EBECRYL® LEO 10101

Technical Datasheet

SELF-CURING ACRYLATE RESIN
PRODUCED FOLLOWING GOOD MANUFACTURING PRACTICES (GMP)

INTRODUCTION

EBECRYL® LEO 10101 is a self-curing multifunctional acrylate enabling the UV curing of printing inks and coatings, not requiring additional photoinitiator, which reduces the risk of migration in indirect food contact applications.
EBECRYL® LEO 10101 is specifically developed for making high reactive nicely flowing low migration Flexo inks.
EBECRYL® LEO 10101 can be used for different colours also for white! It is recommended to use 20 - 30% EBECRYL® LEO 10101 in an ink or coating to reach a correct surface and through cure.

PERFORMANCE HIGHLIGHTS

EBECRYL® LEO 10101 is characterized by:

- Low viscosity
- Good cure response

UV cured products based on EBECRYL® LEO 10101 are characterized by the following performance properties:

- Low residual odour
- Low extractables

The actual properties of UV cured products also depend on the selection of the other formulation components, such as oligomers, reactive diluent(s) and additives.

SUGGESTED APPLICATIONS

Formulated UV curable products containing EBECRYL® LEO 10101 may be applied by flexography, screen, gravure, direct or reverse roll.
EBECRYL® LEO 10101 is recommended for use in:

- Low migration Flexo inks
- Low migration overprint varnishes

TYPICAL VALUES

Density, g/cm^3	1.1
Viscosity at 25°C, mPa.s	4000
Residual acrylic acid, ppm	< 200
Residual solvent, ppm	< 10
Average molecular weight, Dalton	~1000

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
- Micronucleus test in the mouse – OECD 474

In conclusion, on the basis of the weight of the evidence of two mutagenicity test results (including one in-vivo test), EBECRYL® LEO 10101 is considered non-genotoxic (more information on request).

STORAGE AND HANDLING

Care should be taken not to expose radiation curable products to temperatures exceeding 40°C for prolonged periods or to direct sunlight. This might cause uncontrollable polymerization of the product with generation of heat.
Storage and handling should be in stainless steel, amber glass, amber polyethylene or baked phenolic lined containers. Do not store this material under an oxygen free atmosphere. Use dry air to displace material removed from the container. This material should not be stored for more than 2 years.

PRECAUTION

The following is a summary of the precautions to be taken when handling this product. Please refer to the Safety Data Sheet for further details.
The toxicological properties of this material have not been fully determined. Products of this type can be expected to be eye and skin irritant and have the potential to cause sensitization or other allergic responses. Appropriate precautions should be taken to avoid eye and skin contact and to avoid inhalation of the aerosols or vapours. Consult the relevant Safety Data Sheet for appropriate handling procedures and protective equipment prior to using this or any other material referred to in this bulletin.
See Safety Data Sheet for emergency and first aid procedures.

STATUTORY LABELING

For Statutory Labeling information, please refer to Safety Data Sheet.