

# Joncryl<sup>®</sup> ECO 2177

**Product Description** Joncryl ECO 2177 is a hard, film forming, glycol ether-free<sup>(1)</sup>, Rheology Controlled (RC) acrylic emulsion for printing ink and overprint varnish applications.

**Key Features & Benefits**

- Ultra low VOC<sup>(2)</sup>
- HAP solvent free
- Low odor

**Chemical Composition** RC acrylic emulsion

<sup>(1)</sup> The glycol ether level in this product averages less than 0.002 weight percent.  
The Volatile Organic Compounds (VOC) for this product are below the gas chromatography detection of 0.005 weight percent.

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## Properties

| Typical Properties                        |  |                        |
|---|--|------------------------|
| Appearance                                |  | translucent emulsion   |
| Non-volatile at 145°C (2g, 60 min)        |  | ~ 46.0%                |
| pH at 25°C                                |  | ~ 8.2                  |
| Viscosity at 25°C (#2 LV, 30 rpm, 30 sec) |  | ~ 500 cps              |
| Molecular weight (Mw)                     |  | > 200,000              |
| Acid number (NV)                          |  | 55                     |
| Density at 25°C                           |  | 1.05 g/cm <sup>3</sup> |
| MFFT                                      |  | 11°C                   |
| T <sub>g</sub>                            |  | 21°C                   |
| Freeze-thaw stable                        |  | Yes                    |
| Total VOC                                 |  | < 0.1% wt              |

These typical values should not be interpreted as specifications.

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## Application

Joncryl ECO 2177 is a hard, film forming, RC acrylic emulsion that is glycol ether free and is ultra-low VOC. It provides rub and block resistant and adhesion to ink and overprint varnish formulations.

Joncryl ECO 2177 is recommended for applications such as:

- Printing inks for flexographic or gravure applications
- Overprint varnishes for packaging, commercial, or publication applications

Joncryl ECO polymers allow the formulator to develop ultra-low VOC, glycol ether-free products to meet stringent industry standards. These polymers provide an 80% reduction in VOC compared to conventional water-based polymers. They are ideal for demanding packaging applications like confectionary or food packaging markets that cannot tolerate solvent odor contamination. Additionally, the excellent compatibility and printability of Joncryl ECO polymers make them an ideal system for next generation printing inks and overprint varnishes.

## Safety

### General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

### Safety Data Sheet

All safety information is provided in the Safety Data Sheet for Joncryl ECO 2177.

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## Storage

Please refer to the "Handling and Storage of polymer dispersions" brochure.

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## Important

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