Butanox P-50

Methyl isopropyl ketone peroxide

Butanox® P-50 is a high-reactive methyl isopropyl ketone peroxide (MIPKP) for the optimal cure of unsaturated polyester resins in the presence of a cobalt accelerator at room and elevated temperatures. Provides less shrinkage and improved exterior quality of the gelcoat.

CAS number	EINECS/ELINCS No.
33373-82-7, 13921-99-8	442-480-8

TSCA status
listed on inventory

Specifications

Appearance	Clear colorless liquid
Total active oxygen	6.3-6.5 %

Characteristics

Density, 20 °C	1.1569 g/cm^3
Viscosity, 20 °C	20 mPa.s

Applications

Butanox® P-50 is a high reactive methyl isopropyl ketone peroxide (MIPKP) for the optimal curing of unsaturated polyester resins in the presence of a cobalt accelerator at room and elevated temperatures. The curing system Butanox® P-50/cobalt accelerator is particularly suitable for the curing of gelcoat resins and laminating resins used for the production of boat hulls, deck parts, truck panels, car panels or sanitary ware products. Practical experience has proven that by the guaranteed low water content and the absence of polar compounds in Butanox® P-50, this peroxide is very suitable in GRP products for high demanding end-markets like marine applications (boat building).

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	50°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
Ts Min.	-10°C
Note	When stored under the recommended storage conditions, Butanox® P-50 will remain within the Nouryon specifications for a period of at least six months after delivery.

Packaging and transport

The standard packaging is a 30 l HDPE can (Nourytainer®) for 25 kg peroxide solution. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Butanox® P-50 is classified as Organic peroxide type F; liquid; Division 5. 2; UN 3109.

Safety and handling

Keep containers tightly closed. Store and handle Butanox® P-50 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® P-50. 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, acetone, propane, acetic acid, isopropyl acetate,

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