



PHOTOMER[®] 4172 Monomer, Reactive Diluent

Product Data Sheet

General Information

PHOTOMER[®] 4172 is a low odour aliphatic tetra functional acrylate of low viscosity and excellent crosslinking reactivity with very low levels of toluene.

Chemical Data

Chemical Name : alkoxyated pentaerythritol tetra acrylate
CAS No. : 51728-26-8
Molecular Weight: : 550 g/mol

Specification

Appearance	Visual	Clear liquid
Viscosity @ 25 °C	Brookfield, ISO 2555	130 - 190 mPa.s
Colour (APHA)	ISO 6271	≤ 100
Acid Value	ISO 660	≤ 1,0 mg KOH/g
Moisture content	Karl Fischer, ISO 4317	≤ 0.5 %
Inhibitor content	GC Analyses	200 - 600 ppm
Toluene content	GC Analyses	≤ 5 ppm
Specific Gravity @ 25°C		1.120 - 1,160 g/cm³

Additional Typical Properties

PHOTOMER[®] 4172 may be used in sensitive packaging applications due to the very low content of toluene and in comparison with other tetra functional monomers, PHOTOMER[®] 4172 exhibits of a lower shrinkage value.

Application

PHOTOMER[®] 4172 exhibits a very low viscosity, high crosslinking reactivity, excellent scratch and solvent resistance with good flexibility. Therefore, PHOTOMER[®] 4172 is an effective reactive diluent in UV formulations with a significant enhancement of the reactivity and overall cure speed of the system.

PHOTOMER[®] 4172 is recommended for printing inks, industrial coatings, adhesives, sealants and electronic applications.

Formulated product properties will depend on the actual reactive monomers, oligomers and additives utilized.

Storage & Handling

Storage must be in a cool, shaded, well ventilated and dry area away from direct sources of heat and sunlight. Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 12 months.

PHOTOMER® 4172 should be handled in accordance with good industrial practice. Further information is provided in the material safety data sheet which is available on request.

Regulatory Status

TSCA (USA), EU (Europe), IECSC (China), DSL (Canada), AICS (Australia), ECL (Korea), ENCS (Japan), NZIoC (New Zealand) and Taiwan.

Packaging

PHOTOMER® 4172 is available in 200 kg drums or 1000 kg IBCs

Disclaimer

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