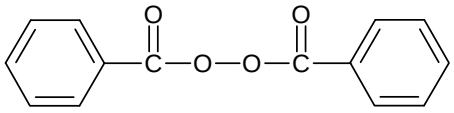
AkzoNobel
Tomorrow's Answers Today

Perkadox® L-50S-ps

Product description

Dibenzoyl peroxide, paste
50% in silicone oil



Molecular weight	: 242.2
Active oxygen content peroxide	: 6.61%
actual product	: 3.24-3.37%
CAS No.	: 94-36-0
EINECS/ELINCS No.	: 202-327-6
TSCA status	: listed on inventory

Perkadox L-50S-ps is a monofunctional peroxide which is mainly used for the crosslinking of silicone rubbers.

Specifications

Appearance	: White homogeneous paste
Assay	: 49.0-51.0%
Inorganic + organic hydrolysable chloride	: 0.15% max.
Water	: 1.0% max.
Particle size	: 50 μm max.

Characteristics

Density, 20°C	: 1.120 g/cm^3

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, AkzoNobel recommends a maximum storage temperature (T_s max.) for each organic peroxide.

For *Perkadox* L-50S-ps T_s max. = 30°C (86°F)

When stored under these recommended storage conditions, *Perkadox* L-50S-ps will remain within the AkzoNobel specifications for a period of at least six months after delivery.

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.

For *Perkadox* L-50S-ps SADT : 60°C (140°F)

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).

Major decomposition products

Carbon dioxide, benzene, benzoic acid

Packaging and transport

Perkadox L-50S-ps is packed in a 20 kg pail.

Both packaging and transport meet the international regulations. For the availability of other packed quantities contact your AkzoNobel representative.

Perkadox L-50S-ps is classified as Organic peroxide type E; solid, Division 5.2; UN 3108; PG II.

Safety and handling

Keep containers tightly closed. Store and handle *Perkadox* L-50S-ps 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 Material Safety Data Sheet (MSDS) for further information on the safe storage, use and handling of *Perkadox* L-50S-ps. This information should be thoroughly reviewed prior to acceptance of this product.
The MSDS is available at www.akzonobel.com/polymer.

Applications

Perkadox L-50S-ps is mainly used for the crosslinking of silicone rubbers.

- *Perkadox* L-50S-ps can easily be incorporated into a silicone rubber compound on a 2-roll mill.
- Safe processing temperature: 85°C (rheometer t_{s2} > 20 minutes).
- Typical crosslinking temperature: 105°C (rheometer t_{90} about 12 minutes).

To obtain a suitable degree of crosslinking in silicone polymers the level of dosing is recommended to be 0.7-1.4 phr.

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