

# Technical Data Sheet

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## BENOX®L-50E

Dibenzoyl Peroxide Paste

CAS#94-36-0

### Description

BENOX®L-50E are fine dispersions of dibenzoyl peroxide in a smooth, low viscosity, fire resistant creamy paste form. This paste can be readily dissolved in resins and monomers. This product is less hazardous and easier to use than technical or dry forms of dibenzoyl peroxide provided the plasticizer and water content are not objectionable.

### Technical Data

Dibenzoyl Peroxide:	50.0
Active oxygen	3.3%
Form:	Low Viscosity Paste
Color:	Water White
Soluble in:	Oxygenated & aromatic solvents
Slightly soluble in:	Alcohols, petroleum solvents

### Application

BENOX®L-50E is principally used as polymerization initiators and curing agents for monomeric vinyl, acrylic, styrene and unsaturated polyester/vinyl ester resins, and copolymers of these resins, provided the plasticizer and water content can be tolerated. This product has advantages over dry, granular products, and include:

1. Marked reduction of hazards involved in handling and storage.
2. The homogeneous dispersion of extremely fine particles of dibenzoyl peroxide in plasticizer dissolves more readily in resins and eliminates the hazardous practice of dissolving dry dibenzoyl peroxide in styrene, acetone, or other volatile solvents.

#### ROOM TEMPERATURE MOLDING

BENOX®L-50E can be used for room temperature curing of pre-promoted polyester and vinyl ester resins. Dimethyl or diethyl aniline are the most generally used, but another that can be used is N, N-dimethyl-p-toluidine. These promoters, or accelerators, are generally used in concentrations

between 0.01% and 0.6%, on weight of resin. The L-50E use levels can be between 0.5% and 5.0%, depending on the desired gel and cure properties.

**CAUTION:** ABSOLUTE CARE MUST BE TAKEN TO PREVENT DIRECT MIXING OF L-50E WITH ANY OTHER PROMOTER. DOING SO COULD CAUSE A VIOLENT DECOMPOSITION RESULTING IN A FIRE OR EXPLOSION.

## ADHESIVES

L-50E may be used in two-part adhesive systems based on polyester or methacrylate resins. The creamy consistency allows uniform mixing of the components.

## Packaging, Shipping, Storage, & Availability

The standard package sizes of Benox Paste Products are 50 lb. and 22.5 kg plastic pails and 386 lbs/175 kg polyethylene lined, fiberboard drum, and 55 gallon poly drum. For custom package sizes, please contact your local distributor or United Initiators, Inc.

Classification – Please refer to the L-50E Safety Data Sheet under section 14, Shipping Description.

For optimal product quality, protect product from freezing, from excessive temperatures, and attempt to maintain the product temperature between 20°C and 30°C.

### Disclaimer

This information and all further technical advice are reflecting our present knowledge and experience based on internal tests with local raw materials with the purpose to inform about our products and applications. The information should not be construed as guaranteeing specific properties of products described or their suitability for a particular application, nor as providing complete instructions for use. The information implies no guarantee for product and shelf life properties, nor any liability or other legal responsibility on our part, 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 and sole responsibility of the user. The user is not released from the obligation to conduct careful inspection and testing of incoming goods in order to verify the suitability for the intended application.

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