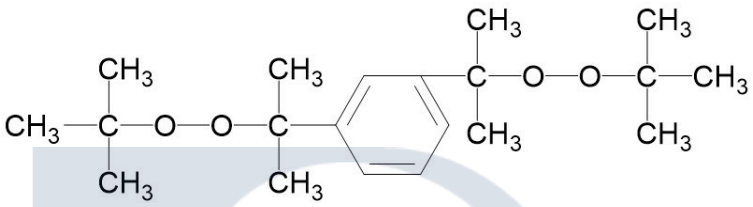
Perkadox 14-40B-PD-S

Di(tert-butylperoxyisopropyl) benzene



Perkadox® 14-40B-PD-S is a 40% formulation on an inert carrier system in powder form.

CAS number 2212-81-9, 25155-25-3	EINECS/ELINCS No. 218-664-7
TSCA status listed on inventory	Molecular weight 338.5
Active oxygen content peroxide 9.45%	Concentration 3.7-3.9%

Specifications

Appearance	Off-white powder
Assay	39.0-41.0 %

Applications

Perkadox® 14-40B-PD-S is a bifunctional peroxide which is used for the crosslinking of natural rubber and synthetic rubbers, as well as polyolefins. Rubber compounds containing Perkadox® 14-40B-PD-S have excellent scorch safety, and under certain conditions one step mixing is possible. Safe processing temperature: 135°C (rheometer ts2 > 20 min.). Typical crosslinking temperature: 175°C (rheometer t90 about 12 min.).

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	80°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).

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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
Note	When stored under strictly recommended storage conditions, Perkadox® 14-40B-PD-S will remain within the Nouryon specifications for a period of at least 12 months after delivery.

Packaging and transport

The standard packaging is a cardboard box for 25 kg peroxide formulation. Both packaging and transport meet the international regulations. For the availability of other packed quantities consult your Nouryon representative. Perkadox® 14-40B-PD-S is classified as Flammable solid, class 4. 1, UN 1325.

Safety and handling

Keep containers tightly closed. Store and handle Perkadox® 14-40B-PD-S 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, alkalines 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® 14-40B-PD-S. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at nouryon.com/sds-search.

Major decomposition products

Methane, Acetone, tert-Butanol, Di(2-hydroxyisopropyl)benzene, Diacetylbenzene, Acetyl 2-hydroxyisopropyl benzene

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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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