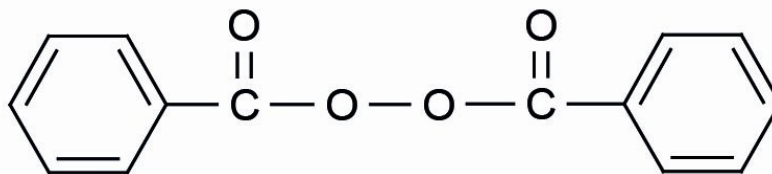


Perkadox 20S

Dibenzoyl peroxide



Perkadox 20S is a special low-concentration BPO formulation (20% peroxide) for curing mine bolts and chemical anchors. The low concentration allows for transportation as non-ADR grade. The formulation ensures easy mixing and handling.

CAS number
94-36-0

EINECS/ELINCS No.
202-327-6

TSCA status
listed on inventory

Specifications

Appearance	White powder
Assay	20.0-21.0 %

Characteristics

Bulk density, 20 °C	588 kg/m ³
Density, 20 °C	2.29 g/cm ³

Applications

For some special applications it is desirable to use a dry benzoyl peroxide powder as a catalyst. For these cases the benzoyl peroxide formulation Perkadox 20S was introduced, which is a mixture of benzoyl peroxide and filler. Perkadox 20S can be handled very easily and without risk. It contains no plasticizer and is lower concentrated than the usual benzoyl peroxide formulations, which makes dosing easier. One of the most important applications for Perkadox 20S is as a catalyst for putties based on unsaturated polyester resins. A putty containing an accelerated polyester resin and Perkadox 20S cures rapidly so that after a short time the surface can be sanded and polished.

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	70°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.	25°C
Note	When stored under these recommended storage conditions, Perkadox 20S will remain within the Nouryon specifications for a period of at least one year after delivery.

Packaging and transport

The standard packaging is a cardboard box for 25 kg peroxide. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Perkadox 20S is classified as Environmentally hazardous substance, solid, n. o. s. (Dibenzoyl chloride), UN 3077.

Safety and handling

Keep containers tightly closed. Store and handle Perkadox 20S 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 20S. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at <https://polymerchemistry.nouryon.com>.

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.

Perkadox is a registered trademark of Nouryon Chemicals B. V. or affiliates in one or more territories.

Contact Us

Europe, Middle East, India and Africa
polymerchemistry.nl@nouryon.com

Asia Pacific
polymerchemistry.ap@nouryon.com

Americas
polymerchemistry.na@nouryon.com

The Nouryon logo consists of a stylized orange 'N' followed by the word 'ouryon' in a lowercase, orange, sans-serif font.