



SAFETY DATA SHEET

SODIUM PERBORATE (MONOHYDRATE)

CAS No.: 7632-04-4

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Sodium Perborate (Monohydrate)
CAS Number	7632-04-4
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Danger
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HAZARD CLASSIFICATION

- Oxidizing solid - Category 3
- Acute toxicity, oral - Category 4
- Serious eye damage - Category 1
- Germ cell mutagenicity - Category 2
- Reproductive toxicity - Category 1B
- Specific target organ toxicity, single exposure - Category 3 (respiratory irritation)

HAZARD STATEMENTS

- H272 - May intensify fire; oxidizer
- H302 - Harmful if swallowed
- H318 - Causes serious eye damage
- H341 - Suspected of causing genetic defects
- H360FD - May damage fertility; may damage the unborn child
- H335 - May cause respiratory irritation

PRECAUTIONARY STATEMENTS

- P201 - Obtain special instructions before use
- P220 - Keep/store away from clothing and combustible materials
- P260 - Do not breathe dust
- P264 - Wash exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- 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; continue rinsing
- P310 - Immediately call a POISON CENTER or doctor
- P405 - Store locked up

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Sodium Perborate (Monohydrate)
CAS Number	7632-04-4
Physical State	Solid
Appearance / Odour	White, odorless crystalline powder or granules.

4. FIRST-AID MEASURES

Eye Contact	Rinse cautiously with water for several minutes; remove contact lenses if present; continue rinsing and get immediate medical attention.
Skin Contact	Wash off with plenty of water; remove contaminated clothing; seek medical attention if irritation persists.
Inhalation	Remove to fresh air; if dust inhalation causes coughing or respiratory irritation, seek medical attention.
Ingestion	Rinse mouth with water; do NOT induce vomiting; give water to drink if conscious; seek immediate medical attention.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Flood with large amounts of water; the product itself is non-combustible but is an oxidizer that can intensify a fire involving other combustible materials.
Unsuitable Extinguishing Media	Avoid dry chemical or CO2 alone, which may not adequately address the oxidizer hazard in a mixed-material fire.
Special Hazards	Strong oxidizer that can intensify fire and may release oxygen on decomposition, supporting combustion of nearby materials; thermal decomposition releases oxygen and boron oxide fumes; wear full PPE and self-contained breathing apparatus for large fires.

6. ACCIDENTAL RELEASE MEASURES

Measures	Avoid generating dust, keep away from combustible materials and reducing agents, sweep up avoiding contact, and collect in a suitable container for disposal; flush residual area with water.
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7. HANDLING AND STORAGE

Handling Precautions	Avoid contact with combustible materials, organic substances and reducing agents; avoid generating and inhaling dust; use with adequate ventilation; wear appropriate PPE given its reproductive toxicity classification.
Storage Conditions	Store in a cool, dry, well-ventilated place away from combustibles, organics, reducing agents and heat sources, in tightly closed containers; store locked up/restricted access due to reproductive toxicity classification.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	No specific universally-established occupational exposure limit for sodium perborate itself; general guidance treats it similarly to peroxide/borate dusts (~2 mg/m3 as boron oxide equivalent has been referenced in some jurisdictions); use a dust mask/respirator, chemical splash goggles and gloves.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance / Odour	White, odorless crystalline powder or granules.
Boiling Point	Not applicable
Melting Point	Decomposes on heating, releasing oxygen (typically above ~60 C, accelerating around 100 C+)
Flash Point	Not applicable (non-combustible oxidizing solid)
Density / Specific Gravity	~2.2 g/cm3 (true density); bulk density ~0.6-0.9 g/cm3
Water Solubility	~25-30 g/L at 20 C; slowly hydrolyzes/decomposes in aqueous solution releasing hydrogen peroxide
pH Value	~10-10.5 (1% aqueous solution, alkaline)

10. STABILITY AND REACTIVITY

Stability	Stable when dry and properly stored; decomposes on heating or in aqueous solution to release hydrogen peroxide/oxygen and sodium borate.
Incompatible Materials	Combustible and organic materials, reducing agents, strong acids, and metals.
Hazardous Decomposition	Oxygen gas and boron oxide fumes on strong heating or decomposition.

11. TOXICOLOGICAL INFORMATION

Summary	Harmful if swallowed, causing serious eye damage; a boron-containing compound classified as a reproductive toxicant (Category 1B, may damage fertility and the unborn child) based on animal developmental/reproductive toxicity studies of borates; suspected mutagen; dust may cause respiratory irritation; not classified as a confirmed human carcinogen.
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12. ECOLOGICAL INFORMATION

Summary	Decomposes in the environment to hydrogen peroxide/oxygen and borate; moderate aquatic toxicity has been reported for borate species at elevated concentrations; not expected to bioaccumulate significantly.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of in accordance with local regulations through a licensed waste management facility; avoid mixing with combustible or reducing waste materials.
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14. TRANSPORT INFORMATION

UN Number	UN1466 (Sodium perborate, anhydrous) — verify hydrate-specific classification with current regulations
Transport Hazard Class	Class 5.1 (Oxidizer)
Packing Group	III

15. REGULATORY INFORMATION

Notes	Widely used bleaching agent in detergents and cosmetics; classified as an oxidizer and reproductive toxicant (borate-related) under GHS, OSHA HCS and EU CLP (subject to REACH restrictions on borates in consumer products above certain concentrations); regulated for transport under IMDG/ADR/IATA, Class 5.1, Packing Group III.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

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+91 - 9840284032, 9176135357
+91 - 44 - 25393652, 42130281
sales@surajchemicals.com
surajchemicals@yahoo.com

No 92, Govindappa Naicken Street
Shiva Complex, Chennai - 600001
www.surajchemicals.com
GST NO : 33ACEPV8190L1ZZ

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