## PEROXAN BEC

## Peroxyester / Polymerization

## Description

## Technical data

Half life time

## Solubility

Storage

## Safety characteristics

The Peroxide Company

## PEROXAN BEC

## Peroxyester / Polymerization

| Application | Polymerization of ethylene: |
| :---: | :---: |
|  | PEROXAN BEC 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: 220 to $270^{\circ} \mathrm{C}$ |
|  | Light-off temperature at 2300 bar: $220^{\circ} \mathrm{C}$ |
|  | Polymerization of styrene: |
|  | PEROXAN BEC may be used in polymerization and copolymarization of styrene. |
|  | In a mass process PEROXAN BEC can be used to increase polymerization rates. |
|  | In suspension polymerization processes, PEROXAN BEC is often used for reduction of residual styrene content during the final polymerization stage. PEROXAN BEC is a benzene-free replacement of tert-Butyl peroxybenzoate (PEROXAN PB). |
|  | Temperature range: 100 to $130^{\circ} \mathrm{C}$ |
|  | Dosing: 0,02 to 0,1 phr |
|  | Polymerization of acrylates and methacrylates: |
|  | PEROXAN BEC can be used as initiator for the solution, bulk and suspension (co)polymerization of acrylates and methacrylates. |
|  | Temperature range: 90 to $130^{\circ} \mathrm{C}$ |
|  | Dosing: 0,1 to 1 phr |
| Packaging | 25kg container |
| Major decomposition products | 2-Ethylhexanol, Carbon dioxide, tert-Butanol |
| Safety and handling | Please refer to the material safety data sheet (MSDS) for information concerning safe storage, use and handling of PEROXAN BEC. 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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