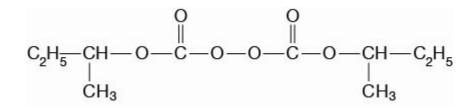
Trigonox SBP-CH60

Di-sec-butyl peroxydicarbonate, 60% solution in odorless mineral spirits



Trigonox SBP-CH60 is an initiator (60% active ingredient in odorless mineral spirits) for (co)polymerization of ethylene, vinyl chloride and vinylidine chloride. CAS number 19910-65-7

5°C: 0.92 g/cm3

EINECS/ELINCS No. 243-424-3

TSCA status listed on inventory

Specifications

Active oxygen	4.10-4.23 %
Appearance, -20 to -10°C	Clear liquid
Assay	60.0-62.0 %
Inorganic + organic hydrolysable chloride	≤100 mg/kg

Characteristics

Density

Applications

Trigonox SBP-CH60 is an efficient initiator for the production of Low Density Polyethylene (LDPE). It is used both for tubular and autoclave processes. In most cases a combination with other peroxides is used to ensure a broad reactivity range. Trigonox SBP-CH60 may be applied as an initiator for the suspension polymerization of vinyl chloride in the temperature range of 40-65°C. The resulting polymer has good thermal stability.

Half-life data

The reactivity of an organic peroxide is usually given by its half-life ($t^{1/2}$) at various temperatures. The half-life of Trigonox SBP-CH60 in chlorobenzene is:

0.1 hr	at 82°C (180°F)
1 hr	at 63°C (145°F)
10 hr	at 47°C (117°F)
Formula 1	kd=A·e-Ea/RT
Formula 2	t ¹ /2=(ln2)/kd
Еа	123.85 kJ/mole
A	3.19E+15 s-1
R	8.3142 J/mole·K
т	(273.15+°C) K

Thermal stability

Organic peroxides are thermally unstable substances, which may undergo self-accelerating decomposition. The lowest temperature at which self-accelerating decomposition of a substance in the original packaging may occur is the Self-Accelerating Decomposition Temperature (SADT). The SADT is determined on the basis of the Heat Accumulation Storage Test.

SADT	0°C (32°F)
Emergency temperature (T _e)	-10°C (14°F)
Control temperature (Tc)	-20°C (-4°F)
Method	The Heat Accumulation Storage Test is a recognized test method for the determination of the SADT of organic peroxides (see Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria - United Nations, New York and Geneva).

Storage

Due to the relatively unstable nature of organic peroxides a loss of quality can be detected over a period of time. To minimize the loss of quality, Nouryon recommends a maximum storage temperature (Ts max.) for each organic peroxide product.

Ts Max.	-20°C (-4°F)
Note	When stored according to these recommended storage conditions, Trigonox SBP- CH60 will remain within the Nouryon specifications for a period of at least 3 months after delivery.

Packaging and transport

Trigonox SBP-CH60 is packed in non-returnable, one gallon polyethylene containers of 8 lb net weight (4 per case) and in in non-returnable five gallon polyethylene containers of 35 lb net weight. Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your Nouryon representative. Trigonox SBP-CH60 is classified as Organic peroxide type C; liquid, temperature controlled; Division 5.2; UN 3113

Safety and handling

Keep containers tightly closed. Store and handle Trigonox SBP-CH60 in a dry well-ventilated place away from sources of heat or ignition and direct sunlight. Never weigh out in the storage room. Avoid contact with reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers and metal soaps). Please refer to the Safety Data Sheet (SDS) for further information on the safe storage, use and handling of Trigonox SBP-CH60. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at nouryon.com/sds-search

Major decomposition products

Carbon dioxide, methane, sec-butyl alcohol, methyl ethyl ketone

All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable. Nouryon, however, makes no warranty as to accuracy and/or sufficiency of such information and/or suggestions, as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nouryon does not accept any liability whatsoever arising out of the use of or reliance on this information, or out of the use or the performance of the product. Nothing contained herein shall be construed as granting or extending any license under any patent. Customer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes. The information contained herein supersedes all previously issued information on the subject matter covered. The customer may forward, distribute, and/or photocopy this document only if unaltered and complete, including all of its headers and footers, and should refrain from any unauthorized use. Don't copy this document to a website.

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