

PEROXAN CU-80 L

Hydroperoxide / Polymerization

Description Cumyl hydroperoxide

80%, Solution in cumene

PEROXAN CU-80 L is used for the copolymerization of styrene/butadiene (SBR rubber) and acryl nitrile/butadiene/styrene (ABS rubber) as well as for the emulsion polymerization of (meth-)acrylates and acrylic resins dispersions.

 Molecular weight:
 152.2

 CAS No.:
 80-15-9

Technical data Appearance: clear, colourless or light yellow liquid

Peroxide assay: appx. 80%
Active oxygen assay: appx. 8.41%
Density at 20°C: 1.04 g/cm³

Half life time in chlorobenzene:

t ½ 10h 1h 1min
bei 140°C 166°C 222°C

Solubility Insoluble in water, soluble in various organic solvents

Storage Maximum storage temperature (Ts max): 30°C Minimum storage temperature (Ts min): 0°C

Storage stability as from date of delivery: 6 months

Hazardous reactionsKeep 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 Flash point: >SADT°C 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 Copolymerization of styrene/butadiene (SBR rubber) and acryl nitrile/ butadiene/styrene (ABS

rubber):

The emulsion polymerization can be initiated through a redox mechanism at low temperatures.

Suitable reducing agents are Fe-salts, sulphites, dithionites, etc.

Temperature range: 5 to 20°C

Dosing: 0,1 to 0,3 phr

Polymerization of (meth-)acrylates and acrylic resins dispersions:

The emulsion polymerization can be initiated through a redox mechanism at low temperatures. Suitable reducing agents are Fe-salts, sulphites, dithionites, ascorbinic acid or sugar, etc.

Temperature range: 50 to 80°C

Dosing: 0,1 to 0,5 phr

Packaging 25kg container

200kg drum

Major decomposition products 2-Phenylisopropanol, acetophenone, Methane,

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling Safety and handling

of PEROXAN CU-80 L. 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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