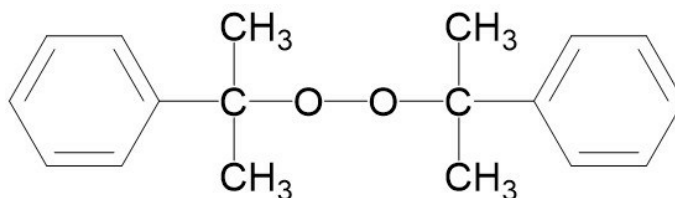


Perkadox BC-A50

Dicumyl peroxide 50% in aromatic solvent



Perkadox® BC-A50 is a monofunctional peroxide used for crosslinking of natural and synthetic rubbers as well as thermoplastic polyolefins.

CAS number
80-43-3

EINECS/ELINCS No.
201-279-3

TSCA status
listed on inventory

Molecular weight
270.4

Active oxygen content
peroxide
5.92%

Specifications

Appearance, 20-25°C	Clear liquid
Assay	49.0-51.0 %
Color	25 APHA max.

Characteristics

Flashpoint	(closed cup) 46 °C
Refractive index, 25°C	1.5140-1.5170 (± 0.2°C)

Applications

Perkadox® BC-A50 is used for the crosslinking of natural and synthetic rubbers, as well as thermoplastic polyolefins. Rubber compounds containing Perkadox® BC-A50 have good processing safety with a moderate rate of cure. Safe processing temperature (rheometer $t_{s2} > 20$ minutes): 130°C. Typical crosslink temperature (rheometer t_{90} about 12 minutes): 170°C. Data were determined by means of a rheometer in an EPDM-based test compound.

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	90°C (194°F)
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.	30°C (86°F)
Note	When stored under the recommended storage conditions, Perkadox® BC-A50 will remain within the Nouryon specifications for a period of at least 12 months after delivery.

Packaging and transport

The standard packaging is a 410 lb drum. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Perkadox® BC-A50 is classified as Organic peroxide type F; liquid, Division 5. 2; UN 3109

Safety and handling

Keep containers tightly closed. Store and handle Perkadox® BC-A50 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® BC-A50. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at nouryon.com/sds-search.

Major decomposition products

Acetophenone, Methane, 2-Phenylisopropanol

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 Functional Chemicals B.V. or affiliates in one or more territories.

Contact Us

Polymer Specialties Americas
polymer.amer@nouryon.com

Polymer Specialties Europe, Middle East, India and Africa
polymer.emeia@nouryon.com

Polymer Specialties Asia Pacific
polymer.apac@nouryon.com

The Nouryon logo consists of a stylized blue 'N' followed by the word 'ouryon' in a lowercase, sans-serif font. The 'N' is significantly larger and more prominent than the rest of the text.