



Material Safety Data Sheet

Provox, Provox C

SECTION 1. CHEMICAL PRODUCTS AND COMPANY IDENTIFICATION

Product Name: Provox, Provox C

Chemical Name: Sodium Carbonate Peroxyhydrate

Synonyms: PCS, Sodium Percarbonate, Sodium Carbonate Peroxide

Manufacturer: OCI Chemical Corp.
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Effective Date: January 03, 2008

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(888) 278-1657

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 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.



Material Identification:

CAS Number: 15630 - 89 - 4
UN Number: 3378
EINECS Number: 239 - 707 - 6
Substance: Sodium Carbonate Peroxyhydrate

SECTION 2. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Materials	CAS#	Wt. %
Sodium Percarbonate	15630-89-4	< 88.5
Sodium Carbonate	497-19-8	< 5
Sodium Metasilicate	6834-92-0	≤ 1.4

SECTION 3. HAZARDS IDENTIFICATION

NFPA 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 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 Routes 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, can cause conjunctivitis
- Risk of serious eye lesions

Ingestion :

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

Medical conditions aggravated by exposure :

- Pre-existing skin, eye and respiratory disorders



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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

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SECTION 5. FIRE FIGHTING MEASURES

Fire and Explosion Hazard:

- 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.



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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.

Cleanup 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 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 dry process piping and equipment before using the product.
- Never return unused product to original container. Keep away from incompatible products.

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- 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/m³
Respirable fraction 5 mg/m³
- ACGIH® TLV®: Particulates not otherwise classified
Inhalable 10mg/m³ 1996
Respirable 3 mg/m³
- 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.

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Respiratory Protection:

- Specific respirator should be selected based on contamination levels found in the work place and jointly approved by the National Institute for 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): 0.95 ~ 1.08

Active Oxygen: 13.5% up (Provox), 13.0% up (Provox C)

Water solubility(g/ℓ): 140 (at 20°)

PH: 10.0 ± 1.0 (1% Solution)

Evaporation Rate (butyl acetate = 1): No data available

Specific Heat: No data available

Vapor Point: Not available

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

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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 1.9g/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 ecological 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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SECTION 13. DISPOSAL CONSIDERATION

- RCRA hazardous waste #D001 if discarded
- Dispose of in an approved waste facility operated by an authorized contractor in compliance with relevant regulations.
- The empty and clean containers are to be recycled or disposed of in conformity with local regulations.

SECTION 14. TRANSPORT INFORMATION

Proper Shipping Name: Sodium Carbonate Peroxyhydrate
UN Number : 3378
Hazard Class : 5.1
Label : 5.1 (Oxidizer)
Packing Group: II

SECTION 15. REGULATORY INFORMATION

TSCA Inventory List:	Yes
Domestic Substances List:	Listed
WHMIS Classification:	C Oxidizing Material D2B Poisonous and Infectious Material Materials Causing Other Toxic Effects – Eye and Skin Irritant
California Proposition 65:	Not Listed

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CERCLA Hazardous Substance (40 CFR Part 302)

Listed Substance:	No
Unlisted Substance:	Yes
Reportable Quantity (RQ):	100 pounds
Characteristic(s):	Ignitability
RCRA Waste Number:	D001

SARA, Title III, Sections 302/303 (40 CFR part 355 – Emergency Planning and Notification)

Extremely Hazardous Substance: No

SARA, Title III, Section 311/312 (40 CFR Part 370 – Hazardous Chemical Reporting: Community Right-To-Know)

Hazard Category:	Immediate health hazard
	Fire hazard
Threshold planning quantity:	10,000 pounds

SARA, Title III, Section 313

(40 CFR Part 372 – Toxic chemical Release Reporting: Community Right-To-Know)

Extremely hazardous substance: No

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