



# Safety Data Sheet



## Sodium Percarbonate

### 1. Product Identification

**Product Name:** Sodium Percarbonate

**Recommended Use:** Laboratory chemicals, Manufacture of substances

**Synonyms:** Hydrogen peroxide sodium carbonate adduct

**Supplier Information:**

Global Chemical Resources

1925 Nebraska Avenue

Toledo, OH 43607

Phone: 419-242-1004

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**Emergency Contact Information:**

24 Hour Chemical Emergency. Call CHEMTREC: 800-424-9300

### 2. Hazard(s) Identification

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Oxidizing solids (Category 2)

Acute toxicity, Oral (Category 4)

Serious eye damage (Category 1)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Contact with combustible material may cause fire. Harmful if swallowed. Risk of serious damage to eyes.

**Pictogram:**



**Signal Word:** Danger

**Hazard Statements:**

**H272** May intensify fire; oxidizer

**H302** Harmful if swallowed

**H318** Causes serious eye damage

**Precautionary Statements:**

**P220** Keep/Store away from clothing/ combustible materials  
**P280** Wear protective gloves/eye protection/ face protection  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
**Supplemental Hazard Statements:** None

### 3. Composition/Information on Ingredients

**Substances:**

**Synonym:** Hydrogen peroxide sodium carbonate adduct  
**Formula:**  $CNa_2O_3 \cdot 1.5H_2O_2$   
**Molecular Weight:** 157.01 g/mol

| Name                | CAS #      | % by Weight |
|---------------------|------------|-------------|
| Sodium Percarbonate | 15630-89-4 | 100         |

**Toxicological Data on Ingredients:** Sodium Percarbonate: ORAL (LD50): Acute: 2400 mg/kg [Rat]. 2200 mg/kg [Mouse].

### 4. First-Aid Measures

**Eye Contact:**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

**Skin Contact:**

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

**Serious Skin Contact:**

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

**Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation:** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

**Ingestion:**

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention. **Serious Ingestion:** Not available.

## 5. Fire-Fighting measures

### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **Special hazards arising from the substance or mixture**

Carbon oxides, Sodium oxides

### **Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

### **Further information**

Use water spray to cool unopened containers.

**Flammability of the Product:** Non-flammable.

**Auto-Ignition Temperature:** Not applicable.

**Flash Points:** Not applicable.

**Flammable Limits:** Not applicable.

**Products of Combustion:** Not available.

**Fire Hazards in Presence of Various Substances:** Not applicable.

### **Explosion Hazards in Presence of Various Substances:**

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

### **Special Remarks on Fire Hazards:**

Do not allow water to enter container because of violent reaction. Keep container tightly closed. Powerful oxidizing agent; may ignite oxidizable materials.

## 6. Accidental Release Measures

### **Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### **Methods and materials for containment and cleaning up**

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations. Keep in suitable, closed containers for disposal.

**Small Spill:**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.

**Large Spill:**

Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid.

## 7. Handling and Storage

**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. Normal measures for preventive fire protection.

**Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Oxidizing materials should be stored in a separate safety storage cabinet or room.

**Specific end uses:** no data available

## 8. Exposure Controls/Personal Protection

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment****Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. Physical and Chemical Properties

|   |  |
|---|--|
| <b>Appearance:</b>                      | Solid. (Crystals solid.)   |
| <b>Odor:</b>                            | Slight Odor  |
| <b>Odor Threshold:</b>                  | No Data Available  |
| <b>pH:</b>                              | 10 (1% soln/water)   |
| <b>Melting/Freezing Point:</b>          | No Data Available  |
| <b>Initial boiling Point and Range:</b> | No Data Available  |
| <b>Flash Point:</b>                     | No Data Available  |
| <b>Evaporation Rate:</b>                | No Data Available  |
| <b>Flammability:</b>                    | Not Flammable  |
| <b>Upper/Lower Flammability Limits:</b> | No Data Available  |
| <b>Vapor Pressure:</b>                  | No Data Available  |
| <b>Vapor Density:</b>                   | No Data Available  |
| <b>Relative Density:</b>                | No Data Available  |
| <b>Partition Coefficient:</b>           | No Data Available  |
| <b>Auto-Ignition Temperature:</b>       | No Data Available  |
| <b>Decomposition Temperature:</b>       | No Data Available  |
| <b>Viscosity:</b>                       | No Data Available  |
| <b>Solubility:</b>                      | Soluble in hot water. Partially soluble in cold water. Very slightly soluble in methanol. Insoluble in diethyl ether, n-octanol. |

## 10. Stability and Reactivity

|  |                        |
|--|------------------------|
| <b>Stability:</b>                      | The product is stable. |
| <b>Instability Temperature:</b>        | Not available.         |
| <b>Conditions of Instability:</b>      | Not available.         |
| <b>Special Remarks on Reactivity:</b>  | Not available.         |
| <b>Special Remarks on Corrosivity:</b> | Not available.         |
| <b>Polymerization:</b>                 | No                     |

**Incompatibility with various substances:** Highly reactive with reducing agents, acids. Reactive with organic materials, metals, moisture.

**Corrosivity:** Corrosive in presence of aluminum, of zinc, of copper. Slightly corrosive to corrosive in presence of steel. Non-corrosive in presence of glass.

## 11. Toxicological Information

### Acute toxicity

LD50 Oral - rat - 1.034 mg/kg

LD50 Dermal - **rabbit** - > 2.000 mg/kg

**Skin corrosion/irritation:** Skin - rabbit - Mild skin irritation

**Serious eye damage/eye irritation:** Eyes - rabbit - Severe eye irritation

**Respiratory or skin sensitization:** no data available

**Germ cell mutagenicity:** no data available

### Carcinogenicity

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity:** no data available

### Specific target organ toxicity

**single exposure:** no data available

**repeated exposure:** no data available

**Aspiration hazard** no data available

**Potential health effects** May be harmful if inhaled.

**Inhalation** May cause respiratory tract irritation.

**Ingestion** Harmful if swallowed.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

**Eyes** Causes eye burns.

### Signs and Symptoms of Exposure

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. Ecological Information

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

## 13. Disposal considerations

### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

## 14. Transportation Information

**Proper Shipping Name:** UN3378, Sodium Carbonate Peroxyhydrate, 5.1, PGII

**DOT Classification:** CLASS 5.1: Oxidizing material. UN3378 PG: II

**Special Provisions for Transport:** Not available.

## 15. Regulatory Information

### Federal and State Regulations:

New Jersey: Sodium percarbonate

TSCA 8(b) inventory: Sodium percarbonate

### Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

### Other Classifications:

### WHMIS (Canada):

CLASS C: Oxidizing material.

CLASS D-2B: Material causing other toxic effects (TOXIC).

### DSCL (EEC):

R38- Irritating to skin.

R41- Risk of serious damage to eyes.

### HMIS (U.S.A.):

**Health Hazard:** 2

**Fire Hazard:** 0

**Reactivity:** 2

**Personal Protection:** E

### National Fire Protection Association (U.S.A.):

**Health:** 2

**Flammability:** 0

**Reactivity:** 2

**Specific hazard:**

**Protective Equipment:**

Gloves, Lab coat, Dust respirator. Be sure to use an approved/certified respirator or equivalent.  
Wear appropriate respirator when ventilation is inadequate.  
Splash goggles.

**16.**

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