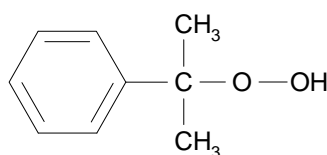
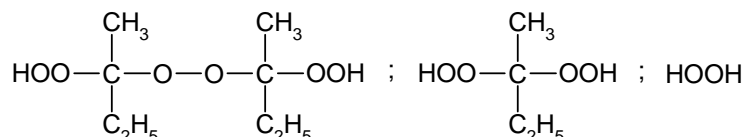




## Trigonox<sup>®</sup> 178

### Product description

Methyl ethyl ketone peroxide and cumyl hydroperoxide solution in 2,2,4-trimethyl-1,3-pentanediol diisobutanoate



CAS No.	: 1338-23-4; 80-15-9
EINECS/ELINCS No.	: 215-661-2; 201-254-7
TSCA status	: listed on inventory

### Characteristics

Appearance, 20 to 25°C	: Clear liquid
Active oxygen	: 9.1%

### 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, AkzoNobel recommends a maximum storage temperature ( $T_s$  max.) for each organic peroxide product.

For *Trigonox* 178  $T_s$  max. = 30°C (86°F)

When stored under these recommended storage conditions *Trigonox* 178 will remain within the AkzoNobel specifications for a period of at least 3 months after delivery.

### 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.

For *Trigonox* 178 SADT : 60°C (140°F)

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).

### Major decomposition products

Carbon dioxide, Water, Acetic acid, Formic acid, Propionic acid, Methyl ethyl ketone, Acetophenone, 2-Phenylisopropanol, Methane

## Packaging and transport

*Trigonox* 178 is packed in non-returnable, one gallon polyethylene containers of 8 lb net weight (4 per case).

Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your AkzoNobel representative.

*Trigonox* 178 is classified as Organic peroxide type D; liquid; Division 5.2; UN 3105.

## Safety and handling

Keep away from open fire, sparks and other sources of heat or ignition.

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 Material Safety Data Sheet (MSDS) for further information on the safe storage, use and handling of *Trigonox* 178. This information should be thoroughly reviewed prior to acceptance of this product.

## Applications

*Trigonox* 178 is a convenient pre-blended initiator suitable for curing unsaturated polyester, vinyl ester and acrylic thermosetting resins at ambient conditions in conjunction with a metal salt. *Trigonox* 178 produces lower exotherms than standard MEKP's and is useful in warm and hot weather climates. Applications include cast polymer and laminates.

Additional end-use information is available in various application sheets or directly from your AkzoNobel representative.

*Trigonox* is a registered trademark of Akzo Nobel Chemicals B.V. or affiliates in one or more territories.

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. AkzoNobel Polymer Chemicals, 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. Nothing contained herein shall be construed as granting or extending any license under any patent. Buyer 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 bulletins on the subject matter covered. The user 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. You may not copy this document to a website.

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