

## Butanox LPT-IN VRN

Methyl ethyl ketone peroxide



Butanox® LPT-IN VRN is a methyl ethyl ketone peroxide (MEKP) for curing unsaturated polyester resins in the presence of a cobalt accelerator at room and elevated temperatures. Very suitable for extra slow-gelling and marine applications, and specially designed for filament winding. It includes a vanishing 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	8.4-8.6 %

### Characteristics

Density, 20°C	1.017 g/cm <sup>3</sup>
Viscosity, 20°C	32.4 mPa.s

### Applications

Butanox® LPT-IN VRN is a 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® LPT-IN VRN gives in comparison with most other ketone peroxides a significantly longer gel time and is therefore particularly suitable for those applications where a long gel time or production time is required, for instance in the production of large parts and in filament winding. The Butanox® LPT-IN VRN includes a vanishing red indicator system that virtually disappears during cure. The red color is there when you need it i.e. during the mixing step, but will disappear during cure.

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
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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).
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## 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® LPT-IN VRN will remain within the Nouryon specifications for a period of at least 6 months after delivery.

The standard packaging is a 30 l HDPE can (Nourytainer®) for 30 kg peroxide solution. In Asia Pacific the standard packaging is a 30 l HDPE can for 20 kg peroxide solution. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Butanox® LPT-IN VRN is classified as Organic peroxide type D; liquid; Division 5. 2; UN 3105.

### Proper shipping name

Keep containers tightly closed. Store and handle Butanox® LPT-IN VRN 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® LPT-IN VRN. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at [nouryon.com/sds-search](http://nouryon.com/sds-search).

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

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. Nouryon, 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. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer 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 information on the subject matter covered. The customer 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. Don't copy this document to a website.

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