

Precot® OxyBrite

Peroxide Activated Cotton Brightening Auxiliary

Precot® OxyBrite is a specially developed peroxide activation and cotton brightening auxiliary designed for polyester, and polyester-cotton processing. The product enhances the efficiency of hydrogen peroxide, improves cotton brightness and assists in the removal of natural impurities, resulting in cleaner and brighter fabrics.

The product is particularly effective in polyester/poly-cotton dyeing processes where improved cotton background whiteness is desired without resorting to aggressive alkaline bleaching conditions.

Typical Properties

Type	Non-ionic
Composition	Proprietary blend
Appearance	Clear transparent liquid
Solubility	Miscible in water
Compatibility	Compatible with hydrogen peroxide, disperse dyes, anionic and non-ionic auxiliaries

Advantages

- Improves cotton brightness and whiteness
- Enhances peroxide efficiency during processing
- Promotes removal of natural cotton impurities
- Produces cleaner and brighter background shades
- Helps reduce yellowing tendency
- Suitable for low-alkali bleaching systems
- Compatible with polyester HT dyeing operations
- Low foaming and easy to handle
- Completely water soluble

Features

- Enhances utilisation of hydrogen peroxide during processing
- Assists in improving cotton background cleanliness
- Provides hardness control and metal ion management
- Supports brighter light and pastel shades
- Suitable for polyester, polyester-cotton and cotton processing
- Can be used in one-bath polyester/poly-cotton dyeing systems
- Compatible with commonly used textile auxiliaries

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Application

General

Substrate	Polyester and Polyester-Cotton Fabrics
Application Method	Exhaust Process
Dissolving Method	Add directly to the processing bath with normal agitation

Guide recipes

The optimum dosage of Precot® OxyBrite depends on the substrate, fabric construction, cotton content, desired whiteness level, processing equipment, and operating conditions. The following guide recipes are intended as starting recommendations and should be optimized through mill trials to achieve the desired performance.

Poly-Cotton Processing

For improving cotton background brightness and enhancing peroxide efficiency during polyester or polyester-cotton dyeing operations:

Precot® OxyBrite	0.5 – 1.0 % OWF
Hydrogen Peroxide	As required
Operating pH	4.0 – 5.0
Temperature	120 – 130°C

This application assists in improving cotton cleanliness, reducing dullness caused by natural impurities, and producing brighter background shades in polyester-cotton blends.

Application Notes

- Add Precot® OxyBrite to the dye bath or treatment bath after filling with water and before the addition of hydrogen peroxide.
- Ensure adequate circulation and mixing throughout the process.
- Maintain the recommended pH range for optimum performance.
- Conduct laboratory evaluations before bulk production to establish the most suitable operating conditions.
- Compatibility trials are recommended when used with specialty auxiliaries or dye systems.
- For best results, follow standard textile processing practices and maintain proper control of water quality and metal ion contamination.

Oeko-Tex

Precot® OxyBrite meets all regulations of Oeko-Tex Standard 100.

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After Sales Services

PCPL provides technical assistance and suggest particular product and its dosage, in accordance with the metallurgy, scale and plant operating conditions.

Handling, Storage & Transportation

Use proper personal protective equipment like mask, rubber gloves, apron, safety goggles, rubber boots, etc. Avoid contact with skin, eyes & clothes. In case of contact, wash with water & seek medical advice

Storage stability : At least 12 months.

Storage and transport : Storage and transport NOT UNDER 10°C and NOT ABOVE 40 °C.

Premia Chemicals Private Limited

For Technical Assistance and Queries, mail us at: info@premiachem.in; sales@premiachem.in

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1. Product & Company Identification:

Date of preparation: 1st January, 2024

Product Name: Precot® OxyBrite

Recommended use of the chemical and restriction on use

Recommended use* Peroxide Activated Cotton Brightening Auxiliary

Suitable for use in industrial sector Chemical & Textile Industry

The 'recommended use' identified for this product is provided solely to comply with a US Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement

Details of the supplier of the product/Manufacturer: Premia Chemicals Private Limited

Emergency Response Information: +919814955574

Other Means of Identification:

Synonyms: Proprietary Blend

2. Composition/Information on Ingredients:

According to regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Composition: Proprietary Blend

3. Hazards Identification:

GHS Classification

- Physical Hazards:
- No health hazards according to OSHA/GHS criteria
- Health Hazards:
- No health hazards according to OSHA/GHS criteria
- Environmental Hazards:
- No environmental hazards according to OSHA/GHS Criteria.

GHS label Elements, including precautionary statements

- Pictogram: NA

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- Signal word: NA
- Hazard Statements: NA
- Precautionary Statements (Prevention): NA
- Precautionary Statement (Response): NA
- Precautionary Statements (Disposal): NA
- Hazards not otherwise classified

Labeling of special preparations (GHS): NA

The following percentage of the mixture consists of the component (s) with unknown hazards regarding the toxicity: NA

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According to regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

- Emergency Overview

CAUTION:

May cause eye, skin and respiratory tract irritation.

Ingestion may cause Gastric disturbances.

Use with local exhaust ventilation.

Wear a NIOSH – certified (or equivalent) organic vapor/ particular respirator.

Wear NIOSH – certified chemical goggles.

Wear protective clothing.

Wear chemical resistant protective gloves.

Eye wash fountains and safety showers must be easily accessible.

NO PARTICULAR HAZARD KNOWN.

4. First Aid Measures:

Descriptive first aid measures:

- General advice: Remove contaminated clothing.
- Inhaled: If difficulties occur after vapours/ aerosol has been inhaled, move to fresh air and seek medical attention.
- Skin contact: Wash affected areas thoroughly with soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.

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- Eye contact: Rinse eyes for 15 minutes under running water with eyelids wide open.
- Ingestion: Rinse mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed.

- Symptoms: No significant symptoms are expected
- Indication of any immediate medical attention and special treatment needed

Note to Physician:

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-fighting methods:

- Suitable Extinguishing Media: Water spray, dry Powder or foam.
- Unsuitable Extinguishing Media: Water jet
- Protective Equipment for Fire - fighting: Fire fighters should be equipped with self-contained breathing apparatus and turn out gear.
- Additional Information: Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures:

- Personal Precautions

Use personal protective equipment. Information regarding personal protective equipment see section 8.

- Environmental Precautions

Do not discharge into drains/ surface water/ ground water.

- Methods and material for containment and cleaning -up

Dispose of absorbed material in accordance with regulations.

Small spill and leak: Dilute with water and mop up or absorb with absorbent material (e.g. sand, silica gel acid binder, general purpose binder, sawdust). Finish cleaning by spreading water on contaminated surface.

Large spill and leak: Pick up with suitable adsorbent material or vacuum up spilled product. Place into suitable container for disposal. Finish cleaning by spreading water on contaminated surface.

7. Handling and Storage:

- Precautions of safe handling

No special measures are necessary provided the product is handled in accordance with good industrial hygiene and safety practice.

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Protection against fire and explosion: No special precautions are necessary.

- Conditions for safe storage, including any incompatibilities

Segregate from acids and bases. Segregate from oxidizing agents.

- Other Information on storage conditions:

Keep container tightly closed and dry. Store in a cool and well-ventilated area.

8. Exposure Controls and Personal Protection:

- Advise on system design:

Provide local exhaust ventilation to control vapours/ mists.

- Personal Protective Equipment
- Respiratory Protection: Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/ dust are formed.
- Hand protection: Chemical resistance protective gloves.
- Eye protection: Tightly fitting safety goggles (chemical goggles) and face shield.
- General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Wear protective clothing as necessary to minimize contact.

9. Physical and Chemical Properties:

Property	Specification
Form	Liquid
Appearance	Clear Transparent Liquid
Colour	Colourless to Pale Yellow
Odour	Mild Characteristic
Odour Threshold	N/D
pH (1% Solution)	2.0 – 3.0
Specific Gravity @ 25°C	1.04 – 1.08
Refractometer Reading	22 – 25
Solubility in Water	Completely Miscible

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Boiling Point	>100°C
Vapour Pressure	N/D
Vapour Density (Air = 1)	N/D
Freezing Point	N/D
Decomposition Temperature	N/D
Flash Point	N/A (Water Based Product)
Auto Ignition Temperature	N/D
Flammability	Non-Flammable

10. Stability and Reactivity:

- **Hazardous Reactions:** No hazardous reactions when stored and handled according to the instructions. The product is chemically stable.
- **Decomposition Products:** Hazardous decomposition Products: No hazardous decomposition products if stored and handled as prescribed or indicated.
- **Thermal Decomposition:** No data available.
- **Corrosion of metals:** No corrosion effect on metals.

11. Toxicological Information:

Primary routes exposure:

Routes of entry for solids and liquids are ingestion and inhalation but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

- **Acute Toxicity**

Oral:

Test Type:	LD50
Species:	Rat
Result:	Non - irritant

- **Irritation/ Corrosion**

Assessment of irritating effects: Skin contact causes irritation.

Skin

Species: Rabbit

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Result: Moderately Irritating

Eye

Species: Rabbit

Result: Non - irritant

- Chronic Toxicity/ Effects:

Repeated dose toxicity

Assessment of repeated dose toxicity: No known chronic effects.

The product has not been tested. The statement has been derived from products of a similar structure or composition.

- Symptoms of exposure :

The most important known symptoms and effects are described in the labelling (see section 2) and / or in section 11.

Medical conditions aggravated by overexposure. Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/ product.

12. Ecological Information:

- Toxicity

Species: Fish

Test type: LC50

Result: Non - irritant

- Aquatic invertebrates

Species: Daphnia magna

Test type: EC50

Result: Non - irritant

- Microorganism/ effect on activated sludge

Toxicity to microorganisms

Test type: DEV-L2

Result: Non - irritant

- Persistence and degradability

Elimination information

More than 60% CO₂ formation relative to the theoretical value (28 d) (OECD 301B; ISO 9439; 92/69/EEC, C.4-C). Readily degradable.

- Additional Information

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Other Ecotoxicological advice:

Do not release untreated waste into natural waters. The product has been tested. The statement has been derived from substance/ products of a similar structure or composition.

13. Disposal considerations:

- Waste Disposal of Substance

Dispose of in accordance with national, state, and local regulations. It is the waste generators responsibility to determine if a particular waste is hazardous under RCRA.

- Container Disposal

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transportation Information:

- Land transport

USDOT: Not classified as a dangerous good under transport regulations.

- Sea Transport

IMDG: Not classified as a dangerous good under transport regulations.

- Air Transport

IATA/ I CAD: Not classified as a dangerous good under transport regulations.

15. Regulatory Information:

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Components of this product are on the California Proposition 65 lists.

CERCLA INFORMATION (40CFR302.4):

Releases of this material to air, land, or water are not reportable to the National Response Centre under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

U.S. TOXIC SUBSTANCES CONTROL ACT (TSCA): All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Information on the maximum volatile organic compound (VOC) content of individual products appears on product labels.

S23: Do not breathe vapour.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Other Information:

- NFP Hazard Codes

Health: 1 Fire: 0 Reactivity: 0 Special: None

- HMIS III Rating

Health: 1 Flammability: 0 Physical Hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating system is intended for different purposes, and use different criteria. The NFPA system was developed to provide an on the spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

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