

## Technical Information

## NANOCRYL® A 215

NANOCRYL® A 215 is a versatile dispersion of colloidal silica in a difunctional acrylate monomer for the use in adhesive applications. The silica phase consists of surface-modified, synthetic SiO<sub>2</sub>-spheres of very small size (Ø 20 nm) and narrow particle size distribution.

Despite the high SiO<sub>2</sub>-content of 50 wt%, NANOCRYL® A 215 is highly transparent, low viscous and shows no sedimentation due to the agglomerate-free dispersion of the nanoparticles in the acrylate.

## Technical data (no specification)

| Property                  | Units    | Typical Values                 |
|---------------------------|----------|--------------------------------|
| Base acrylate             |          | tripropylene glycol diacrylate |
| Appearance                |          | clear, slightly yellow liquid  |
| SiO <sub>2</sub> -content | [wt%]    | ~ 50                           |
| Density @ 20 °C           | [g/ml]   | ~ 1.3                          |
| Viscosity @ 25 °C         | [mPas]   | ~ 200                          |
| Shelf life                | [months] | 6*                             |

\*if stored in the original unopened container

## Processing Instructions

NANOCRYL® A 215 can be used as any common UV-curable acrylate. However, the compatibility between NANOCRYL® A 215 and all other components should be tested separately before starting formulation development.

The colloidal silica in NANOCRYL® products tends to agglomerate if the stabilisation is affected by inappropriate formulation components like hydrocarbon solvents (e. g. xylene) or certain performance additives (e. g. several silicones or amines).

## Registration status

The ingredients of NANOCRYL® A 215 are listed in the following chemical inventories:

EINECS/ELINCS, TSCA, NDSL, ENCS, TCCL, PICCS, IECSC, TCSI

Further information is available on request.

## Handling and Storage

NANOCRYL® A 215 should be handled in accordance with good industrial practice. Detailed information is provided in the Material Safety Data Sheet.

NANOCRYL® A 215 is hygroscopic. Therefore keep container tightly closed when not in use! The product may polymerise under improper storage conditions. Store below 30 °C.

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**Evonik Nutrition & Care GmbH**  
Charlottenburger Straße 9  
21502 Geesthacht, Germany  
Phone +49 4152 8092-0  
Fax. +49 4152 79156  
[nano-and-silicone-technology@evonik.com](mailto:nano-and-silicone-technology@evonik.com)  
[www.evonik.com/nano-and-silicone-technology](http://www.evonik.com/nano-and-silicone-technology)

