

## Technical Data Sheet

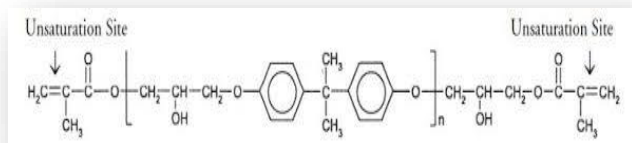
### PRODUCT NAME: SUNPOLYMER EPA-9004

#### Product Descriptions:

SUNPOLYMER EPA-9004 is a monomer free and highly efficient liquid epoxy acrylate oligomer which is used in radiation curable products.

#### Chemical Structure:

Epoxy acrylate oligomers are a class of compounds that are formed by the combination of epoxy and acrylate groups. Bisphenol A glycidyl ether (commonly abbreviated BADGE or DGEBA) is an organic compound used as constituent of epoxy



resins oligomers by reaction with acrylic acid. The structure can be represented by the following structural formula as above:

#### Key Properties:

- ❖ High cross linking density: Epoxy acrylate oligomers have a high cross-linking density, which gives them excellent mechanical properties such as high strength and toughness.
- ❖ Chemical resistance: These oligomers have excellent chemical resistance to a wide range of chemicals including acids, bases, and solvents.
- ❖ Thermal resistance: Epoxy acrylate oligomers have good thermal stability and can withstand high temperatures without degradation.

#### Area of Application:

- ❖ Printing inks
- ❖ General industrial coatings
- ❖ Protective coatings
- ❖ Automotive specialty coatings

#### Packing Size:

- ❖ 25 Kg Carboy

#### Safety & Handling:

For safe handling must be follow instruction as under:

- ❖ It should be stored in cool and dry place sealed original pack.
- ❖ Avoid additives, contact with human body, wear gloves & mask during the handling the polymer lumps.
- ❖ In case of body contact carefully wash with acetone and alcohol, after that thoroughly clean with soap and water.
- ❖ In case of eye contact, wash with running water for about 15-20 minutes and treat under the supervision of medical officer only.

#### Storage Conditions:

- ❖ It should be stored in dry place temperature in between 4-40 centigrade in original container kept tightly closed.

**Disclaimer:** All suggestions for use of our recommended products cited here are based on the results of tests carried out in our R&D lab and correct to the best of our knowledge and belief. However, no legal liability can be accepted with respect of such information as we cannot control the application procedures adopted by our users. We suggest having a pilot trial for the users prior to full commercialization of this product.