

EBECRYL® P115

Copolymerizable Amine

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INTRODUCTION

EBECRYL P115 is a copolymerizable amine used as a hydrogen donor, or photoactivator, in ultraviolet light (UV) curable coatings and inks. When used in formulations in combination with a photosensitizer (e.g. benzophenone), EBECRYL P115 provides rapid UV cure response in air by mitigating the effects of oxygen inhibition at the coating or ink surface. Recommended levels are from 5 to 15% based on the total formulation, usually combined with 3-5% photosensitizer. EBECRYL P115 can be used with EBECRYL P39⁽¹⁾ (a polymeric benzophenone derivative) to produce UV cured coatings and inks with low residual odor.

PERFORMANCE HIGHLIGHTS

EBECRYL P115 is characterized by:

- Light color
- Low viscosity
- Improved stability vs. conventional tertiary amines
- Low volatility

UV/EB cured products based on EBECRYL P115 are characterized by the following performance properties:

- Excellent UV cure response
- Reduced odor
- No surface migration of amine
- High gloss

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

SUGGESTED APPLICATIONS

Formulated UV curable products containing EBECRYL P115 may be applied via direct or reverse roll, offset gravure, metering rod, slot die, knife over roll, air knife, curtain and immersion and spin coating methods, as well as flexographic and screen printing. EBECRYL P115 is recommended as a reactive co-initiator in the following applications:

- Overprint varnishes
- Screen and flexo inks
- Wood topcoats
- Clear coatings on paper and plastics
- Pigmented coatings

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SPECIFICATIONS

	VALUE
Appearance	Clear liquid
Color, Gardner scale, max.	2
Viscosity, 25°C, cP/mPa·s	15-25

TYPICAL PHYSICAL PROPERTIES

Density, g/ml at 25°C	0.99
Weight/amine, theoretical	238

PRECAUTIONS

Before using EBECRYL P115, 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 P115.

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