

# Trigonox SUPER 828

Methyl ethyl ketone peroxide, in solvent mixture

Trigonox® SUPER 828 is a 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.

CAS number  
1338-23-4

EINECS/ELINCS No.  
215-661-2

TSCA status  
listed on inventory

## Specifications

Appearance	Clear colorless liquid
Total active oxygen	9.8-10.0 %

## Characteristics

Density, 20°C	1.130 g/cm <sup>3</sup>
Flashpoint	42 (Closed Cup) / > 63°C (Open Cup) °C

## Applications

Trigonox® SUPER 828 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® SUPER 828/cobalt accelerator is developed for general purpose GRP- and non GRP-applications such as the curing of laminating resins and castings. Practical experience throughout many years has proven that for marine applications a special MEKP with low water content and without polar compounds is demanded in order to prevent from osmosis and other problems. Butanox® M-50 is the MEKP advised for this application. For room temperature application it is necessary to use Trigonox® SUPER 828 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	55°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 the recommended storage conditions, Trigonox® SUPER 828 will remain within the Nouryon specifications for a period of at least 3 months after delivery.

## Packaging and transport

The standard packaging is a HDPE can 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® SUPER 828 is classified as Organic peroxide type D; liquid; Division 5.2; UN 3105; PG I

## Safety and handling

Keep containers tightly closed. Store and handle Trigonox® SUPER 828 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® SUPER 828. 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, 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.

Trigonox and Butanox are registered trademarks of Nouryon Functional Chemicals B.V. or affiliates in one or more territories.

## Contact Us

**Polymer Specialties Americas**  
[polymer.amer@nouryon.com](mailto:polymer.amer@nouryon.com)

**Polymer Specialties Europe, Middle East, India and Africa**  
[polymer.emeia@nouryon.com](mailto:polymer.emeia@nouryon.com)

**Polymer Specialties Asia Pacific**  
[polymer.apac@nouryon.com](mailto:polymer.apac@nouryon.com)

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