State of the Art Ingredients • Fast Friendly Service

Sodium Percarbonate

SECTION 1 :: PRODUCT IDENTIFICATION

Product Name: Sodium Percarbonate

REVISION DATE: 01/26/2007

SECTION 2 :: HAZARDS IDENTIFICATION

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 :: COMPOSITION/INFORMATION ON INGREDIENTS

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 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
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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

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 selfcontained
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.

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.

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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.
- 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 form heat and humidity sources.
- Keep away from reactive products (see section 10).
- Store in vented containers.

SECTION 8 :: EXPOSURE CONTROLS / 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.

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

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SECTION 9 :: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Free flowing white granular powder
Molecular Formula: 2Na2CO3.3H202
Bulk Density(g/e): 0.95 - 1.08
Active Oxygen: 13.5% up (Provox), 13.0% up (Provox C)
Water solubility(g/e): 140 (at 20 deg)
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.

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).

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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).

SECTION 13 :: DISPOSAL CONSIDERATIONS

- 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

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

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

SARA, Title Ill, Section 313
(40 CFR Part 372 Toxic chemical Release Reporting: Community Right-To-Know)
Extremely hazardous substance: No

SECTION 16 :: OTHER INFORMATION

Disclaimer

The information contained in this Certificate of Analysis and Material Safety Data Sheet are obtained from current and reliable sources. As the ordinary or otherwise use(s) of this product is outside the control of Ingredients To Die For, no representation or warranty, expressed or implied is made as to the effect(s) of such use(s) (including damage or injury), or the results obtained.

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