

EBECRYL® LEO 10801

Polyester Acrylate Oligomer

Produced following Good Manufacturing Practices (GMP)

INTRODUCTION

EBECRYL LEO 10801 is a hexafunctional polyester acrylate oligomer that provides high reactivity and the proper ink-water balance necessary for good lithographic printing. Lithographic inks based on EBECRYL LEO 10801 display excellent rheological properties ensuring good ink transfer from the printing plate to the blanket and then to the substrate, combined with good dot definition.

EBECRYL LEO 10801 has been specifically developed to formulate UV/EB curable inks with low extractables and low odor for indirect food contact applications.

PERFORMANCE HIGHLIGHTS

EBECRYL LEO 10801 is characterized by:

- Very good lithographic behavior
- Good pigment wetting

UV/EB cured products based on EBECRYL LEO 10801 are characterized by the following performance properties:

- Fast curing
- Good solvent resistance
- High gloss
- Low extractables
- Low odor

The actual properties of UV/EB cured products also depend on the selection of other formulation components such as reactive diluents, additives and photoinitiators.

SUGGESTED APPLICATIONS

EBECRYL LEO 10801 is recommended for use in:

- Lithographic and flexographic inks
- Offset OPV
- Inks and coatings for indirect food packaging and related applications

SPECIFICATIONS

	VALUE
Acid value, mg KOH/g, max.	15
Appearance	Clear dark liquid
Residual acrylic acid, ppm, max.	500
Residual solvent, ppm, max.	10
Viscosity, 25°C, cP/mPa·s	45600-52400

TYPICAL PROPERTIES

	VALUE
Density, g/ml	1.08
Functionality, theoretical	6
Molecular weight, theoretical	1500

MUTAGENICITY ASSESSMENT

The following mutagenicity studies have been conducted in compliance with Good Laboratory Practice standards and according to the specific OECD Guidelines for Testing of Chemicals as follows:

- Ames test – OECD 471
- Mouse micronucleus test – OECD 474

In conclusion, based on the weight of the evidence of available mutagenicity test results, EBECRYL LEO 10801 is considered a nongenotoxic product (more information available on request).

VISCOSITY REDUCTION

EBECRYL LEO 10801 can be diluted with the low extractable/low odor diluting acrylates EBECRYL LEO 10501⁽¹⁾ and EBECRYL LEO 10502⁽¹⁾. The specific reactive diluents used will influence performance properties such as hardness and flexibility.

(1) Product of Allnex

STORAGE AND HANDLING

Before using EBECRYL LEO 10801, consult the Safety Data Sheet for additional information on hazards, handling procedures, and recommended protective equipment.

The recommended storage temperature for EBECRYL LEO 10801 is 4°C to 40°C (39°F to 104°F). Care should be taken not to expose the product to high temperature conditions, direct sunlight, ignition sources, oxidizing agents, alkalis or acids. This might cause uncontrollable polymerization of the product with the generation of heat. Storage and handling should be in stainless steel, amber glass, amber polyethylene or baked phenolic lined containers. Procedures that remove or displace oxygen from the material should be avoided. Do not store this material under an oxygen free atmosphere. Dry air is recommended to displace material removed from the container. EBECRYL LEO 10801 should be used within 2 years of receipt.

PRECAUTIONS

Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Direct contact with this material may cause serious eye irritation and mild skin irritation. Contact may cause an allergic skin reaction. Wash thoroughly after handling. Keep container tightly closed. Use with adequate ventilation.

Please refer to the Allnex Guide to Safety and Handling of Acrylate Oligomers and Monomers for additional information on the safe handling of acrylate monomers and oligomers.

• Worldwide Contact Info: www.allnex.com •

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