

Sodium Percarbonate MSDS

1. Product Name and Identification

Product Name: [Sodium Percarbonate](#)

Synonyms: Sodium Carbonate Peroxide, PCS, Solid Hydrogen Peroxide

CAS Number: 15630-89-4

Molecular Formula: $2\text{Na}_2\text{CO}_3 \cdot 3\text{H}_2\text{O}_2$

Manufacturer's Name: [Fill in as Applicable]

Emergency Contact: [Fill in Emergency Number]

2. Composition/Ingredients

- **Chemical Name:** Sodium Percarbonate
- **CAS Number:** 15630-89-4
- **Purity:** $\geq 99\%$
- **EC Number:** 239-707-6
- **Hazardous Components:** Decomposes to release oxygen which may increase fire risk.

3. Hazards Identification

Classification:

- Oxidizing solid (Category 3)
- Acute toxicity, oral (Category 4)
- Eye damage/irritation (Category 1)

Label Elements:

- **Signal Word:** Danger
- **Hazard Statements:**
 - May intensify fire; oxidizer.
 - Harmful if swallowed.
 - Causes serious eye damage.
- **Precautionary Statements:**
 - Keep away from heat/flammable materials.
 - Do not eat, drink, or smoke when using this product.
 - Wear eye protection and protective gloves/clothing.

Potential Health Effects:

- **Eye Contact:** Causes severe irritation and possible eye damage.
- **Skin Contact:** May cause irritation especially with prolonged exposure.
- **Inhalation:** Dust may irritate respiratory system.

- **Ingestion:** Harmful if swallowed; may cause irritation or burns to gastrointestinal tract.

4. First Aid Measures

Eyes: Rinse gently with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek immediate medical attention.

Skin: Wash thoroughly with soap and water. Remove contaminated clothing. If irritation persists, consult a physician.

Inhalation: Move to fresh air. If difficulty in breathing develops, seek medical attention immediately.

Ingestion: Rinse mouth with water. Do NOT induce vomiting. Seek immediate medical attention.

5. Handling and Storage

Handling:

- Handle only in well-ventilated areas.
- Avoid inhalation of dust and contact with skin or eyes.
- Keep away from heat, sparks, open flames, and flammable materials.

Storage:

- Store in a cool, dry, and well-ventilated location.
- Keep container tightly sealed when not in use.
- Avoid temperature extremes and direct sunlight.

6. Exposure Controls/Personal Protection

Exposure Limits: No established limits for Sodium Percarbonate, but minimize exposure.

Engineering Controls:

- Ensure adequate ventilation, especially in confined spaces.

Personal Protective Equipment (PPE):

- **Eye Protection:** Safety goggles or face shield.
- **Skin Protection:** Resistant gloves and protective clothing to minimize exposure.
- **Respiratory Protection:** Use a dust mask or respirator in high-dust environments.
- **Hygiene Measures:** Wash hands thoroughly after handling. Avoid eating, drinking, or smoking while handling this product.

7. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Melting Point:** Decomposes without melting
- **Boiling Point:** Not applicable
- **Solubility in Water:** Soluble (> 140 g/L at 20°C)
- **pH (3% solution):** ~10-11
- **Density:** Approximately 1.2 g/cm³
- **Decomposition Temperature:** 50°C (releases oxygen)

8. Stability and Reactivity

Stability: Stable under recommended conditions of use and storage.

Hazardous Reactions: Violent reactions may occur if exposed to heat or mixed with incompatible materials.

Conditions to Avoid: Heat, moisture, friction, and shock.

Incompatible Materials: Acids, organic materials, reducing agents, and flammable substances.

Hazardous Decomposition Products: Oxygen, sodium carbonate, and water vapor.

9. Toxicological Information

Acute Toxicity:

- **Oral (LD50):** ~1034 mg/kg (rat)
- **Dermal:** Not classified as acutely toxic.

Chronic Toxicity: Long-term exposure to dust may cause irritation of the respiratory system.

Routes of Exposure: Eye and skin contact, inhalation, or ingestion.

Symptoms of Overexposure:

- Eye and skin irritation.
- Respiratory irritation from inhalation of dust.
- Gastrointestinal irritation if ingested.

10. Disposal Considerations

Waste Disposal:

- Dispose of product in accordance with local, regional, and national regulations.
- Do not release directly into drains, water systems, or soil.

Empty Containers: Ensure complete cleaning before disposal. Dispose of in line with regulations for recycling or waste management.
