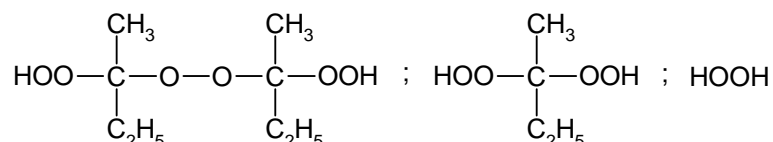




## CADOX<sup>®</sup> M-50a

**Product description** Methyl ethyl ketone peroxide, solution in 2,2,4-trimethyl-1,3-pentanediol diisobutanoate



CAS No. : 1338-23-4  
EINECS/ELINCS No. : 215-661-2  
TSCA status : listed on inventory

**Specifications** Appearance, 20-25°C : Clear liquid  
Total active oxygen : 8.9%

**Characteristics** Density, 20°C : 1.0 g/cm<sup>3</sup>

**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<sub>s</sub> max.) for each organic peroxide product.

For CADOX M-50a T<sub>s</sub> max. = 30°C (86°F)

When stored under these recommended storage conditions CADOX M-50a will remain within the AkzoNobel specifications for a period of at least 6 months from date of manufacture.

**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 CADOX M-50a 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

## Packaging and transport

*CADOX M-50a* is packed in non-returnable, 1 gallon polyethylene containers of 8 lb net weight (4 per case) and in 5 gallon polyethylene containers of 40 lb net weight.

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

*CADOX M-50a* 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 *CADOX M-50a* 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 Material Safety Data Sheet (MSDS) for further information on the safe storage, use and handling of *CADOX M-50a*. This information should be thoroughly reviewed prior to acceptance of this product.

The MSDS is available at [www.akzonobel.com/polymer](http://www.akzonobel.com/polymer).

## Applications

*CADOX M-50a* is a multipurpose catalyst for the room temperature cure of promoted unsaturated polyester resins. Unpromoted unsaturated polyester resins can be heat-cured with *CADOX M-50a* in the temperature range of 100-127°C. *CADOX M-50a VR* also has a high MEKP monomer content which may provide faster gel times in some resin systems.

Additional end-use information is available in AkzoNobel's brochures.

*CADOX M-50a* is also available as red liquid.

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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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