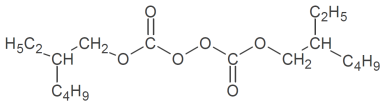
PEROXAN EPC S

Peroxydicarbonate / Polymerization

Description

Di-(2-ethylhexyl)-peroxydicarbonate
95%, Liquid

PEROXAN EPC-S is used for the (co)polymerization of ethylene, vinylchloride, vinylidenechloride, acrylates and methacrylates.



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

Technical data

Appearance:	**clear liquid**
Peroxide assay:	**min. 95%**
Active oxygen assay:	**min. 4.39%**

Half life time

in chlorobenzene:

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

Storage

Maximum storage temperature (Ts max):	**-20°C**
Minimum storage temperature (Ts min):	**-30°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:	0°C
Emergency temperature:	-10°C
Control temperature:	-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 ethylene: PEROXAN EPC-S 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: 130 to 180°C Light-off temperature at 2300 bar: 142°C Polymerization of vinylchloride: PEROXAN EPC-S may be used in polymerization and copolymerization of vinylchloride. Temperature range: 40 to 65°C Dosing: 0,01 to 0,075 phr Polymerization of acrylates and methacrylates: PEROXAN EPC-S can be used as initiator for the solution, bulk and suspension (co)polymerization of acrylates and methacrylates. Temperature range: 40 to 80°C Dosing: 0,03 to 0,075 phr Other applications: PEROXAN EPC-S may also be used for the (co)polymerization of vinylidenechloride.
Packaging	**25kg container**
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 S. 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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