

# Trigonox SBPS

Di-sec-butyl peroxydicarbonate

Trigonox® SBPS is an initiator (stabilized) for (co)polymerization of vinyl chloride and vinylidene chloride.

CAS number  
19910-65-7

EINECS/ELINCS No.  
243-424-3

## Specifications

Active oxygen	≥6.69 %
Appearance, -20 to -10°C	Clear liquid
Assay	≥98.0 %
Color	20 Pt-Co / APHA max.
Inorganic + organic hydrolysable chloride	≤100 mg/kg
tert-Butyl hydroperoxide	0.25-0.35 %

## Characteristics

Density	1.06 (at 5°C ) g/cm <sup>3</sup>
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## Applications

Polymerization of ethylene: Trigonox® SBPS 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. Polymerization of vinyl chloride: Trigonox® SBPS 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.

## Thermal stability

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

SADT	0°C
Emergency temperature (T <sub>e</sub> )	-10°C
Control temperature (T <sub>c</sub> )	-20°C

## 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 (T<sub>s</sub> max.) for each organic peroxide product.

T <sub>s</sub> max.	-20°C
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### Note

When stored according to these recommended storage conditions, Trigonox® SBPS will remain within the Nouryon specifications for a period of at least 3 months after delivery.

## Packaging and transport

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## Safety and handling

Keep containers tightly closed. Store and handle Trigonox® SBPS 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® SBPS. This information should be thoroughly reviewed prior to acceptance of this product. The SDS is available at [nouryon.com/sds-search](http://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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