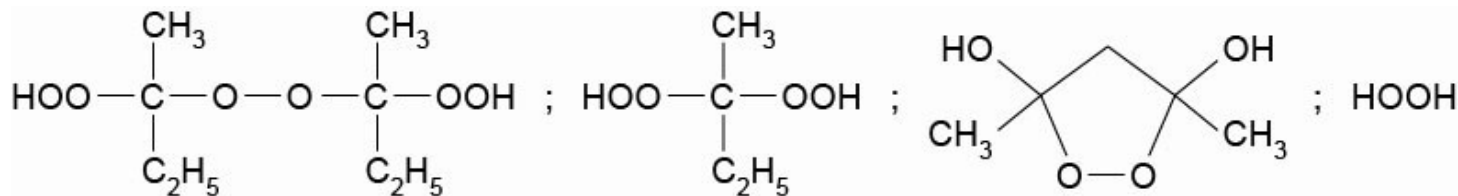


# Trigonox 65

Methyl ethyl ketone peroxide



Trigonox 65 is an organic peroxide mixture suitable for applications where a shorter demoulding time is required. Faster speed of cure than Trigonox 63 and Butanox M-50, though the high cure rates of Trigonox 44B are not attainable.

#### CAS number

1338-23-4, 37187-22-7

#### EINECS/ELINCS No.

215-661-2; 253-384-9

#### TSCA status

listed on inventory

## Specifications

Active oxygen	5.4-5.6 %
Appearance	Clear liquid
Color	50 Pt-Co max.

## Characteristics

Density, 20 °C	1.14 g/cm <sup>3</sup>
Viscosity, 20 °C	approx. 120 mPa.s (Brookfield viscosity meter type DV-II-LT type LVT / spindle no. 63 at 200 rpm) mPa.s

## Applications

Trigonox 65 is an organic peroxide mixture with methyl ethyl ketone peroxide and acetylacetone peroxide for the curing of unsaturated polyester resins in the presence of a cobalt accelerator at room and elevated temperatures. With the curing system Trigonox 65/cobalt accelerator a faster speed of cure can be obtained than with Butanox M-50; however the high cure rates achieved with Trigonox 44B are not attainable. The gel times with Trigonox 65 are in general similar to those with Trigonox 63. The curing system Trigonox 65/cobalt accelerator is particularly suitable for the curing of laminating resins, and for applications where a shorter demoulding time is required than obtained with Trigonox 63. Moreover the manufacture of light resistant parts may be possible contrary to the curing system benzoyl peroxide/amine accelerator. For room temperature application it is necessary to use Trigonox 65 together with a cobalt accelerator (e.g. Accelerator NL-49PN).

## 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
Ts Min.	-10°C to prevent crystallization
Note	When stored under the recommended storage conditions, Trigonox 65 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 30 kg peroxide content. Both packaging and transport meet the international regulations. For the availability of other packed quantities consult your Nouryon representative. Trigonox 65 is classified as Organic peroxide type D; liquid, Division 5.2; UN 3105.

## Safety and handling

Keep containers tightly closed. Store and handle Trigonox 65 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 65. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at [nouryon.com/sds-search](http://nouryon.com/sds-search)

## Major decomposition products

Carbon dioxide, water, methyl ethyl ketone, acetylacetone, mixture of aliphatic acids

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.