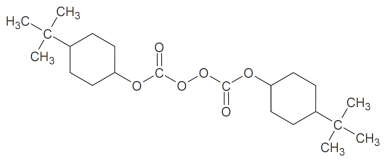
PEROXAN BCC-40 W

Peroxydicarbonate / Polymerization

Description

Di-(4-tert-butyl-cyclohexyl)-peroxydicarbonate
40%, Suspension in water

PEROXAN BCC-40 W is used for the (co)polymerization of vinylchloride and vinylidenechloride.



Molecular weight:	**398.5**
CAS No.:	**15520-11-3**

Technical data

Appearance:	**white suspension**
Peroxide assay:	**appx. 40%**
Active oxygen assay:	**appx. 1.6%**
Density at 10°C:	**1 g/cm³**

Half life time

in chlorobenzene:

$t_{½}$	10h	1h	1min
bei	**48°C**	**64°C**	**98°C**

Storage

Maximum storage temperature (Ts max):	**20°C**
Minimum storage temperature (Ts min):	**5°C**
Storage stability as from date of delivery:	**3 months**

Hazardous reactions

Keep 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

SADT:	40°C	SADT in IBC:	40°C
Emergency temperature:	35°C	Emergency temperature in IBC:	35°C
Control temperature:	30°C	Control temperature in IBC:	30°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 BCC-40 W 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.

Reasons to use a water based peroxide suspension are the following:
- Enhanced safety
- Solvent free. No contamination of the VCM recycle stream
- Enhancement of PVC purity
- Easy to use (pumpable) in "closed reactor technology"
- Easy to dilute with water

PEROXAN BCC-40 W is especially suitable for the production of micro-S-PVC.

Temperature range: 40 to 65°C
Dosing: 0,08 to 0,4 phr

Other applications:
PEROXAN BCC-40 W may also be used for the (co)polymerization of vinylidenechloride.

Packaging

25kg container
900kg IBC

Bulk delivery of PEROXAN BCC-40 W in a 1,00 mÂ³ plastic intermediate bulk container (IBC) is possible in a number of countries.

Major decomposition products

4-tert-Butylcyclohexanol, Carbon dioxide

Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN BCC-40 W. 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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