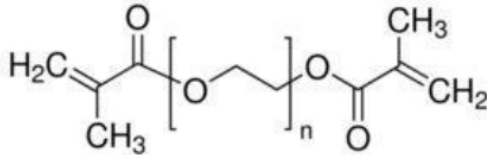


POLYETHYLENE GLYCOL 200 DIMETHACRYLATE

INTRODUCTION

EBECRYL® PEG200DMA (polyethylene glycol di-methacrylate), CAS N° 25852-47-5, is a difunctional monomer which polymerizes when exposed to sources of free radicals. EBECRYL® PEG200DMA forms homopolymers and copolymers. EBECRYL® PEG200DMA is compatible with a wide range of acrylated- and methacrylated resins.



With n = 4

PERFORMANCE DATA

EBECRYL® PEG200DMA is characterized by its:

- Non-toxic, non-sensitizing, non-irritant
- Low viscosity
- High purity dimethacrylate resin

EBECRYL® PEG200DMA is used in following applications:

- Co-monomer to improve mechanical performance and chemical resistance of acrylic polymers, unsaturated polyesters, polyolefins
- UV and thermally cured applications like anaerobic adhesives, sealants, flexographic printing plates, chemical anchoring

TYPICAL VALUES

Appearance	Clear liquid
Purity (GC), %	98
Dynamic viscosity at 25°C, mPa.s	max. 15
Color, Apha	max. 100
Acid value, mg KOH/g	max. 1
Water content, %	max. 0.1
Stabilizer (MeHQ), ppm	100 - 300

PHYSICAL PROPERTIES

Density, g/cm ³	1.08
Functionality, theoretical	2
Molecular weight, Dalton	336
Refraction index, 20°C	1.463

SUGGESTED APPLICATIONS

EBECRYL® PEG200DMA can be used as a co-agent to optimize curing, processability and mechanical properties of vulcanized rubbers. EBECRYL® PEG200DMA is furthermore used in composites as a styrene alternative and as a crosslinker to improve mechanical properties. Other applications include anaerobic adhesives, formulations for coatings, PVC co-agents and chemical fixing and anchoring.

STORAGE AND HANDLING

Care should be taken not to expose radical 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.

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 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.

STATUTORY LABELING

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