





HIGH MOLECULAR WEIGHT ACRYLATE

#### **INTRODUCTION**

EBECRYL® 1859 is a high molecular weight acrylate especially developed for high speed UV, HUV, UV LED, and EB cured offset lithographic inks. EBECRYL® 1859 exhibits excellent lithographic behavior, very good pigment wetting and high reactivity.

## **PERFORMANCE HIGHLIGHTS**

EBECRYL® 1859 is characterized by:

- · Medium viscosity (easy handling)
- Low odor
- Excellent pigment wetting (also for carbon black)
- High reactivity
- Excellent ink water balance
- Good compatibility with other acrylates

UV/EB offset lithographic inks based on EBECRYL® 1859 are characterized by the following performance properties:

- · Good flow
- High gloss
- · Stable ink water emulsion ensuring constant ink transfer
- · Reduced misting
- · Reduced dot gain
- · High cure speed

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® 1859 is recommended for commercial applications using high speed sheetfed offset on paper and board substrates. It can also be used in other wet or dry offset inks, and in other applications such as UV/EB flexographic and screen inks.

#### **SPECIFICATIONS**

Acid value, mg KOH/g	max. 6
Appearance	Hazy liquid
Residual acrylic acid, ppm	max. 500
Residual solvent (toluene), ppm	max. 10
Viscosity at 60°C, mPa.s	850 - 1250

### **TYPICAL PROPERTIES**

Density, g/cm³ at 25°C	1.1
Functionality, theoretical	6
Viscosity at 25°C, 20 s <sup>-1</sup> , mPa.s	~36000

#### **PRECAUTIONS**

Before using EBECRYL® 1859, 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.

Product can develop a very thin white film in container when cold, recommended is to heat the product slightly prior to using in order for the thin white layer to disappear.

See the SDS for the recommended storage temperature range for EBECRYL® 1859.

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