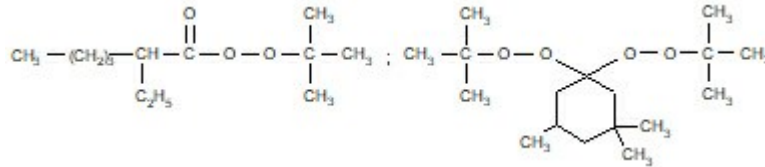


# Trigonox KSM-CH75

Mixture of tert-butyl peroxy-2-ethylhexanoate and 1,1-Di(tert-butylperoxy)-3,3,5-trimethylcyclohexane, 75% in odorless mineral spirits



Trigonox KSM-CH75 is a peroxide mixture (75% active ingredient in odorless mineral spirits) developed for curing UP-resin-based Hot Press Moulding formulations (SMC, DMC, BMC etc) in the temperature range of 100-150°C.

**CAS number**

3006-82-4; 6731-36-8

**EINECS/ELINCS No.**

221-110-7; 229-782-2

**TSCA status**

listed on inventory

## Specifications

Active oxygen	6.2-6.4 %
Appearance	Clear liquid
Viscosity, 20°C	8 mPa.s

## Characteristics

Density, 20 °C	0.86 g/cm <sup>3</sup>
Melting point	-20 °C
Viscosity, 20 °C	8 mPa.s

## Applications

Trigonox KSM-CH75 is a peroxide mixture developed for the cure of UP resin based Hot Press Moulding formulations (SMC, DMC, BMC etc) in the temperature range of 100 - 150°C. With this product a high speed of cure can be achieved. The peroxide is partly based on a perketale and is therefore: especially suitable for pigmented systems. restricted applicable for Low Shrink and Low Profile formulations.

## 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	40°C (104°F)
Emergency temperature (T <sub>e</sub> )	35°C ( 95°F)
Control temperature (T <sub>c</sub> )	30°C ( 86°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<sub>s</sub> max.) for each organic peroxide product.

T <sub>s</sub> Max.	20°C (68°F)
T <sub>s</sub> Min.	-20°C ( -4°F)
Note	When stored under the recommended storage conditions Trigonox KSM-CH75 will remain within the Nouryon specifications for a period of at least 3 months after delivery.

## Packaging and transport

Trigonox KSM-CH75 is packed in non-returnable 1 gallon polyethylene containers of 7 lb net weight (4 per case). Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Trigonox KSM-CH75 is classified as Organic peroxide type C; liquid, temperature controlled; Division 5.2; UN 3113; PG II.

## Safety and handling

Keep containers tightly closed. Store and handle Trigonox KSM-CH75 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 KSM-CH75. 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, tert-Butanol, Heptane, 3-tert-Butoxyheptane, Methane, 3,3,5-Trimethylcyclohexanone, Acetone

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.

Trigonox is a registered trademark of Nouryon Functional Chemicals B.V. or affiliates in one or more territories.

## Contact Us

**Polymer Catalysts Americas**  
polymer.amer@nouryon.com

**Polymer Catalysts Europe, Middle East, India and Africa**  
polymer.emeia@nouryon.com

**Polymer Catalysts Asia Pacific**  
polymer.apac@nouryon.com

The logo for Nouryon, featuring a stylized blue 'N' followed by the word 'ouryon' in a blue sans-serif font.