

Oxy Bleach

Sodium Percarbonate · Sodium Percarbonate · with Active Oxygen Release, pH 10–11 + Colour-Safe Formula

KEY BENEFITS

— Active oxygen stain removal	sodium percarbonate releases hydrogen peroxide in water — breaks down protein, food, and organic stains through oxidation without the colour-destructive chemistry of chlorine bleach.
— Colour-safe	non-chlorine formulation means no dye damage, no fabric degradation, and no colour stripping across mixed institutional linen loads containing coloured uniforms and patterned items.
— pH 10–11 alkaline activation	optimises hydrogen peroxide release — effective stain treatment even in cold-water wash cycles without hot water activation.
— 10–20 gm per load	precise, low-dose stain treatment for institutional laundry cost control.
— Standard wash addition	add 10–20 gm to the washing machine drum with linen before the main wash cycle. Alternatively, add to the detergent compartment.
— Combination use	can be used alongside Alle's ClinX Labs Laundry Liquid Detergent in the same wash cycle for combined cleaning and stain treatment.

AT A GLANCE

pH	10.0–11.0 (alkaline activation)
Dose per load	10–20 gm
Pack size	5 Litres (by volume) / 5 kg (by weight)
Shelf life	18 months from date of manufacture, in sealed container
Safe on	Coloured and white cotton, poly-cotton, synthetics, institutional linen

HOW TO USE

- 1 Standard wash addition**
add 10–20 gm to the washing machine drum with linen before the main wash cycle. Alternatively, add to the detergent compartment.
- 2 Pre-soak (heavily stained)**
dissolve 20 gm per 5 litres of warm water (40°C+). Soak stained items for 30–60 minutes before the standard wash cycle.
- 3 Temperature**
most effective above 30°C. For cold-water washing, increase dose to 20 gm or use warm pre-soak to initiate hydrogen peroxide release before the cold wash.
- 4 Combination use**
can be used alongside Alle's ClinX Labs Laundry Liquid Detergent in the same wash cycle for combined cleaning and stain treatment.
- 5 Exclusions**
do not use on silk, wool, or cashmere — use Alle's ClinX Labs Woollen Wash for these fabric types.

WHY IT WORKS

How does oxygen bleaching work, and why is it safe for colours when chlorine bleach is not? Sodium percarbonate ($2\text{Na}_2\text{CO}_3 \cdot 3\text{H}_2\text{O}_2$) dissolves in water to release sodium carbonate and hydrogen peroxide. The hydrogen peroxide in alkaline solution decomposes to release hydroperoxyl anions (HOO^-) — the active oxidising species responsible for stain breakdown. These species react with the chromophore groups (the molecular structures responsible for colour) of organic stain molecules — blood haem groups, food pigments, wine tannins — converting them to colourless oxidation products. The stain's colour is destroyed without removing the stain molecule from the fabric. Chlorine bleach operates through a fundamentally different mechanism: sodium hypochlorite releases hypochlorous acid (HOCl), which chlorinates organic molecules rather than oxidising them. This halogenation reaction is far less selective than oxidation — it attacks the chromophore groups of textile dyes with comparable efficiency to those of stain molecules, causing colour fading and stripping. It also reacts with the protein components of natural fibres, progressively degrading the keratin in wool and the cellulose structure of cotton under repeated application. The colour-safety of oxygen bleach is therefore not a marketing claim but a consequence of the chemistry: the hydroperoxyl anion is a selective oxidant with insufficient reactivity to attack the sulphonate and azo dye structures used in modern textile dyeing, while being highly reactive with the simpler chromophore groups in food, blood, and organic stains. This selectivity makes oxygen bleach the appropriate stain treatment specification for mixed institutional linen loads containing coloured and patterned items.

WHAT YOU GET FROM ONE PACK

15 gm average dose.

One 5-litre pack. 330+ stain treatment cycles. At 15 gm average dose per load, a single 5L (5,000 gm) pack delivers approximately 333 complete wash treatments. For a hospital laundry running 50 stain-treatment loads per week, one pack covers approximately 6–7 weeks of stain management protocol. The elimination of chlorine bleach from the laundry programme reduces chemical handling risk, removes colour damage liability from mixed linen loads, and simplifies the COSHH documentation for laundry chemical management.

FULL PRODUCT SPECIFICATIONS

Active system	Sodium percarbonate — active oxygen release bleaching
Active release	Hydrogen peroxide (H_2O_2) in aqueous solution
pH	10.0–11.0 (alkaline activation)
Specific gravity	Powder — not applicable
Formulation type	Free-flowing powder concentrate
Appearance	White granular powder
Dose per load	10–20 gm
Effective temperature	30°C and above (increase dose for cold water)
Safe on	Coloured and white cotton, poly-cotton, synthetics, institutional linen
Avoid on	Silk, wool, cashmere, leather
PPE	Gloves recommended for powder handling
Shelf life	18 months from date of manufacture, in sealed container
Pack size	5 Litres (by volume) / 5 kg (by weight)
MSDS / TDS	Available on request

CAUTION & STORAGE

Handle with care.

For professional and institutional use. Oxidising agent. Keep away from combustible materials, reducing agents, and acids — contact with incompatible materials can cause fire or release of oxygen. Avoid inhalation of powder dust during dispensing — use in ventilated areas. In case of eye contact, rinse immediately with water for 15 minutes. Do not ingest. Keep out of reach of children. Store in original sealed container in a cool, dry location below 30°C, away from moisture, heat sources, and incompatible chemicals. Exposure to moisture in storage causes premature oxygen release and product degradation — keep container tightly sealed. Do not store in metal containers. Shelf life 18 months from manufacture date, in sealed storage.

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Alle's ClinX Labs · allesclinx.com · care@allesclinx.com

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BEFORE YOU START — PPE REQUIRED

- ✓ Chemical-resistant gloves (nitrile)
- ✓ Safety goggles / eye protection

QUICK REFERENCE

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HAZARD ! MODERATE

DO

- ✓ For professional and institutional use.
- ✓ Keep away from combustible materials, reducing agents, and acids — contact with incompatible materials can cause fire or release of oxygen.
- ✓ In case of eye contact, rinse immediately with water for 15 minutes.
- ✓ Store in original sealed container in a cool, dry location below 30°C, away from moisture, heat sources, and incompatible chemicals.

DON'T

- ✗ Avoid inhalation of powder dust during dispensing — use in ventilated areas.
- ✗ Do not ingest.
- ✗ Keep out of reach of children.
- ✗ Do not store in metal containers.

Emergency / questions: care@allesclinx.com · allesclinx.com · National Poison Control (India): 1800-116-117