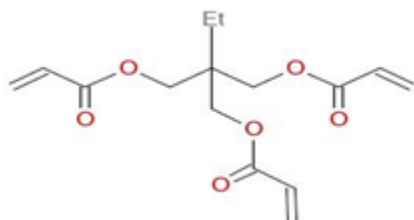


Product Data Sheet

General Information

PHOTOMER® 4006 is an aliphatic trifunctional acrylate of low viscosity and excellent crosslinking reactivity. In comparison to other trifunctional acrylates, it is an effective reactive diluent with excellent solvency and viscosity reducing characteristics in UV/EB curable formulations based on epoxy, polyurethane, and polyester oligomers.

Chemical Data



Chemical Name	: Trimethylolpropane triacrylate
Molecular weight	: 296 g/mol
CAS No.	: 15625-89-5
EINECS No.	: 239-701-3

Specification

Appearance	Visual	Clear pale yellow liquid
Viscosity @ 25 °C	Brookfield, ISO 2555	70 -130 mPa.s
Colour (APHA)	ISO 6271	≤ 50
Acid Value	ISO 660	≤ 0.2 mg KOH/g
Moisture content	Karl Fischer, ISO 4317	≤ 0.1 %
Inhibitor content	Spectrophotometer	100 - 400 ppm
Solvent Content	GC Analysis	≤ 2000 ppm
Specific Gravity @ 25°C		1.090 - 1.120 g/cm³
Refractive index	ISO 489	1.4720 - 1.4760

Application

The exceptional film forming properties of PHOTOMER® 4006 makes it suitable for use in UV/EB curable coatings and varnishes for industrial uses, graphic arts as well as screen printing, litho and other inks.

PHOTOMER® 4006 forms homopolymers of high tensile and moderate elongation. It imparts excellent chemical and hardness resistance, however at high concentrations it may impart a brittle character to coatings due to its inherently high crosslink density. Formulated product properties will depend on the actual reactive monomers, oligomers and additives utilized.

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Features & Benefits

PHOTOMER® 4006 enhances the performance of UV/EB curable coatings on sensitive substrates such as vinyl and LDPE, as well as rigid unyielding surfaces like wood. PHOTOMER® 4006 contributes to the demanding performance requirements of coatings both before and after curing.

Storage & Handling

Storage must be in a cool, shaded, well ventilated and dry area away from direct sources of heat and sunlight. PHOTOMER® 4006 may congeal or stratify if cold. Allow to warm to room temperature and mix well before using.

Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 12 months.

PHOTOMER® 4006 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), DSL (Canada), PICCS (Philippines), AICS (Australia), ECL (Korea), ENCS/MITI (Japan), IECSC (China), EU (Europe)

Packaging

PHOTOMER® 4006 is available in 200 kg lined tight head steel drums and IBC.

Disclaimer

The information presented in this data sheet is given in good faith and is based on the material available to us at the time of writing. The information is not to be taken as a warranty or representation for which we assume legal responsibility, nor as permission or recommendation to practice any patented invention without a license. It is offered solely for consideration, investigation and verification.