

# Brasnox DM-50 RED

Methyl ethyl ethyl ketone in dimethyl phthalate



Brasnox DM-50 RED is a methyl ethyl peroxide and dimethyl phthalate indicated for curing unsaturated polyester resin and vinyl ester.

CAS number  
1338-23-4

EINECS/ELINCS No.  
215-661-2

TSCA status  
listed on inventory

## Specifications

Active oxygen	8.80-9.00 %
Appearance	Clear red liquid

## Characteristics

Density, 25°C	1.14 – 1.18 g/cm <sup>3</sup>
Water content	≤ 3.00 %

## Applications

Brasnox® DM-50 RED is a polymerization initiator in unsaturated polyester and vinyl ester resins at room temperature. Applications in hand lay-up, spray-up, continuous lamination of tiles, filament winding and closed molding, can be used for the application of gelcoats and plastic putty.

## 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.	30°C
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Note

When stored under the recommended storage conditions, Brasnox® DM-50 RED will remain within the Nouryon specifications for a period of at least 6 months after delivery.

## Packaging and transport

The standard packaging is an HDPE container for a 25 kg peroxide solution. Packaging and transport meet international regulations. For availability of other packaged quantities, contact your Nouryon representative. Brasnox® DM-50 RED is classified as type D organic peroxide; liquid; Division 5.2; UN 3105.

## Major decomposition products

Carbon dioxide, Water, Acetic acid, Formic acid, Propanoic acid, Methyl ethyl ketone

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The logo for Nouryon, featuring a stylized blue 'N' followed by the word 'ouryon' in a blue sans-serif font.