

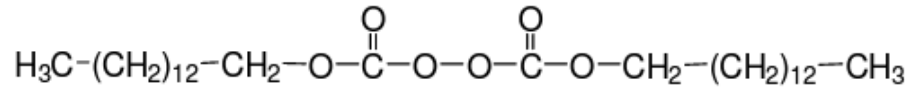
# Technical Data Sheet (TDS)

MYPC  
Polymerisation (PO)

## MYPC

Dimyristylperoxydicarbonate  
IUPAC name: Ditetradecyl peroxydicarbonate  
CAS#53220-22-7  
White, greasy flakes  
Molar mass: 514.7 g/mo

### Structural Formula



### Description

White, greasy flakes, consisting of technically pure Dimyristylperoxydicarbonate. This long-chained aliphatic peroxydicarbonate is used as an initiator (radical source) in the polymerisation of monomers, e.g. vinyl chloride.

### Technical Data

Appearance	white, greasy flakes
Assay	ca. 97 % w/w
Active oxygen (AO)	ca. 3.01 % w/w
Bulk density at 25 °C	ca. 440 kg/m <sup>3</sup>
Melting point	ca. 45 °C
Critical temperature (SADT)	ca. 35 °C
Maximum transportation temperature	20 °C
Recommended storage temperature	below 20 °C
Storage stability as from date of delivery	6 months

### Standard Packaging

20 kg cardboard

### Half-life Data

10 h / 1 h / 1 min (benzene, 0.1 mol/L)    41 °C / 57 °C / 90 °C

# Technical Data Sheet (TDS)

MYPC  
Polymerisation (PO)

## Application

### VINYLCHLORIDE:

Initiator for the polymerisation of vinyl chloride in bulk or suspension.

Temperature range: 45 - 60 °C

Dosage level: 0.03 - 0.15 %

Particular advantages:

- less crust formation in the reactor
- less "fish-eyes" in the polymer

We recommend a combination with thermally more stable peroxides, e.g. Dilauroyl peroxide (LP).

A well-balanced combination produces an almost constant rate of polymerisation throughout the reaction period.

The flakes enable almost dust-free handling (pouring, dosing).

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

## Decomposition Products

Possible detectable decomposition products: Myristylalcohol, Carbon dioxide

## Storage

Avoid any source of heat, light, humidity and protect the product from impurities. Keep within save temperature limits.

## Disclaimer:

The information contained herein and all further technical advice that may be provided by United Initiators reflects our current knowledge and experience based on our internal research and development as to our products and applications. United Initiators does not make any warranties about the information provided as to specific properties of products described, their suitability for a particular application and representing complete instructions for use. Additionally, United Initiators does not make any warranties in respect of product and shelf life properties. We are not legally responsible and liable for the use of any information provided, 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, strictly at your own risk and is the sole responsibility of the user. The user is not released from the obligation to conduct careful inspection and testing of incoming products in order to verify their suitability for the intended application.

United Initiators  
**Europe**  
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)