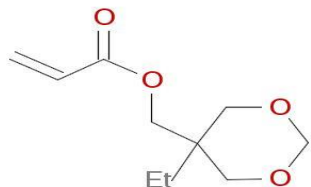


### Product Data Sheet

#### General Information

PHOTOMER® 4141 is a low viscosity mono-functional acrylated monomer which can be polymerised in the presence of free radicals. This Cyclic Trimethylolpropane Formal Acrylate (CTFA) is typically used in UV- and EB curable applications. PHOTOMER® 4141 offers good solvency and very good adhesion properties on metals and plastics.

#### Chemical Data



|                         |  |
|-------------------------|--|
| <b>Chemical Name</b>    | : (5-ethyl-1,3-dioxan-5-yl)methyl acrylate |
| <b>Molecular weight</b> | : 200 g/mol                                |
| <b>CAS No.</b>          | : 66492-51-1                               |
| <b>EC No.</b>           | : 266-380-7                                |

#### Typical Physical Properties

|                                |                               |                                       |
|--------------------------------|-------------------------------|---------------------------------------|
| <b>Appearance</b>              | <b>Visual</b>                 | <b>Clean and clear liquid</b>         |
| <b>Viscosity @ 25 °C</b>       | <b>Brookfield, ISO 2555</b>   | <b>10 – 20 mPa.s</b>                  |
| <b>Colour (APHA)</b>           | <b>ISO 6271</b>               | <b>≤ 100 APHA</b>                     |
| <b>Acid Value</b>              | <b>ISO 660</b>                | <b>≤ 0.5 mg KOH/g</b>                 |
| <b>Moisture content</b>        | <b>Karl Fischer, ISO 4317</b> | <b>≤ 0.2 % water</b>                  |
| <b>Inhibitor content</b>       | <b>Spectrophotometer</b>      | <b>≤ 300 ppm MEHQ</b>                 |
| <b>Specific Gravity @ 25°C</b> |                               | <b>1.080 - 1.110 g/cm<sup>3</sup></b> |
| <b>Refractive Index</b>        | <b>ISO 489</b>                | <b>1.4600 - 1.4700</b>                |

#### Application

PHOTOMER® 4141 may be used, after adequate testing, in UV curable coating and ink formulations based on acrylates, for substrates such as paper, wood, metal and plastics. Photopolymers and photoresists may also provide opportunities for use.

## Features & Benefits

PHOTOMER® 4141 exhibits excellent adhesion, good flexibility, non yellowing and low shrinkage.

## Storage & Handling

Do not expose to direct sunlight. Store product in a dry, well ventilated area at room temperature between 5°C and 25°C. Store in the original packaging. If kept unopened in the original sealed packaging and stored correctly the product will have a shelf life of at least 12 months.

PHOTOMER® 4141 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), PICCS (Philippines), AICS (Australia), NZIoC (New Zealand), ECL (Korea), UNSQ (Mexico), Taiwan

## Packaging

PHOTOMER® 4141 is available in 200Kg drum

### 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.