

Trigonox 63a

Methyl ethyl ketone peroxide and acetylacetone peroxide, in solvent mixture

Trigonox 63a is a phthalate-free blended initiator for longer working time and faster curing of promoted unsaturated polyester resins at ambient conditions. Used in place of MEKP to extend open time and reduce gel to peak.

CAS number
1338-23-4; 37187-22-7

EINECS/ELINCS No.
215-661-2; 253-384-9

TSCA status
listed on inventory

Specifications

Appearance	Clear liquid
Total active oxygen	6.4-6.6 %

Characteristics

Density, 20 °C	1.040 g/cm ³
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Applications

Trigonox 63a is phthalate-free blended initiator used for the curing of unsaturated polyester, vinyl ester and acrylic thermoset resins at ambient conditions in conjunction with metal salts. Trigonox 63a provides for a similar gel to MEKP's with a shorter gel-to-peak interval, resulting in faster demolding in applications such as cast polymer, laminates and RTM. Additional end-use information is available in Nouryon's application brochures.

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.	30°C
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Note

When stored under the recommended storage conditions, Trigonox 63a will remain within the Nouryon specifications for a period of at least 3 months after delivery.

Packaging and transport

Trigonox 63a is packed in non-returnable one gallon polyethylene containers of 8 lb net weight (packed 4 per case). Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Trigonox 63a is classified as Organic peroxide type D; liquid, Division 5.2; UN 3105.

Safety and handling

Keep containers tightly closed. Store and handle Trigonox 63a 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 63a. 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, 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.