

EBECRYL® P39

Polymeric Photoinitiator

March 2017



INTRODUCTION

EBECRYL P39 is a polymeric benzophenone derivative that functions as the photosensitizer in hydrogen abstraction type radical photoinitiator systems. EBECRYL P39 has been designed for use in the formulation of UV coatings that exhibit little or no odor after curing.

Recommended levels are from 8 to 10% based on total formulation. EBECRYL P39 should be used in combination with amine co-initiators such as EBECRYL P115 or EBECRYL 7100, or with amine modified acrylate resins.

EBECRYL P39 is a polymer preparation manufactured in the European Union with (pre)registered monomers/reactants and REACH compliant.

PERFORMANCE HIGHLIGHTS

EBECRYL P39 is characterized by:

- Pourable liquid

UV/EB cured products based on EBECRYL P39 are characterized by the following performance properties:

- Low odor
- Increased flexibility

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

SUGGESTED APPLICATIONS

EBECRYL P39 is recommended for use in over print varnishes where low residual odor is required.

PRECAUTIONS

Before using EBECRYL P39, see the Safety Data Sheet (SDS) for information on the identified hazards of the material and the recommended personal protective equipment and procedures.

STORAGE AND HANDLING

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. Wash thoroughly after handling. Keep container tightly closed. Use with adequate ventilation.

See the SDS for the recommended storage temperature range for EBECRYL P39.

Please refer to the allnex Guide to Safety and Handling of Acrylate Oligomers and Monomers for additional information on the safe handling of acrylates.

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SPECIFICATIONS

	VALUE
Acid Value, mg KOH/g, max.	5
Appearance	Clear liquid
Color, Gardner scale, max.	8
Viscosity, 25°C, cP/mPa·s	7000-11000

TYPICAL PHYSICAL PROPERTIES

Density, g/ml	1.19
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GRAPH I

UV ABSORBANCE SPECTRA OF EBECRYL P39
0.001 CONCENTRATION IN METHANOL

