

SODIUM PERCARBONATE

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SECTION 1: IDENTIFICATION

1.1 GHS Product identifier:

SODIUM PERCARBONATE

Synonyms: Sodium carbonate peroxyhydrate; PCS; Sodium carbonate perhydrate (2Na₂CO₃·3H₂O₂)

CAS: 15630-89-4

Other means of identification:

Not relevant

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses: Oxygen-releasing bleaching agent in detergent/laundry formulations, household and institutional cleaning products, stain removers, oxidizing component in textile bleaching. For industrial user only.

Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Supplier's details:

SURAJ CHEMICALS

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1.4 Emergency phone number:

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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GHS:

Classification of this product has been carried out in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Ox. Sol. 3	Oxidizing solids, Category 3, H272
Skin Irrit. 2	Skin irritation, Category 2, H315
Eye Dam. 1	Serious eye damage, Category 1, H318
STOT SE 3	Respiratory tract irritation, single exposure, Category 3, H335

2.2 GHS label elements, including precautionary statements:

GHS: Danger

Hazard statements:

H272 – May intensify fire; oxidizer.

H315 – Causes skin irritation.

H318 – Causes serious eye damage.

H335 – May cause respiratory irritation.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

P220: Keep away from clothing and other combustible materials.

P221: Take any precaution to avoid mixing with combustibles.

P261: Avoid breathing dust.

P280: Wear protective gloves/protective clothing/eye 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.

P310: Immediately call a POISON CENTER or doctor/physician.

P370+P378: In case of fire: Use water spray/fog to extinguish.

P501: Dispose of contents/container in accordance with local/national regulations.

2.3 Other hazards which do not result in classification:

Decomposes on contact with moisture, heat or contamination, releasing oxygen and may generate heat. Not a PBT/vPvB substance per current assessment criteria.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical description: Sodium percarbonate (sodium carbonate peroxyhydrate)

In accordance with Annex 4.3.3 of the GHS, the product contains:

Identification	Chemical Name / Classification	Concentration
CAS: 15630-89-4	Sodium percarbonate — Ox. Sol. 3: H272; Skin Irrit. 2: H315; Eye Dam. 1: H318; STOT SE 3: H335 – Danger	≥98%

To obtain more information on the hazards of the substances, consult sections 11, 12 and 16.

3.2 Mixtures:

Non-applicable (supplied as a technical-grade single substance; coated/stabilized grades available on request – see current specification sheet).

SECTION 4: FIRST AID MEASURES

4.1 Description of necessary first-aid measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

Remove the person affected to fresh air and keep at rest. Seek medical attention if symptoms persist.

By skin contact:

Remove contaminated clothing. Wash skin thoroughly with plenty of water. Seek medical attention if irritation persists.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes, holding eyelids open. Remove contact lenses if present and easy to do. Seek immediate medical attention.

By ingestion/aspiration:

Rinse mouth with water. Do NOT induce vomiting. Give water to drink if conscious. Seek immediate medical attention.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Treat symptomatically. No specific antidote known.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Suitable: Water spray/fog in large quantities.

Unsuitable: Dry chemical powder, CO₂ and foam are not effective in cooling or controlling a self-sustained oxidizer fire.

5.2 Specific hazards arising from the chemical:

Non-combustible but a moderate oxidizer; intensifies fire. Decomposes with heat, moisture or contamination releasing oxygen gas, which supports combustion, and may generate heat/pressure build-up in closed containers.

5.3 Special protective actions for fire-fighters:

Evacuate non-essential personnel. Wear SCBA and full protective clothing. Cool containers with water spray. Prevent fire-fighting run-off from entering drains/watercourses.

Additional provisions:

Keep the product away from reducing agents and combustible materials during fire-fighting.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Avoid raising dust. Use PPE per section 8. Keep away from combustibles and reducing agents.

For emergency responders:

Wear full protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Prevent entry into drains, watercourses and soil.

6.3 Methods and materials for containment and cleaning up:

Sweep up carefully with clean, dry tools and place in a clean, dry, labelled container. Do not use combustible absorbents. Flush residual area with water.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A. General precautions for safe use:

Avoid generating dust. Keep away from heat, moisture, acids, reducing agents, heavy-metal salts and combustible/organic materials, all of which accelerate decomposition.

B. Technical recommendations for the prevention of fires and explosions:

Store away from combustibles and reducing agents. Keep containers tightly closed and dry.

C. Technical recommendations on general occupational hygiene:

Do not eat, drink or smoke while handling. Wash hands after use.

D. Technical recommendations to prevent environmental risks:

Avoid release to drains/watercourses. See section 6.

7.2 Conditions for safe storage, including any incompatibilities:

A. Specific storage requirements:

Minimum Temp.	5°C
Maximum Temp.	25°C
Maximum time	12 Months (unopened, original packaging)

B. General conditions for storage:

Store in a cool, dry, well-ventilated place away from direct sunlight, moisture and incompatible materials. Keep containers tightly closed.

7.3 Specific end use(s):

Except for the instructions already specified, it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters:

No specific occupational exposure limit is established for sodium percarbonate in India.

Identification	Occupational Exposure Limit Type	Value
Sodium percarbonate CAS: 15630-89-4	Time Weighted average concentration (8 hrs)	Typical value – refer to current specification sheet

8.2 Appropriate engineering controls:

Use local exhaust/dust extraction when handling powder/granules to minimize airborne dust, supplemented by PPE.

B. Respiratory protection:

Dust mask/respirator with P2 (or equivalent) particulate filter where dust is generated.

C. Specific protection for the hands:

Chemical-resistant gloves (nitrile or PVC).

D. Eye and face protection:

Chemical safety goggles when handling powder/granules or solutions.

E. Bodily protection:

Protective coveralls and closed footwear.

F. Additional emergency measures:

Emergency shower and eyewash stations should be available.

Environmental exposure controls:

Avoid environmental release of both product and container.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	
Physical state at 20°C	Solid (crystalline granules/powder)
Appearance	White solid
Color	White
Odor	Odorless, or slight oxidant odor
Odour threshold	Not relevant *
Volatility	
Boiling point at atmospheric pressure	Non-applicable (solid; decomposes before boiling)
Vapour pressure at 20°C / 50°C	Not relevant *
Evaporation rate at 20°C	Not relevant *
Product Description	
Density / Relative density at 20°C	Typical value – refer to current specification sheet
Dynamic / Kinematic viscosity	Non-applicable (solid)
Concentration (active oxygen)	~13% typical (as available oxygen)
pH (1% aqueous solution)	10.0 – 10.8 (typical)
Vapour density at 20°C	Not relevant *
Partition coefficient n-octanol/water 20°C	Not relevant *
Solubility in water at 20°C	Soluble, approx. 120–150 g/L
Decomposition temperature	~100–130°C (accelerates above this)
Melting point/freezing point	Decomposes before melting
Flammability	
Flash Point	Non-applicable (solid oxidizer)
Flammability (solid, gas)	Non-flammable; oxidizer
Autoignition temperature	Not relevant *
Lower / Upper flammability limit	Not relevant *
Particle Characteristics	
Median equivalent diameter	Typical value – refer to current specification sheet

* Not relevant due to the nature of the product, not providing information on the properties of its hazards.

9.2 Other information:

Explosive properties	Not an explosive; may intensify fire
Oxidising properties	H272 – May intensify fire; oxidizer
Corrosive to metals	Not relevant *
Heat of combustion	Not relevant *
Surface tension at 20°C	Not relevant *
Refraction index	Not relevant *

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:**
Decomposes exothermically in contact with moisture, heat, acids, heavy-metal salts (e.g. iron, copper, manganese) or reducing/organic materials, releasing oxygen and may cause fire with combustibles.
- 10.2 Chemical stability:**
Stable under recommended storage conditions (cool, dry, away from incompatible materials). Hygroscopic.
- 10.3 Possibility of hazardous reactions:**
Contamination or heating can cause self-accelerating decomposition releasing oxygen; pressure build-up possible in confined/sealed containers.
- 10.4 Conditions to avoid:**

Shock/Friction	Contact with Air	Increase in Temperature	Sunlight	Humidity
Not applicable	Not applicable	Accelerates decomposition	Avoid direct exposure	Avoid contact with moisture

10.5 Incompatible materials:

Acids	Heavy Metal Salts	Reducing Materials	Combustible / Organic Materials	Moisture
Avoid contact	Avoid contact – catalyses decomposition	Avoid direct contact	Avoid contact – fire risk	Avoid contact

- 10.6 Hazardous decomposition products:**
Oxygen gas and sodium carbonate; heat on rapid/uncontrolled decomposition.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects:**
In case of exposure that is repetitive, prolonged, or at concentrations higher than the recommended occupational exposure limits, adverse health effects may result depending on the means of exposure:
- A. Ingestion (acute effect):**
May cause irritation of the mouth, throat and gastrointestinal tract; nausea and vomiting. Acute toxicity classification criteria are not met based on available data.
- B. Inhalation (acute effect):**
May cause respiratory tract irritation.
- C. Contact with skin and eyes (acute effect):**
Causes skin irritation. Causes serious eye damage.
- D. CMR effects (carcinogenicity, mutagenicity, reproductive toxicity):**
Classification criteria are not met based on available data.
- E. Sensitizing effects:**
Classification criteria for respiratory or skin sensitisation are not met based on available data.

F. Specific target organ toxicity (STOT) – single exposure:

May cause respiratory irritation (H335).

G. Specific target organ toxicity (STOT) – repeated exposure:

Classification criteria are not met based on available data.

H. Aspiration hazard:

Classification criteria are not met based on available data.

Product-specific toxicological information:

Identification	Acute Toxicity	Genus
Sodium percarbonate CAS: 15630-89-4	LD50 oral: 1,034 mg/kg	Rat
	LD50 dermal: >2,000 mg/kg	Rabbit

SECTION 12: ECOLOGICAL INFORMATION

Not classified as hazardous to the aquatic environment; however, decomposes to release oxygen/hydrogen peroxide which is toxic to aquatic organisms in concentrated local release.

12.1 Toxicity:

Identification	Acute Toxicity	Species	Genus
Sodium percarbonate CAS: 15630-89-4	LC50: 134 mg/L (96h)	Oncorhynchus mykiss	Fish
	EC50: 152 mg/L (48h)	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Rapidly decomposes in water/soil to sodium carbonate, water and oxygen; not persistent.

12.3 Bioaccumulative potential:

Not expected to bioaccumulate.

12.4 Mobility in soil:

Koc	Henry	Dry Soil	Moist Soil
Not relevant	Not relevant	No	No

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

Dissolve small quantities in large volumes of water and allow to decompose fully before disposal in accordance with local regulations. Do not mix with acids, reducing agents or combustible waste. For packaging: use dedicated, clean, dry containers.
Refer to national and local regulations on waste management.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land (ADR 2023 / RID 2023):

14.1 UN number	UN3378
14.2 UN proper shipping name	PEROXIDES, INORGANIC, N.O.S. (SODIUM PERCARBONATE)
14.3 Transport hazard class(es)	5.1
14.4 Packing group	III
14.5 Environmental hazard	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by sea (IMDG 41-22):

14.1 UN number	UN3378
14.2 UN proper shipping name	PEROXIDES, INORGANIC, N.O.S. (SODIUM PERCARBONATE)
14.3 Transport hazard class(es)	5.1
14.4 Packing group	III
14.5 Marine pollutant	No
14.6 Special precautions for user	EmS Codes: F-A, S-Q
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

Transport of dangerous goods by air (IATA/ICAO 2024):

14.1 UN number	UN3378
14.2 UN proper shipping name	PEROXIDES, INORGANIC, N.O.S. (SODIUM PERCARBONATE)
14.3 Transport hazard class(es)	5.1
14.4 Packing group	III
14.5 Environmental hazard	No
14.6 Special precautions for user	Physico-chemical properties: see section 9
14.7 Transport in bulk (Annex II MARPOL 73/78, IBC Code)	Not relevant

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of local circumstances, in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Annex 4 – Guidance on the preparation of Safety Data Sheets of the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Texts of the legislative phrases mentioned in sections 2 and 3:

- H272: May intensify fire; oxidizer.
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H335: May cause respiratory irritation.

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3.

Advice related to training:

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

United Nations GHS (Rev. 8); European Chemicals Agency (ECHA) classification and labelling inventory; publicly available chemical supplier safety data sheets for this CAS number.

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road | IMDG: International maritime dangerous goods code | IATA: International Air Transport Association | ICAO: International Civil Aviation Organisation | LD50: Lethal Dose 50 | LC50: Lethal Concentration 50 | EC50: Effective Concentration 50

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product; it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within Suraj Chemicals' awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

END OF SAFETY DATA SHEET