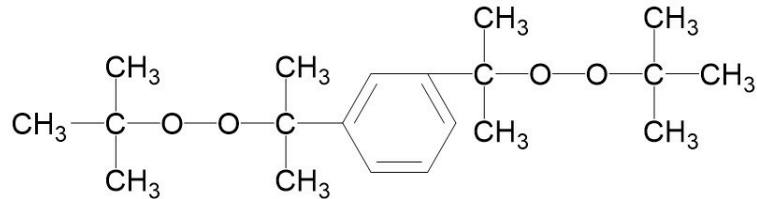


Perkadox 14S-FL

Di(tert-butylperoxyisopropyl)benzene



Controlled rheology polypropylene (CR-PP): High melt-flow index polypropylene grades are produced by post reactor treatment. These high melt-flows are achieved by peroxide-initiated degradation during extrusion of the polypropylene. The advantage of this process is the high flexibility; the peroxide concentration controls the final viscosity. Coagent for flame retardant polystyrene: Polystyrene is made flame retardant by the use of halogen-containing additives such as hexabromocyclododecane (HBCD). Perkadox® 14S-FL can be used as a synergist in such systems thereby leading to a significant reduction in the amount of HBCD required.

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 %

Applications

Perkadox® 14S-FL can be used for the market segments: polymer production and polymer crosslinking with their different applications/functions. For more information please check our website and/or contact us.

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
Note	Perkadox® 14S-FL can be safely stored at 30°C (86°F) max without loss of activity. When stored under strictly recommended storage conditions, Perkadox® 14S-FL 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 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 nouryon.com/sds-search.

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 blue 'N' followed by the word 'ouryon' in a lowercase, sans-serif font.