

## Perkadox 33 SP

Dibenzoyl peroxide, powder, 33% with inert fillers

The application for Perkadox® 33 SP is the bleaching of flour, oil, whey & cheese products.

CAS number  
94-36-0

EINECS/ELINCS No.  
202-327-6

TSCA status  
listed on inventory

### Specifications

Active content	2.11-2.32 %
Appearance	White powder
Assay	32.0-35.0 %

### Characteristics

Density, 20°C	1.895 g/cm <sup>3</sup>
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### Applications

The application for Perkadox® 33 SP is the bleaching of flour, oil, whey & cheese products. The free-flowing nature of the product allows for accurate dosing and thorough distribution in the product with proper mixing. This gives rise to higher and more even bleaching efficiency through oxidation of colored matter. To obtain the maximum desired effect in flour, one part of BPO powder (pure) needs to be mixed with 30,000 parts of flour. This equates to one part of Perkadox® 33 SP (which is 33% active BPO) to 10,000 parts of flour. Thorough mixing is essential for maximum effect to occur after two days. Use in the USA is regulated by the FDA under the CFR - Code of Federal Regulations Title 21 and should be referenced to insure compliance.

### Thermal stability

Organic peroxides are thermally unstable substances, which may undergo self-accelerating decomposition. The lowest temperature at which self-accelerating decomposition of a substance in the original packaging may occur is the Self-Accelerating Decomposition Temperature (SADT). The SADT is determined on the basis of the Heat Accumulation Storage Test.

SADT	60°C
Method	The Heat Accumulation Storage Test is a recognized test method for the determination of the SADT of organic peroxides (see Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria - United Nations, New York and Geneva).

## Storage

Due to the relatively unstable nature of organic peroxides a loss of quality can be detected over a period of time. To minimize the loss of quality, Nouryon recommends a maximum storage temperature (Ts max. ) for each organic peroxide product.

Ts max.	40°C
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Note

When stored under these recommended storage conditions, Perkadox® 33 SP will remain within the Nouryon specifications for a period of at least 6 months after delivery.

## Packaging and transport

The standard packaging is a cardboard box for 25 kg and a big bag for 1050 kg peroxide. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Perkadox® 33 SP is not classified as a dangerous good according to national and international transport regulations.

## Safety and handling

Keep containers tightly closed. Store and handle Perkadox® 33 SP in a dry well-ventilated place away from sources of heat or ignition and direct sunlight. Never weigh out in the storage room. Avoid contact with reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers and metal soaps). Please refer to the Safety Data Sheet (SDS) for further information on the safe storage, use and handling of Perkadox® 33 SP. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at [nouryon.com/sds-search](http://nouryon.com/sds-search).

## Major decomposition products

Carbon dioxide, benzoic acid, benzene, diphenyl, phenyl benzoate

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

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The logo for Nouryon, featuring a stylized blue 'N' followed by the word 'ouryon' in a blue sans-serif font.