

QUALITY **CLEANS.**



Oxone™ Monopersulfate Compound

Your Home Care ingredient for reliable stain removal.

X Oxone™

QUALITY WORKS.

LANXESS
Energizing Chemistry



Unlock Superior Cleaning Performance with Oxone™ Monopersulfate Compound: The Ultimate Oxidizing Ingredient for Home Care Products

As a leading manufacturer in the detergent and cleaning industry, you understand the importance of incorporating high-performance ingredients that deliver exceptional cleaning power while also addressing environmental and consumer safety concerns. Oxone™ Monopersulfate Compound is a cutting-edge oxidizing ingredient designed to revolutionize your home care detergent and cleaning formulations. Whether you're developing laundry detergents, dishwashing pods, or appliance and hard surface cleaners, Oxone™ Monopersulfate Compound offers unparalleled performance benefits, making it the perfect choice for your next formulation innovation.

Key Features of Oxone™ Monopersulfate Compound

1. Exceptional Brightness and Whitening
Oxone™ Monopersulfate Compound excels in providing superior brightness and stain removal to fabrics and surfaces. It effectively removes stubborn stains, leaving clothes, dishes, and surfaces looking pristine after every wash.

2. Low-Temperature Efficacy
Designed to perform optimally at low temperatures, Oxone™ Monopersulfate Compound ensures excellent cleaning results even at 20°C. This feature is particularly advantageous for eco-conscious consumers who prefer cold water washing, reducing energy consumption without compromising on cleaning power.



3. Short Cycle Time Efficiency
In today's fast-paced world, consumers demand quick yet effective cleaning solutions. Oxone™ Monopersulfate Compound is engineered to act rapidly, enabling shorter wash and cleaning cycles. This benefit is ideal for time-saving formulations, ensuring thorough cleaning in less time.

4. Low Environmental Impact
Oxone™ Monopersulfate Compound offers a sustainable solution for your formulations. The non-chlorine and non-persistent chemistry degrades rapidly into potassium and sulfate salts. Plus it requires lower quantities compared to traditional oxidizing agents like sodium percarbonate, concentrating the cleaning power of your products.

5. Versatile Formulation Options
Supplied as a powder, Oxone™ Monopersulfate Compound can be easily incorporated into various product formats. Whether you're formulating powdered detergents or creating convenient unit-dose tablets or pods, Oxone™ Monopersulfate Compound offers flexibility in product design. Its excellent solubility ensures it dissolves quickly in water, maximizing its cleaning action in every application. Furthermore, it is odorless, contributing to a more pleasant user experience without the harsh smells associated with chlorine oxidizers.

6. Superior Transport Safety
Safety in transportation and handling is critical in the chemical industry. Oxone™ Monopersulfate Compound boasts a favorable transport hazard classification (Class 8) compared to many other oxidizing agents, e.g. sodium percarbonate (Class 5.1). This attribute not only reduces logistical risks but also enhances the overall safety profile of your final product.

Application Areas

Oxone™ Monopersulfate Compound is a versatile ingredient suitable for the formulation of wide range of home care products:

Toilet Bowls and Drains

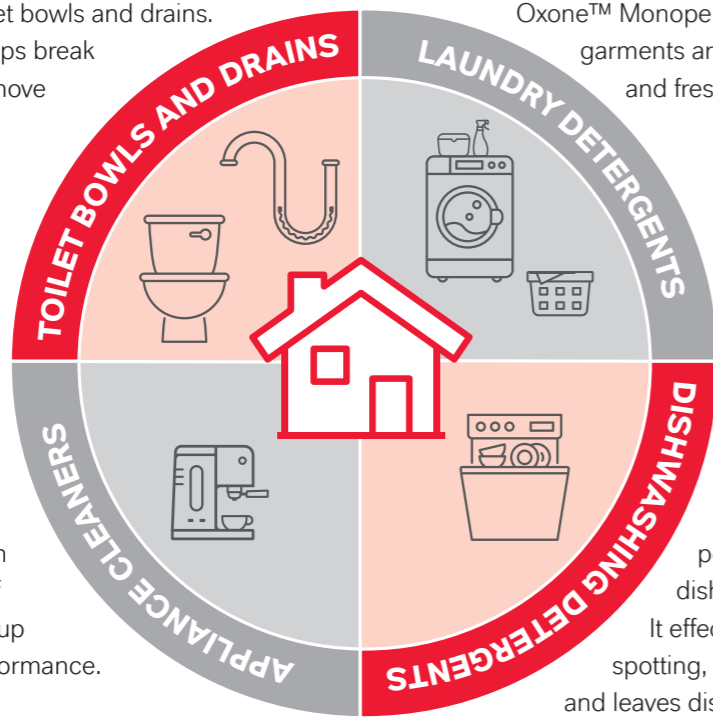
Oxone™ Monopersulfate Compound is an ideal ingredient for formulating hard surface cleaners, particularly for challenging areas like toilet bowls and drains. Its strong oxidizing power helps break down organic matter and remove tough stains effortlessly.

Laundry Detergents

Achieve outstanding stain removal, brightness, and fabric care at lower wash temperatures. Oxone™ Monopersulfate Compound ensures garments are impeccably clean, bright, and fresh, even in short wash cycles.

Appliance Cleaners

From washing machines to dishwashers and coffee machines, formulating with Oxone™ Monopersulfate Compound ensures thorough cleaning and maintenance of appliances, preventing build-up and maintaining optimal performance.



Dishwashing Detergents

Oxone™ Monopersulfate Compound provides powerful cleaning performance in machine dishwashing formulations. It effectively prevents water spotting, removes tough stains and leaves dishes sparkling clean without the need for high temperatures.

Competitive Advantage

Oxone™ Monopersulfate Compound is not just another oxidizing agent. While it competes with established chemistries such as sodium percarbonate and chlorine, it offers unique advantages that set it apart:

Higher Efficiency: With Oxone™ Monopersulfate Compound, you can achieve the same or better cleaning results using lower quantities than sodium percarbonate, making your formulations cost-effective and environmentally acceptable.

Odorless Performance: Unlike chlorine, Oxone™ Monopersulfate Compound is odorless, enhancing the consumer experience by eliminating unpleasant smells during and after use. Plus it does not mask added fragrances.

Innovation Potential: While Oxone™ Monopersulfate Compound is well-established in other industries, its introduction to the home care market offers fresh opportunities for innovation in your product lines.

Elevate Your Formulations with Superior Low-Temperature Performance

In the highly competitive home care market, delivering products that perform exceptionally well, even at low temperatures, is crucial. Consumers are increasingly turning to cold water washes to save energy and protect delicate fabrics, making the choice of oxidizing agents in your formulations more important than ever. Oxone™ Monopersulfate Compound has been proven to outperform traditional oxidizing agents, including sodium percarbonate and sodium percarbonate combined with TAED, in laboratory tests under challenging low-temperature conditions.

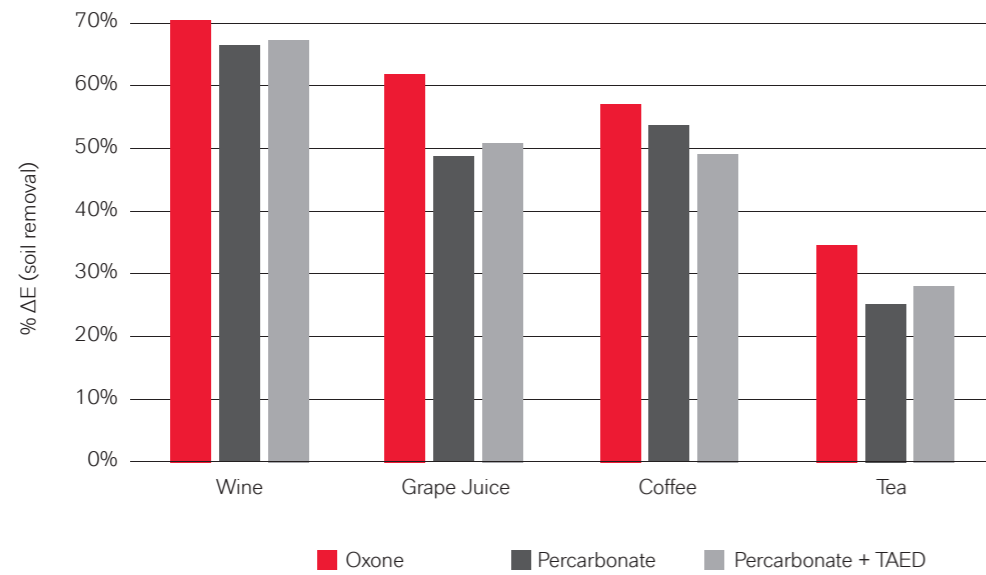
Performance Data Overview

Comparative testing has demonstrated that Oxone™ Monopersulfate Compound delivers superior stain removal and brightness enhancement at 20°C, making it the ideal choice for low-temperature cleaning applications. When tested against a range of tough, oxidisable stains such as coffee, tea, red wine, and grape juice, as shown in Figures 1 and 2, Oxone™ Monopersulfate Compound consistently outperformed both sodium percarbonate and sodium percarbonate + TAED.

Figure 1: Images showing textile stain removal compared to an unwashed reference after first wash with 1. Oxone™ Monopersulfate Compound (0.3 g/L; pH 6.1), 2. Sodium percarbonate (SPC) (0.3g/L; pH 10.3), 3. Sodium percarbonate (SPC) plus TAED (0.3 g/L + 0.1 g/L; pH 10), under low temperature (19.7 °C) and short cycle conditions (45 minutes). No other ingredients / detergents were added.

		REFERENCE	OXONE™	SPC	SPC + TAED
RED WINE					
GRAPE JUICE					
COFFEE					
TEA					

Figure 2: Data from the images in Figure 1, showing the textile soil removal (%ΔE) after first wash. %ΔE is calculated from L*, a* and b* values measured by Mach5 Color Consult equipment.

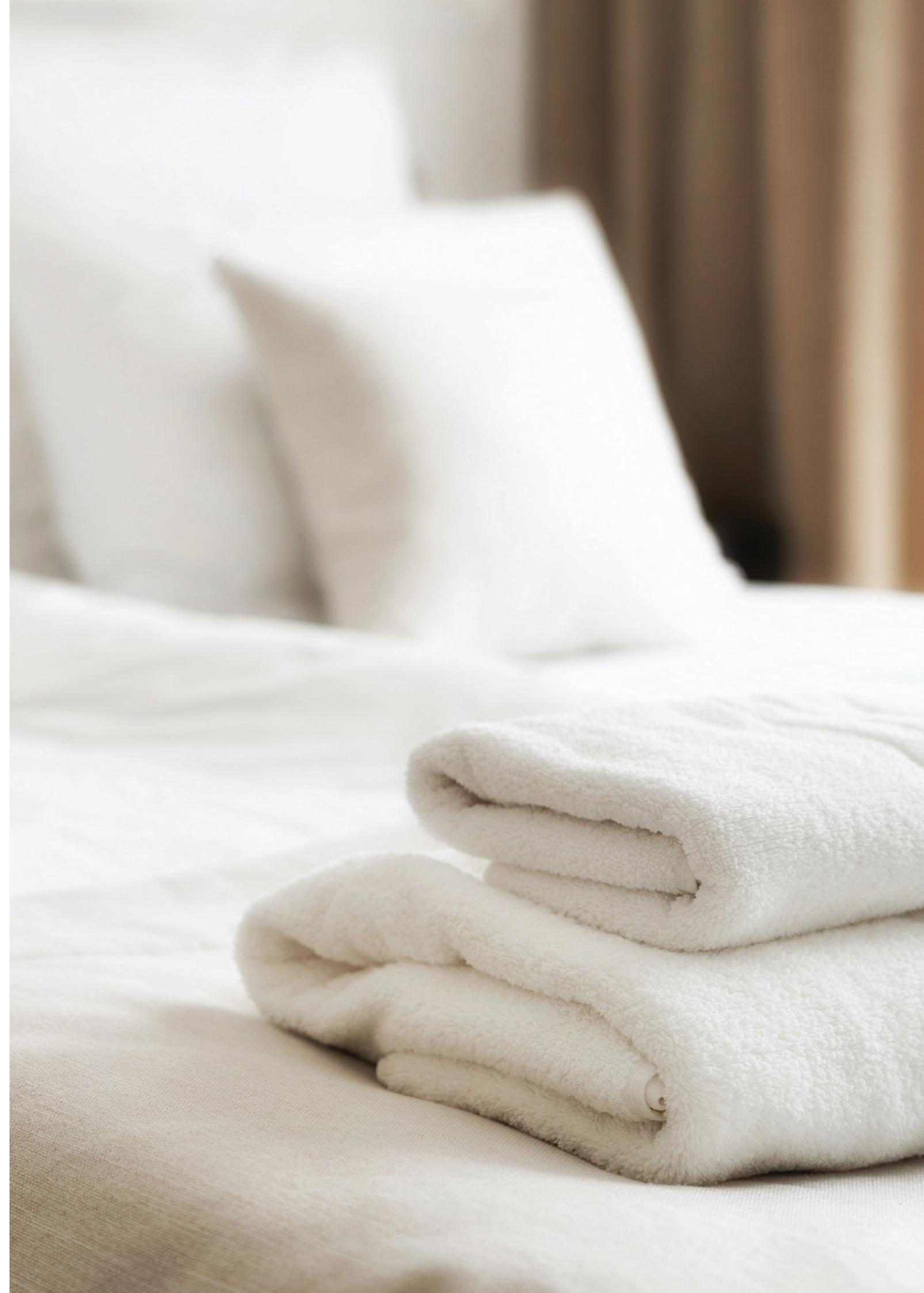


Why This Matters

The ability to achieve such high levels of cleaning and brightness at low temperatures not only meets consumer demands for energy-efficient washing but also positions your products at the forefront of environmental responsibility. By choosing Oxone™ Monopersulfate Compound you are not only providing a superior cleaning solution but also contributing to a more sustainable future.



Partner with us to bring the power of Oxone™ Monopersulfate Compound to your formulations and lead the market with products that combine cutting-edge technology with sustainable practices.



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LANXESS Deutschland GmbH
Business Unit Material Protection Products
Kennedyplatz 1
50569 Cologne
Germany

LANXESS Corporation
Business Unit Material Protection Products
111 RIDC Park West Drive
Pittsburgh, PA 15275, USA

We kindly ask you to send customer inquiries to:

contactoxone@lanxess.com
oxone.lanxess.com

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Unless specified to the contrary, the values given have been established on standardized test specimens at room temperature. The figures should be regarded as guide values only and not as binding minimum values. Kindly note that the results refer exclusively to the specimens tested. Under certain conditions, the test results established can be affected to a considerable extent by the processing conditions and manufacturing process.

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Note: The information contained in this publication is current as of October 2024. Please contact LANXESS to determine if this publication has been revised.