EBECRYL® MAES

Technical Datasheet

INTRODUCTION

Ebecryl®MAES is a versatile monofunctional acrylate monomer that polymerizes under free radical initiation. This acid-functional diluent is compatible with various acrylated resins used in radiation curing applications, and offers superior purity, odor, and lower volatility when compared to β-CEA. It enhances adhesion on metallic, plastic, and paper substrates and is ideal for use in clear coats, inks, laminates, pressure-sensitive adhesives, and other UV-curable systems. Additionally, Ebecryl®MAES is suitable for developable etch and plate photoresist formulations.

PERFORMANCE HIGHLIGHTS

EBECRYL®MAES is characterized by:

- Low viscosity
- Low color

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

- Improved adhesion to substrates
- Lowered odor
- Developability in basic etchants

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

TYPICAL PROPERTIES

Appearance	Clear pale liquid
Color (Gardner)	<1
Viscosity, 25°C, mPa.s	150-230
Acid value, mg KOH/g	240-290
Density, g/ml	1.23

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.

PRECAUTIONS

The following is a summary of precautions to be taken when handling the 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, respiratory, and skin irritants 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 vapors. 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.