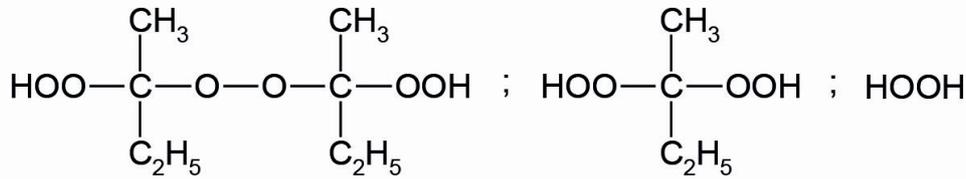


Trigonox V388 VRB

Methyl ethyl ketone peroxide, in solvent mixture



Trigonox® V388 VRB is a general purpose methyl ethyl ketone peroxide (MEKP) with a VRB system for the curing of unsaturated polyester resins in the presence of a cobalt accelerator at room and elevated temperatures.

CAS number
1338-23-4

EINECS/ELINCS No.
215-661-2

TSCA status
listed on inventory

Specifications

Appearance	Clear colorless liquid
Total active oxygen	9.7-10.0 %

Characteristics

Density, 20 °C	1.120 g/cm ³
Flashpoint	37 (Closed Cup) / ≥ 63 (Open Cup) °C

Applications

Trigonox® V388 VRB is general purpose methyl ethyl ketone peroxide (MEKP) for the curing of unsaturated polyester resins in the presence of a cobalt accelerator at room and elevated temperatures. The curing system Trigonox® V388 VRB/cobalt accelerator is developed for general purpose GRP- and non GRP-applications such as the curing of laminating resins and castings. For room temperature application it is necessary to use Trigonox® V388 VRB together with a cobalt accelerator (e.g. Accelerator® NL-49PN). The vanishing red (VR) series of products include a red indicator system that disappears during the cure. The red color is only visible when needed but not in the finished end product. The key features are: indicates initiator presence, monitoring of the mixing step, monitoring of the cure by color and indicating under-cured area's in the mold, and last but not least it leaves the end product colorless after the cure.

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	55°C
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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).
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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
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Note	When stored under the recommended storage conditions, Trigonox® V388 VRB will remain within the Nouryon specifications for a period of at least 6 months after delivery.
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Packaging and transport

The standard packaging is a 20 l HDPE can (Nourytainer®) for 20 kg peroxide solution. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Trigonox® V388 VRB is classified as Organic peroxide type D; liquid; Division 5.2; UN 3105; PG II.

Safety and handling

Keep containers tightly closed. Store and handle Trigonox® V388 VRB 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® V388 VRB. 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, Propanoic 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.