

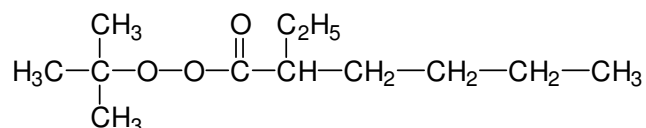
## NOROX®410-50OMS

tert. Butylperoxy-2-ethyl hexanoate

CAS#3006-82-4

50%, solution in odorless mineral spirits

### Structural Formula



### Description

Colorless, mobile liquid, consisting of ca. 50% w/w tert. Butylperoxy-2-ethyl hexanoate, desensitized with aliphatic hydrocarbons. This branched, aliphatic perester is used as an initiator (radical source) in the polymerization of monomers, particularly methacrylates.

### Technical Data

Appearance	Colorless liquid
Assay	ca. 50 % w/w
Active oxygen	ca. 3.8 % w/w
De-sensitising agent	Aliphatics (b.p. > 170 °C)
Density at 20 °C	ca. 0.829 g/cm <sup>3</sup>
Viscosity at 20 °C	ca. 2 mPa·s
Refractive index at 20 °C	ca. 1.423
Critical temperature (SADT)	ca. 40 °C
Cold storage stability	To below -25 °C
Recommended storage temperature	Below 10 °C
Maximum transport temperature	20 °C
Storage stability as from date of delivery	3 months

### Half-life Data

Half-life time: 10h/1h/1min (0.1 m / benzene): 74 °C/92 °C/130 °C

### Application

#### OTHER MONOMERS:

Initiator for the polymerization of (meth-) acrylates and allyl monomers, where necessary in combination with more stable peresters (tert. butyl peroxy benzoate or tert. butylperoxy-3,5,5-trimethyl hexanoate). Temperature range: 80-120 °C. Usage level: 0.1-1.5% as supplied.

Further information on suitable initiators for the polymerization of monomers is given in our application brochures on this subject.

## Storage

Observe the recommended storage temperature range to preserve quality and usefulness and for safety reasons. Observe the safety recommendations of local regulations and codes, requirements of the local authority having jurisdiction, and your insurance provider.

## Standard Packaging

This product is packed in:

- \* Box containing 4 x 1 gallon Poly Bottles filled to 7 pounds net weight.  
Pallet quantities are 1,344 pounds (48 boxes, 28 pounds/box).
- \* 5 Gallon Unitainer filled to 30 pounds net weight.  
Pallet quantities are 900 pounds (30 containers).

## Safety & Handling

See our Safety Data Sheet for details. This material is highly hazardous and self-reactive. Avoid heating to above maximum recommended storage temperatures and confinement. Store and handle in ways evaluated by a thorough safety review following process safety management techniques.

## REACH

This material is registered under REACH.

## 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](mailto: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](mailto: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](mailto: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](mailto:cs-initiators.au@united-in.com)

[www.united-initiators.com](http://www.united-initiators.com)

Revision number: 1.0. Date: 15.09.2020. Device M: TDS.