

## **PEROXAN DB-50**

## **Dialkyl peroxide / Polymerization**

**Description** Di-tert-butyl peroxide

50%, Solution in odorless white spirits

PEROXAN DB-50 is used for the (co)polymerization of ethylene.

Molecular weight: 146.2 CAS No.: 110-05-4

Technical data Appearance: clear liquid

Peroxide assay: appx. 50%
Active oxygen assay: appx. 5.47%
Density at 20°C: 0.8 g/cm³

Half life time in chlorobenzene:

t 1/2	10h	1h	1min
bei	121°C	141°C	183°C

Storage Maximum storage temperature (Ts max): 40°C Storage stability as from date of delivery: 6 months

Hazardous reactions 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 SADT in IBC: 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 Due to its high volatility, PEROXAN DB-50 requires precautions in handling and metering.

Polymerization of ethylene:

PEROXAN DB-50 is used for high pressure polymerization of ethylene in both autoclave and tubular processes, usually in combination with other peroxides of varying degrees of activity.

Temperature range: 240 to 280°C Light-off temperature at 2300 bar: 265°C

Packaging 20kg container

160kg drum 900kg IBC

Bulk delivery of PEROXAN DB-50 in a 1,25 mÂ3 stainless steel intermediate bulk container (IBC) is

possible in a number of countries.

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

of PEROXAN DB-50. This information should be thoroughly reviewed prior to acceptance of this product. The

 ${\tt MSDS} \ is \ available \ for \ downloading \ at \ {\tt www.pergan.com} \ or \ through \ contacting \ Pergan \ directly.$ 

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