>®</sup>

### SECTION 1. CHEMICAL PRODUCTS AND COMPANY IDENTIFICATION

Product Name	Provox <sup>®</sup> , Provox C <sup>®</sup>
Chemical Name	Sodium Carbonate Peroxyhydrate
Synonyms	PCS, PC, Sodium Percarbonate, Sodium Carbonate Peroxide
Manufacturer	OCI Chemical Corporation Five Concourse Parkway, Suite 2500 Atlanta, GA 30328
Emergency Telephone Numbers	OCI Emergency Contact: (800) 865-1774 For emergencies involving a spill, leak, fire or exposure, contact: » United States.....CHEMTREC..... (800) 424-9300 » Canada.....CANUTEC..... (613) 996-6666
Effective Date	December 18, 2009
Material Identification	CAS Number: 15630-89-4 UN Number: 3378 EINECS Number: 239-707-6 Substance: Sodium Carbonate Peroxyhydrate

**Not valid two years after effective date or after issuance of superseding MSDS, whichever is earlier.**

Translations of this MSDS may be available. Check [www.ocichemical.com](http://www.ocichemical.com) or call OCI Chemical Corporation at (800) 865-1774 to verify the latest version or translation availability.

Material Safety Data Sheets contain country specific regulatory information; therefore, the MSDS's provided are for use only by customers of OCI in the United States of America and, if specifically indicated, Canada and Mexico. If you are located in a country other than the United States, please contact OCI for MSDS information applicable to your location.

### SECTION 2. HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Materials	CAS #	Wt. %
Sodium Percarbonate	15630-89-4	≤ 98.5
Sodium Carbonate	497-19-8	≤ 5
Sodium Metasilicate	6834-92-0	≤ 1.5

**SECTION 3. HAZARDS IDENTIFICATION**

**NAFA Ratings (SCALE 0 - 4): HEALTH = 2, FLAMMABILITY = 0, REACTIVITY = 1**

**Emergency Overview**

1. Harmful if inhaled or swallowed
2. Eye contact may cause serious irritation
3. Skin contact may cause serious irritation
4. The material is an oxidizing agent which can be decomposed by water, direct sources of heat, catalyst, etc.
5. Decomposition releases oxygen and heat
6. Decomposition in the presence of combustible materials (wood, cloth, etc.) may cause fire
7. Use and store under adequate ventilation
8. Wash thoroughly after handling
9. Handle with caution
10. Not explosive

**Primary Route of Entry and Potential Health Effects**

**Inhalation**

- Short-term exposure: Nose and throat irritation, cough
- Repeated or prolonged exposure: Risk of throat, nose bleeds, chronic bronchitis

**Skin Contact**

- Short-term exposure: Irritation
- Repeated or prolonged contact: Dermatitis

**Eye Contact**

- Severe watering, irritation and redness and cause conjunctivitis
- Risk of serious eye lesions

**Ingestion**

- Severe irritation of the mouth, esophagus and stomach
- Bloating of stomach, belching and nausea, vomiting

**Medical conditions aggravated by exposure**

- Pre-existing skin, eye and respiratory disorders

**NOT A CARCINOGEN**

- Not listed in National Toxicology Program Annual Report on Carcinogens
- Not found to be a potential carcinogen in the International Agency for Research on Cancer Monographs
- Not found to be a potential carcinogen by OSHA

**SECTION 4. FIRST AID MEASURES**

**Inhalation**

- Remove the subject from exposure immediately and perform artificial respiration, if needed
- Get medical attention in case of respiratory symptoms

**Skin Contact**

- Remove contaminated clothing, shoes, etc. immediately
- Wash the affected skin with soap or mild detergent and large quantities of running water until no evidence of chemical remains
- Get medical attention in case of persistent pain or redness

**Eye Contact**

- Remove contact lenses
- Flush eyes immediately with large quantities of running water, while keeping eyelids wide open (at least for 15-20 minutes)
- Get medical attention immediately

**Ingestion**

- Get medical attention immediately
- If the subject is completely conscious, give 2-4 glasses of water to dilute the chemical  
Do not induce vomiting
- If the subject is unconscious, loosen tight clothing and lay the victim on his/her left side  
Give nothing by mouth and do not induce vomiting

**Antidote**

- No specific antidote
- Treat symptomatically and supportively

**SECTION 5. FIRE FIGHTING MEASURES**

1. Flash Point: Not Applicable
2. Auto-ignition: Not Applicable
3. Non-flammable and Non-explosive
  - Oxidizing substance which can be decomposed by water, direct sources of heat, catalysts, etc.
  - Decomposition releases oxygen and heat which can support combustion and cause pressure bursts in confined spaces or containers
  - Decomposition in the presence of organic materials can be highly exothermic and may cause combustion

**Extinguishing Media**

- Flood with water for extinguishing agent

**Fire Fighting**

- Evacuate all non-essential personnel from fire area
- Intervention only by capable personnel who are trained and aware of the hazards of the product
- The personnel should wear normal protective equipment and positive self-contained breathing apparatus
- Move unaffected product to a safe area if safe to do so
- Use copious amounts of water to extinguish fire

**SECTION 6. ACCIDENTAL RELEASE MEASURES****Precautions**

- Observe the protection measures given in sections 5 and 8
- Avoid materials and products which are incompatible with the product (see section 10)
- Avoid direct contact of the product with moisture, except for emergencies and clean-up as described in this MSDS

**Clean-up Methods**

- Collect the product with suitable means, shovel or sweep, avoiding dust formation
- All receiving equipment should be clean, dry, vented, labeled and made of material that is compatible with the product
- Do not return spilled or contaminated material to inventory
- Clean the area with large quantities of water
- For disposal methods, refer to section 13

**SECTION 7. HANDLING AND STORAGE****Handling**

- Clean and drip process piping and equipment before using the product
- Never return unused product to original container
- Keep away from incompatible products
- Containers and equipment used to handle the product should be used exclusively for that product
- Avoid any contact with moisture or humidity, except for emergencies and clean-up as described in this MSDS

**Storage**

- In a cool and dry area (protect from direct sunlight)
- Keep away from heat and humidity sources
- Keep away from reactive products (see section 10)
- Store in vented containers

**SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****Exposure Limits**

- OSHA PEL: particulates not otherwise classified
  - Total dust 15 mg/m<sup>3</sup>
  - Respirable fraction 5mg/m<sup>3</sup>
- ACGIH® TLV®: Particulates not otherwise classified
  - Inhalable 10 mg/m<sup>3</sup> 1996
  - Respirable 3 mg/m<sup>3</sup>
- TNA: No data available
- STEL: No data available

**Eye Protection**

- Splash-proof or dust-proof safety goggles and face shield

**Gloves**

- Appropriate impervious and chemical resistant gloves

**Respiratory Protection**

- Specific respirator should be selected based on contamination levels found in the work place and jointly approved by the national Institute of Occupational Safety and Health (NIOSH) and the Mine Safety and Health Administration (MSHA)

**Appropriate Hygienic Practices**

- Wash hands carefully and thoroughly after handling
- Remove contaminated clothing and wash before reuse
- Avoid contact with skin and eyes

**Protective measures during repair and maintenance of equipment**

- No additional protection required, follow MSDS provisions for exposure controls and personal protection

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance.....	Free flowing, white, granular powder
Molecular Formula.....	$2\text{Na}_2\text{CO}_3 \cdot 3\text{H}_2\text{O}_2$
Bulk Density (g/ℓ).....	0.90 ~ 1.20
Active Oxygen.....	Minimum 13.0 wt. %
Water Solubility (g/ℓ).....	140 (at 20° C)
pH.....	$10.0 \pm 1.0$ (1% Solution [aq.])
Evaporation Rate (butyl acetate = 1).....	No data available
Specific Heat.....	No data available
Vapor Point.....	No data available

Sodium Carbonate Peroxyhydrate dissociates into Sodium Carbonate and Hydrogen Peroxide in aqueous solution, and dissociated Hydrogen Peroxide decomposes into water and free oxygen

**SECTION 10. STABILITY AND REACTIVITY**

**Stability:** Stable, under certain conditions (see below)

**Conditions to Avoid**

1. Heat or flame
2. Moisture, except for emergencies and clean-up as described in this MSDS

**Materials to Avoid**

1. Water and other liquids, except for emergencies and clean-up as described in this MSDS
2. Acids
3. Bases
4. Salts of metals
5. Reducing agents
6. Organic materials
7. Flammable substances

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute Toxicity (oral).....	LD50 1.90g/kg ~ 3g/kg
Irritation.....	Eye, skin, mucous membrane

There is a limited amount of toxicological data available on the various components of this product. An adequate representation of these data is beyond the scope of this document. Please contact OCI Chemical Corp. for more details (1-800-865-1774).

**SECTION 12. ECOLOGICAL INFORMATION**

There is a limited amount of toxicological data available on the various components of this product. An adequate representation of these data is beyond the scope of this document. Please contact OCI Chemical Corp. for more details (1-800-865-1774).



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