

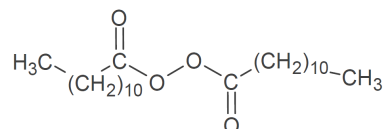
# PEROXAN LP-40 W

## Diacyl peroxides / Polymerization

### Description

Dilauroyl peroxide  
40%, Suspension in water

PEROXAN LP-40 W is used for the (co)polymerization of vinylchloride, vinylidenchloride, acrylates and methacrylates.



Molecular weight:

**398.6**

CAS No.:

**105-74-8**

### Technical data

Appearance:

**white suspension**

Peroxide assay:

**appx. 40%**

Active oxygen assay:

**appx. 1.61%**

Density at 20°C:

**1 g/cm<sup>3</sup>**

### Half life time

in chlorobenzene:

| $t_{1/2}$ | 10h         | 1h          | 1min         |
|-----------|-------------|-------------|--------------|
| bei       | <b>61°C</b> | <b>79°C</b> | <b>117°C</b> |

### Storage

Maximum storage temperature (Ts max):

**30°C**

Minimum storage temperature (Ts min):

**5°C** to prevent freezing

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:

**50°C**

SADT in IBC:

**50°C**

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

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### Application

Polymerization of vinylchloride:

PEROXAN LP-40 W may be used in suspension polymerization of vinylchloride. Very often, PEROXAN LP-40 W is combined with a more active initiator such as a peroxydicarbonate 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 LP-40 W is especially suitable for the production of micro-S-PVC.

Temperature range: 50 to 70°C

Dosing: 0,2 to 0,8 phr

Polymerization of acrylates and methacrylates:

PEROXAN LP-40 W can be used as initiator for the polymerization of acrylates and methacrylates as a replacement for 2,2'-Azobis(isobutyronitril) (PEROXAN AZDN).

Temperature range: 60 to 90°C

Dosing: 0,2 to 0,8 phr

Other applications:

PEROXAN LP-40 W may also be used for the polymerization of vinylidenchloride.

### Packaging

**25kg container**

**900kg IBC**

Bulk delivery of PEROXAN LP-40 W in a 1,00 m<sup>3</sup> plastic intermediate bulk container (IBC) is possible in a number of countries.

### Major decomposition products

**Docosane, Carbon dioxide, Undecane, Undecyl dodecanoate**

### Safety and handling

Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN LP-40 W. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available for downloading at [www.pergan.com](http://www.pergan.com) or through contacting Pergan directly.

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