

DILUTED CHLORINATED POLYESTER RESIN

## INTRODUCTION

EBECRYL® 417 is a chlorinated polyester resin diluted with EBECRYL 50(1), ethoxylated pentaerythritol tetraacrylate, and is free from intentionally added Bisphenol A. Films of EBECRYL® 417 cured by ultraviolet light (UV) or electron beam (EB) display good adhesion to metals, plastics and paper.

## PERFORMANCE HIGHLIGHTS

UV/EB cured products containing EBECRYL® 417 are characterized by the following performance properties:

- High reactivity
- Good adhesion to plastics substrates such as PE, PP, PET, PC, OPS and PVC

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 photo initiators.

## SUGGESTED APPLICATIONS

EBECRYL® 417 is recommended for use in:

- Offset inks for plastic and metallic substrates

Formulated UV/EB curable products containing EBECRYL® 417 may be applied by lithography, flexography, screen, gravure, direct or reverse roll.

## VISCOSITY REDUCTION

EBECRYL® 417 can be diluted with reactive monomers such as 1,6-hexanediol diacrylate (HDDA)<sup>(1)</sup>, tripropylene glycol diacrylate (TPGDA)<sup>(1)</sup> propoxylated glycerol triacrylate (OTA-480)<sup>(1)</sup>, trimethylolpropane triacrylate (TMPTA)<sup>(1)</sup> and EBECRYL® 40<sup>(1)</sup>. The specific reactive diluent(s) used will influence performance properties such as odor, adhesion, hardness and flexibility.

<sup>(1)</sup> products of allnex.

## TYPICAL PROPERTIES

|                            |              |
|----------------------------|--------------|
| Acid value, mg KOH/g       | max. 15      |
| Appearance                 | Clear liquid |
| Color, Gardner             | max. 2       |
| Density, g/cm <sup>3</sup> | 1.28         |
| Viscosity, 60°C, mPa.s     | ~2000        |

## PRECAUTIONS

Before using EBECRYL® 417, 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® 417.