EBECRYL® 892

Technical Datasheet

TETRA-FUNCTIONAL POLYESTER ACRYLATE

INTRODUCTION

EBECRYL® 892 is a light colour, low viscosity tetra-functional acrylated oligomer. EBECRYL® 892 gives a fast cure response when formulated with other oligomers and cured via ultraviolet light (UV) or electron beam (EB). EBECRYL® 892 also improves the hardness and solvent resistance of cured inks and coatings.
EBECRYL® 892 is particularly useful for lithographic offset inks, flexo inks and overprint varnishes.

PERFORMANCE HIGHLIGHTS

EBECRYL® 892 is characterized by:

- Light colour
- Low viscosity
- Good cure response

UV/EB cured products based on EBECRYL® 892 are characterized by the following performance properties:

- High surface hardness
- Good solvent resistance

The properties of UV/EB cured products also depend on other selected formulation components, such as reactive diluent(s), additives and photo initiators.

SUGGESTED APPLICATIONS

UV/EB curable formulations containing EBECRYL® 892 may be applied by lithographic, screen,gravure, flexo, direct or reverse roll, and curtain coating methods.
EBECRYL® 892 is recommended for use in:

- Offset and flexo inks as a reactive oligomer
- Overprint varnishes
- Coatings on paper, plastics, cardboard
- Paper upgrading

TYPICAL VALUES

Cone and plate viscosity at 25°C, mPa.s	± 140
Colour, Gardner	max. 2

PHYSICAL PROPERTIES

Density, g/cm³	1.15
Functionality, theoretical	4

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 may 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. 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.

PRECAUTION

The following is a summary of the precautions to be taken when handling this 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 and skin irritant 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 vapours.
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.

STATUTORY LABELING

For Statutory Labeling information, please refer to Safety Data Sheet.