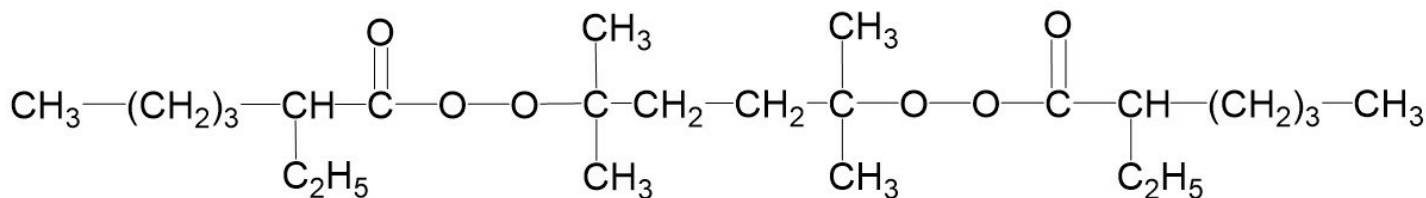


Trigonox 141

2,5-Dimethyl-2,5-di(2-ethylhexanoylperoxy) hexane



Trigonox® 141, 2,5-Dimethyl-2,5-di(2-ethylhexanoylperoxy)hexane, is a di-functional perester which is used for the curing of unsaturated polyester resins at high temperatures. Trigonox® 141 is preferred for the curing of UP resin based Hot Press Molding formulations (such as DMC and BMC) in the temperature range of 120 - 160°C. Trigonox® 141 is preferably used in combination with a low reactive peroxide like Trigonox® C or Trigonox® BPIC-C75 and an optimal low Profile SMC formulation for the production of HPM parts with a Class A surface at short molding times.

CAS number
13052-09-0

EINECS/ELINCS No.
235-935-5

TSCA status
listed on inventory

Specifications

2,5-dihydroperoxy-2,5-dimethylhexane	≤ 2.2 %
Appearance	Clear liquid
Assay	≥ 92.0 %
Color	≤ 20 Pt-Co
Inorganic + organic hydrolysable chloride	≤ 100 mg/kg

Characteristics

Density, 20 °C	0.956 g/cm ³
Viscosity, 20 °C	80 mPa.s

Applications

Trigonox® 141 can be used for the market segments: polymer production and thermoset composites 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	35°C (95°F)
Emergency temperature (T _e)	25°C (77°F)
Control temperature (T _c)	20°C (68°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 (T_s max.) for each organic peroxide product.

T _s max.	15°C
Note	When stored according to these recommended storage conditions, Trigonox® 141 will remain within the Nouryon specifications for a period of at least 3 months after delivery.

Packaging and transport

The standard packaging is a 30-liter HDPE can (Nourytainer®) for 25 kg peroxide. Both packaging and transport meet the international regulations. For the availability of other packed quantities consult your Nouryon representative. Trigonox® 141 is classified as Organic peroxide type C; liquid, temperature controlled, Division 5. 2; UN 3113.

Safety and handling

Keep containers tightly closed. Store and handle Trigonox® 141 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 Trigonox® 141. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at nouryon.com/sds-search.

Major decomposition products

Carbon dioxide, Acetone, 2-Pentanone, Heptane, Heptenes, tert-Amyl alcohol, 2,5-Bis(1-ethylpentoxy)-2,5-dimethylhexane, 2,5-Dimethyl-2,5-hexanediol

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. The 'N' is significantly larger and more prominent than the rest of the text.