Perkadox® BC-FF

Product description
Dicumyl peroxide

![Chemical Structure](image)

Molecular weight : 270.4
Active oxygen content peroxide actual product : 5.92%
Active oxygen content 5.86% min.
CAS No. : 80-43-3
EINECS/ELINCS No. : 201-279-3
TSCA status : listed on inventory

Specifications
Appearance : White crystals
Assay : 99.0% min.

Characteristics
Density : 1100 kg/m³ (68.6 lb/ft³)
Bulk density : 660 kg/m³ (41.2 lb/ft³)
Tapped bulk density : 705 kg/m³ (44.0 lb/ft³)
Melting point : 39.5°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, AkzoNobel recommends a maximum storage temperature (Tₚ max.) for each organic peroxide product.

For Perkadox BC-FF Tₚ max. = 30°C (86°F)

When stored under these recommended storage conditions, Perkadox BC-FF will remain within the AkzoNobel specifications for a period of at least 3 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 BC-FF SADT : 75°C (167°F)


Major decomposition products
Acetophenone, Methane, 2-Phenylisopropanol
Packaging and transport

Perkadox BC-FF is packed in non-returnable cartons containing 55.1 lb net weight.

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

Perkadox BC-FF is classified as Organic peroxide type F; solid, Division 5.2; UN 3110: PG I

Safety and handling

Keep containers tightly closed. Store and handle Perkadox BC-FF 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 BC-FF. This information should be thoroughly reviewed prior to acceptance of this product. The MSDS is available at www.akzonobel.com/polymer.

Applications

Perkadox BC-FF is a special purpose high temperature initiator for the curing of unsaturated polyester, vinyl ester and acrylic thermosetting resins in the temperature range of 100-140°C.

Additional end-use information is available in various application sheets or directly from your AkzoNobel representative.

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