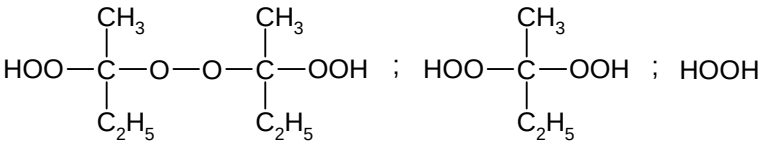
AkzoNobel
Tomorrow's Answers Today

Cadox® 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^3

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 *Cadox* M-50a T_s 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 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 *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.

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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