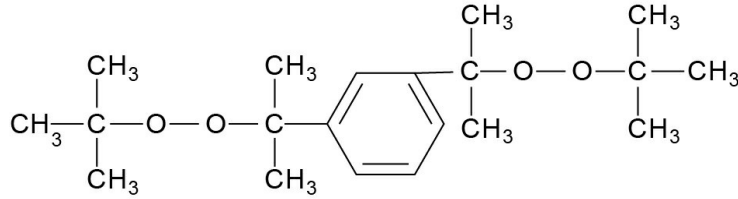


Perkadox 14S-FL

Di(tert-butylperoxyisopropyl)benzene



Pure, general purpose dialkyl peroxide used for crosslinking elastomer and thermoplastic applications. Easy to handle and dose.

CAS number 25155-25-3, 2212-81-9
EINECS/ELINCS No. 218-664-7

TSCA status listed on inventory
Molecular weight 338.5

Active oxygen content peroxide 9.45%
Concentration 9.26% min.

Specifications

Appearance	Slightly yellow flakes
Assay	≥ 98.0 %

Characteristics

Bulk density, 20°C	400 (25 lb/ft ³) kg/m ³
Density, 20°C	1.08 g/cm ³
Melting range	46-52 (115-126°F) °C

Applications

Perkadox 14S-fl is used for the crosslinking of natural and synthetic rubbers, as well as thermoplastic polyolefins. Compounds containing Perkadox 14S-fl have excellent scorchsafety, under certain conditions one step mixing is possible.

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 (176°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.	20°C (68°F) to prevent caking
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Packaging and transport

The standard packaging is a cardboard box for 4 x 5 kg peroxide. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Perkadox 14S-fl is classified as Organic peroxide type D; solid, Division 5. 2; UN 3106.

Safety and handling

Keep containers tightly closed. Store and handle Perkadox 14S-fl 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 14S-fl. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at <https://polymerchemistry.nouryon.com>.

Major decomposition products

tert-Butanol, Methane, Acetone, Bis(2-hydroxyisopropyl)benzene,

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