

## Product Information

## TEGO® Cycle WA 120

## PRODUCT DESCRIPTION

TEGO® CYCLE WA 120 is a highly effective wetting agent with super spreading properties based on a polyether siloxane. It is a low foaming, non-ionic product with 100% active content. Used in sink-float process in plastic recycling lines it will improve the separation sharpness of different polymeric fractions.

## Typical Properties

Property	Unit	Value
<b>Appearance</b>		Liquid, colourless to pale straw
<b>Cloud Point</b>	°C	20-30
<b>Flash Point, min.</b>	°C	101
<b>Surface Tension</b>	mN/m	22
0.1 % in water		
<b>Viscosity</b>	mPa·s	40-90

The data represents typical values (no product specification)

## Solubility (25 °C)

Water		Soluble
Alcohol		Soluble
Aromatics		Soluble
Aliphatic h. c.		Insoluble
Chlorinated h. c.		Soluble
Paraffin oil		Insoluble

## TYPICAL APPLICATIONS

TEGO® Cycle WA 120 is a low foaming surfactant and wetting agent for sink-float operations in plastic recycling lines.

Apart from its extraordinary reduction of surface tension in aqueous solutions, the main property of TEGO® CYCLE WA 120 is super spreading. This is the fast coverage of

large hydrophobic surfaces resulting a fast release of small air bubbles on the plastic flakes.

TEGO® CYCLE WA 120 is advisable in a multitude of industrial applications where negative interaction between substrates and coatings has to be overcome.

TEGO® CYCLE WA 120 shows excellent surface wetting in adhesive applications, where the coating of difficult substrates is required. Therefore, it is recommended for the production of transfer labels and tapes or for laminating processes.

Furthermore, it is suitable for sealant applications.

## BENEFITS &amp; ADVANTAGES

- TEGO® CYCLE WA 120 is a solvent free easy to handle liquid
- Due to its non-ionic nature it is compatible with cationic, anionic, non-ionic and amphoteric surfactants
- The use of small amounts of TEGO® CYCLE WA 120 reduces the surface tension of water-based systems. It therefore enhances the spreading on non-polar surfaces e. g. polypropylene
- Due to the special selection of active ingredients TEGO® CYCLE WA 120 might outperform, depending on the formulation and application, conventional wetting agents such as sulfosuccinates in foam (inhibiting) behaviour
- TEGO® CYCLE WA 120 improves spreading and wetting properties (e. g. in metal working fluids)

## PACKAGING

25 kg plastic cans

200 kg steel drums

1 000 kg Containers

## SHELF LIFE

12 months in original sealed containers at room temperature.

## HAZARDOUS SUBSTANCE

Information concerning

- Classification and labelling according to regulations for transport and for dangerous substances
- Protective measures for storage and handling
- Measures in case of accidents and fire
- Toxicity and ecological effects

is given in our material safety data sheets.

## REGISTRATION LISTING SUMMARY

The relevant components of TEGO® CYCLE WA 120 are listed/registered or exempt in the following chemical inventories:

Registration Listings	
Registry	Status
<b>Australia (AICIS)</b>	Yes
<b>Canada (DSL)</b>	Yes
<b>China (IECSC)</b>	Yes
<b>European Union (EINECS/ELINCS)</b>	Yes
<b>Japan (ENCS)</b>	Yes
<b>New Zealand (NZIoC)</b>	Yes
<b>Philippines (PICCS)</b>	Yes
<b>United States of America (TSCA)</b>	Yes

## FOOD CONTACT COMPLIANCE

FDA

TEGO® CYCLE WA 120 complies with 21 CFR 175.105 (adhesives).

ISEGA-Certificate

Detailed information is available on request.

### Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third-party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

### Evonik Operations GmbH

Interface & Performance  
Goldschmidtstraße 100  
45127 Essen, Germany  
Phone Europe +49 201 173-2665  
Phone Asia +86 21 61191 125  
Phone Americas +1 804 727 0700  
[interface-performance@evonik.com](mailto:interface-performance@evonik.com)  
[evonik.click/interface-performance](http://evonik.click/interface-performance)