

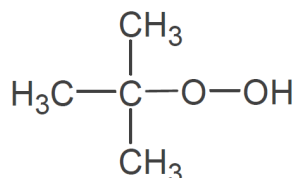
PEROXAN BHP-70

Hydroperoxide / Curing

Description

tert-Butyl hydroperoxide
70%, Solution in water

PEROXAN BHP-70 is used for the curing of unsaturated polyester resins and polymerization of styrene alkyde mixtures.



Molecular weight: **90.1**
CAS No.: **75-91-2**

Technical data

Appearance: **clear liquid**
Peroxide assay: **appx. 70%**
Active oxygen assay: **appx. 12.43%**
Density at 20°C: **0.93 g/cm³**

Storage

Maximum storage temperature (Ts max): **30°C**
Minimum storage temperature (Ts min): **5°C** to prevent freezing
Storage stability as from date of delivery: **6 months**

Hazardous reactions

Keep packaging tightly closed in a well ventilated place at indicated storage temperature. Keep away from reducing agents e.g. amines, acids, alkalis, heavy metal compounds (e.g. accelerators, driers, metal soaps). Never weigh out in storage room.

Oxidizing agent. Decomposes violently under the influence of heat or by contact with reducing agent. Never mix with accelerators.

Organic Peroxides are more or less stable products but will decompose under the influence of heat. To minimize a loss of quality during storage, it is important that the recommended maximum storage temperature is not exceeded. If a minimum storage temperature is given, an undesirable process such as a solidification or phase separation, is known to occur below this temperature.

Safety characteristics

SADT: **80°C**

The SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which a self accelerating decomposition may occur.

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Application

PEROXAN BHP-70 may be used for hot curing of UP resins at temperatures above 110°C. The use of cobalt accelerator will not decrease the kick-off temperature, therefore PEROXAN BHP-70 is not suitable for curing at ambient temperature.

Additional dosage of PEROXAN BHP-70 slows down the curing process in Ketone peroxide/Cobalt accelerator systems, and a longer gel time, longer curing time and a decrease in the peak exotherm temperature can be obtained.

Furthermore, PEROXAN BHP-70 is used in polymerization of alkyde styrene resins.

Depending on working conditions, the following peroxide and accelerator dosage levels are recommended:

PEROXAN BHP-70: 0,2 to 1,0 phr

Packaging

25kg container

Major decomposition products

Ethane, Methane, tert-Butanol

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN BHP-70. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at www.pergan.com or through contacting Pergan directly.

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