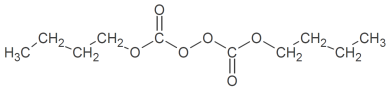
PEROXAN NBC-50

Peroxydicarbonate / Polymerization

Description

Di-n-butyl peroxydicarbonate
50%, Solution in isododecane

PEROXAN NBC-50 is used for the (co)polymerization of ethylene, vinylchloride and vinylidenechloride.



Molecular weight:	**234.3**
CAS No.:	**16215-49-9**

Technical data

Appearance:	**clear liquid**
Peroxide assay:	**appx. 50%**
Active oxygen assay:	**appx. 3.41%**
Density at -15°C:	**0.88 g/cm³**

Half life time

in chlorobenzene:

$t_{½}$	10h	1h	1min
bei	**49°C**	**65°C**	**99°C**

Storage

Maximum storage temperature (Ts max):	**-15°C**
Storage stability as from date of delivery:	**3 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:	5°C
Emergency temperature:	-5°C
Control temperature:	-15°C

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

The emergency temperature is derived from the SADT. It is the temperature at which emergency actions have to be taken. The control temperature is the maximum temperature at which the product can be transported safely.

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Peroxydicarbonate / Polymerization

Application	Polymerization of ethylene: PEROXAN NBC-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: 120 to 170°C Light-off temperature at 2300 bar: 140°C Polymerization of vinylchloride: PEROXAN NBC-50 may be used in polymerization and copolymerization of vinylchloride in mass or suspension processes, usually in combination with other peroxides of varying degrees of activity to increase reactor efficiency. Temperature range: 40 to 65°C Dosing: 0,02 to 0,1 phr Other applications: PEROXAN NBC-50 may also be used for the (co)polymerization of vinylidenechloride.
Packaging	**25kg container**
Major decomposition products	**butanol, Carbon dioxide**
Safety and handling	Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN NBC-50. 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.

The information presented herein is true and accurate and to the best of our knowledge, but without any guarantee. Since the conditions of use are beyond our control we disclaim any liability, including for patent infringement, incurred in connection with the use of these products, data or suggestions.

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