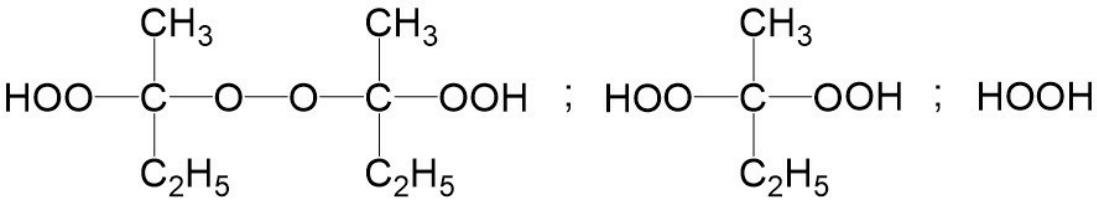
Butanox M-50 RED YM 1:6

Methyl ethyl ketone peroxide in dimethyl phthalate



Butanox® M-50 RED YM 1:6 is a general purpose MEKP for the curing of unsaturated polyester resins in the presence of a cobalt accelerator at room and elevated temperatures, including a red indicator system.

CAS number
1338-23-4

EINECS/ELINCS No.
215-661-2

TSCA status
listed on inventory

Specifications

Appearance	Red liquid
Total active oxygen	8.8-9.0 %

Characteristics

Density, 20 °C	1.180 g/cm^3
Viscosity, 20 °C	24 mPa.s
Water content	3.0 %

Applications

Butanox® M-50 RED YM 1:6 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. Butanox® M-50 RED YM 1:6 offers all the advantages of a standard MEKP i.e. Butanox® M-50. The Butanox® M-50 RED YM 1:6 includes a red indicator system that in most cases almost disappears during cure. The red color is there when you need it i.e. during the mixing step, but will fade away during cure. The curing system Butanox® M-50 RED YM 1:6/cobalt accelerator is particularly suitable for the curing of gelcoat resins, laminating resins, lacquers and castings; moreover the manufacture of light resistant parts may be possible contrary to the curing system benzoyl peroxide/amine accelerator. Practical experience throughout many years has proven that by the guaranteed low water content and the absence of polar compounds in Butanox® M-50 RED YM 1:6, this peroxide is very suitable in GRP products for e.g. marine applications. For room temperature application it is necessary to use Butanox® M-50 RED YM 1:6 together with a cobalt accelerator (e.g. Accelerator NL-49P).

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	70°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 these recommended storage conditions, Butanox® M-50 RED YM 1:6 will remain within the Nouryon specifications for a period of at least 3 months after delivery.

Packaging and transport

The standard packaging is a 30 l HDPE can (Nourytainer®) for 30 kg peroxide solution. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Butanox® M-50 RED YM 1:6 is classified as Organic peroxide type D; liquid; Division 5.2; UN 3105.

Safety and handling

Keep containers tightly closed. Store and handle Butanox® M-50 RED YM 1:6 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 Butanox® M-50 RED YM 1:6. 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, acetic acid, formic acid, propionic acid, methyl ethyl ketone

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