# **Technical Data Sheet**



## TBPEH-50-AL1

tert.Butylperoxy-2-ethyl hexanoate CAS#3006-82-4 50%, solution in odorless mineral spirits

Structural Formula

$$\begin{array}{cccc} CH_{3} & O & C_{2}H_{5} \\ H_{3}C - \overset{I}{C} - O - O - \overset{II}{C} - \overset{I}{C} H_{-} CH_{2} - CH_{2} - CH_{2} - CH_{3} \\ H_{3} \end{array}$$

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**

Colorless liquid
ca. 50 % w/w
ca. 3.8 % w/w
Aliphatics (b.p. > 170 °C)
ca. 0.829 g/cm <sup>3</sup>
ca. 2 mPa·s
ca. 1.423
ca. 40 <i>°</i> C
To below -25℃
Below 10 ℃
20℃
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 20 Liter Jerricans filled to 30 pounds net weight. Standard 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	al advice are reflective our present transladers and experience based on internal tests with least row materials with the purpose to inform about

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