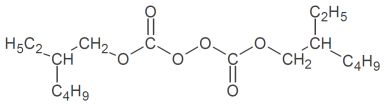
PEROXAN EPC-50 WN-A

Peroxydicarbonate / Polymerization

Description

Di-(2-ethylhexyl)-peroxydicarbonate
50%, in water and methanol

PEROXAN EPC-50 WN-A is used for the (co)polymerization of vinylchloride and vinylidenechloride.



Molecular weight:	**346.5**
CAS No.:	**16111-62-9**

Technical data

Appearance:	**white emulsion**
Peroxide assay:	**appx. 50%**
Active oxygen assay:	**appx. 2.31%**

Half life time

in chlorobenzene:

$t_{½}$	10h	1h	1min
bei	**47°C**	**64°C**	**99°C**

Storage

Maximum storage temperature (Ts max):	**-15°C**
Minimum storage temperature (Ts min):	**-20°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	SADT in IBC:	0°C
Emergency temperature:	-5°C	Emergency temperature in IBC:	-10°C
Control temperature:	-15°C	Control temperature in IBC:	-20°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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Application	Polymerization of vinylchloride: PEROXAN EPC-50 WN-A may be used in polymerization and copolymerization of vinylchloride. Reasons to use a water based peroxide emulsion instead of a solvent based peroxide are the following: - Enhanced safety - Easy to use (pumpable) in "closed reactor technology" - Easy to dilute with water Temperature range: 40 to 65°C Dosing: 0,05 to 0,25 phr Other applications: PEROXAN EPC-50 WN-A may also be used for the (co)polymerization of vinylidenechloride.
Packaging	**25kg container** **1100kg IBC** Bulk delivery of PEROXAN EPC-50 WN-A in a 1,25 mÂ³ stainless steel intermediate bulk container (IBC) is possible in a number of countries.
Major decomposition products	**2-Ethylhexanol, Carbon dioxide**
Safety and handling	Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN EPC-50 WN-A. 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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