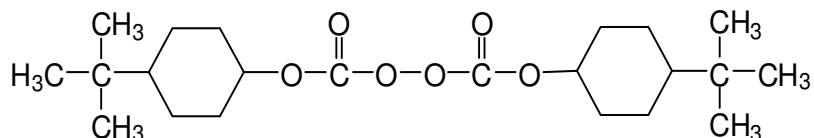


BCHPC

Bis(4-tert.butylcyclohexyl)-peroxydicarbonate
CAS#15520-11-3
Powder, technically pure

Structural Formula



Description

White, free-flowing powder, consisting of technically pure Di(4-tert.butylcyclohexyl)-peroxydicarbonate. This cycloaliphatic peroxydicarbonate is used as an initiator in the curing of unsaturated polyester resins.

Technical Data

Appearance	White, free-flowing powder
Peroxide content	Ca. 95.0 % w/w
Active oxygen	Ca. 3.81 % w/w
De-sensitising agent	None
Bulk density	Ca. 0.50 kg/l
Melting point	Ca. 82 °C
Critical temperature (SADT)	Ca. 45 °C
"Kick-off" temperature	50 °C
Recommended storage temperature	below 20 °C
Maximum transport temperature	30 °C
Maximum storage temperature	20 °C
Maintenance of activity as from date of delivery	6 months

This product is in compliance with the ElektroG (EU-Directives: RoHS 2002/96/EG, WEEE 2002/96/EG)

Half-life Data

10h/1 h/1 min (0.1 m / benzene): 41/57/90 °C

Application

POLYESTER CURING:

Curing agent for unsaturated polyester resins in combination with thermally more stable peroxides. Usage level: 1-2% as supplied. "Shelf-life" (gel time of resin + peroxide) some weeks at ambient temperature, depending on resin type, fillers, pigments.

“Pot-life” (gel time of resin + peroxide + accelerator) in combination with more stable peroxides (perester) several days, depending on temperature and dosage. Shelf life and pot life can be prolonged considerably by adding 0.1-0.3% Inhibitor BC-500.

CURING CHARACTERISTICS:

In the range of 50 °C (“kick-off” temperature) curing rate is not very high unless there is a reaction exotherm (e.g. within a heat retaining mould). Good curing performance can only be achieved by addition of thermally more stable peroxides.

CURING PROCESSES:

Mainly pultrusion, hot press moulding, wet press moulding, CIPP (cured-in-place-pipes).

Packaging

The standard packaging of BCHPC is 20 kg.

Disclaimer

This information and all further technical advice are reflecting our present knowledge and experience based on internal tests with local raw materials with the purpose to inform about our products and applications. The information should not be construed as guaranteeing specific properties of products described or their suitability for a particular application, nor as providing complete instructions for use. The information implies no guarantee for product and shelf life properties, nor any liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. We reserve the right to make any changes according to technological progress or further developments.

Application and usage of our products based on our technical advice is out of our control and sole responsibility of the user. The user is not released from the obligation to conduct careful inspection and testing of incoming goods in order to verify the suitability for the intended application.

United Initiators
EU
T: +49 89 74422 237
F: +49 89 74422 6237
cs-initiators.eu@united-in.com

United Initiators
Nafta
T: +1 800 231 2702
F: +1 440 323 0898
cs-initiators.nafta@united-in.com

United Initiators
China
T: +86 20 6131 1370
F: +86 139 2503 8952
cs-initiators.cn@united-in.com

United Initiators
Australia
T: +61 2 9316 0046
F: +61 2 9316 0034
cs-initiators.au@united-in.com

www.united-initiators.com

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