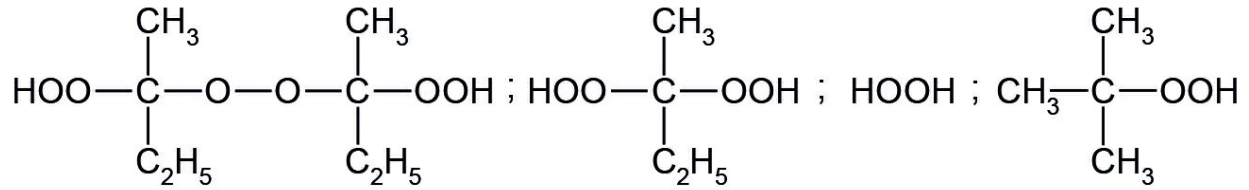


Trigonox 75 VRN

Methyl ethyl ketone peroxide



Peroxide mixture, specially developed for the production and cure of thick laminates and for applications where a high peak exotherm should be avoided. Applications such as pipes, tanks, windmill rotors.

CAS number
1338-23-4

EINECS/ELINCS No.
215-661-2

TSCA status
listed on inventory

Specifications

Appearance	Clear red liquid
tert-Butyl hydroperoxide	3.1-3.5 %
Total active oxygen	9.8-10.0 %

Characteristics

Density, 20 °C	1.130 g/cm ³
Viscosity, 20 °C	20 mPa.s

Applications

Trigonox 75 VRN is a methyl ethyl ketone peroxide formulation for the curing of unsaturated polyester resins in the presence of a cobalt accelerator at room and elevated temperatures. Trigonox 75 VRN offers all the advantages of standard Trigonox 75. The Trigonox 75 VRN includes a vanishing red indicator system that in most cases virtually disappears during cure. The red color is there when you need it i.e. during the mixing step, but will disappear during cure. In thin laminates up to approx. 4 mm Trigonox 75 VRN performs comparable with Butanox M-50, however, in thicker laminates up to approx. 10 mm Trigonox 75 VRN gives a reduced peak exotherm at equal gel time and curing time. Therefore, Trigonox 75 VRN is suitable for the cure of both thin and thick sections in one particular product.

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	60°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).

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.	25°C
Note	When stored under these recommended storage conditions, Trigonox 75 VRN will remain within the Nouryon specifications for a period of at least 3 months after delivery.

Packaging and transport

Trigonox 75 VRN is packed in a 30 liter HDPE can (Nourytainer) for 30 kg peroxide. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Trigonox 75 VRN is classified as Organic peroxide type D; liquid, Division 5.2; UN 3105.

Safety and handling

Keep containers tightly closed. Store and handle Trigonox 75 VRN 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 75 VRN. 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, water, acetic acid, formic acid, propionic acid, methyl ethyl ketone

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.