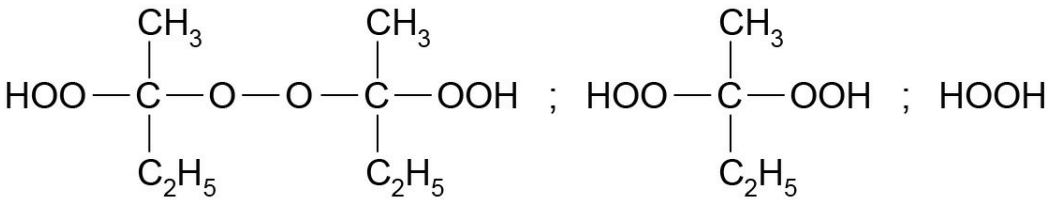
Butanox M-60 VRD

Methyl ethyl ketone peroxide



The work horse in GRP curing systems, with 10% higher active oxygen compared to Butanox M-50, including a VR system. Medium-reactive, general purpose methyl ethyl ketone peroxide (MEKP) with guaranteed low water content, used for curing unsaturated polyester resins in the presence of a cobalt accelerator at room and elevated temperatures.

CAS number
1338-23-4

EINECS/ELINCS No.
215-661-2

TSCA status
listed on inventory

Specifications

Appearance	Clear red liquid
Total active oxygen	9.8-10.0 %

Characteristics

Density, 20 °C	1.170 g/cm^3
Viscosity, 20 °C	25 mPa.s

Applications

Butanox M-60 VRD 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-60 VRD is a 10% higher concentrated version of Butanox M-50 VR. Butanox M-60 VRD offers all the advantages of a standard MEKP i. e. Butanox M-60. The Butanox M-60 VRD includes a vanishing red indicator system that in most cases virtually disappears during cure. The red color is there when you need it i. e. during the mixing step, but will dissapear during cure.

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	60°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 the recommended storage conditions, Butanox M-60 will remain within the Nouryon specifications for a period of at least 6 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-60 VRD is classified as Organic peroxide type D; liquid; Division 5. 2; UN 3105.

Major decomposition products

Carbon dioxide, water, acetic acid, formic acid, propionic acid, methyl ethyl ketone.

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