

## WorléeMicromer Eco

# When the more natural way of film-forming sets new trends in cosmetics

Cosmetics contributes to make us feel even more comfortable in our bodies. When it comes to products such as mascara, foundations or face creams, we now set value at least as much importance on more naturality as on performance.

Our continuous further development of our eco-friendly film former range meets this trend. They are made of up to 100% renewable raw materials, are based on state-of-the-art technology and come without any critical ingredients. Read more about our different innovative film formers on the following pages.



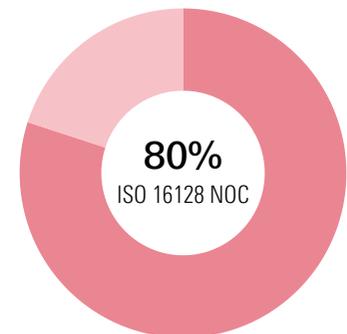
## WorléeMicromer Eco 100/10-L1

WorléeMicromer Eco 100/10-L1 is our novel liquid acrylic film former consisting of natural, renewable raw materials with excellent durability and application properties. Its composition is based on state-of-the-art technology and comes without critical ingredients and therefore meets numerous Clean Beauty guidelines.

WorléeMicromer Eco 100/10-L1 does not contain a preservative due to the low pH value, as there is a low risk of microbial contamination during production and/or intended use according to ISO DIN EN ISO 29621:2011.

### Your benefits at a glance:

- ✓ Suitable for solutions not containing EO and sulfate surfactants
- ✓ Increase of the natural origin content of your formulations
- ✓ Not in scope of Commission regulation (EU) 2023/2055 for microplastics
- ✓ Fast drying and flexible long-lasting film former
- ✓ Water resistance and rub-off resistant
- ✓ Non-Tacky and smooth feel
- ✓ Good film integrity
- ✓ Easy to incorporate as low viscous liquid
- ✓ Cold and hot processable
- ✓ Vegan, GMO-free, Cruelty free, no preservatives



Skin Care



Color  
Cosmetics

INCI	Acrylic Acid/Isobutyl Acrylate/Isobornyl Acrylate Copolymer
Total solids [%]	49 - 51
Tg [°C]	14
pH Value	1.7 - 2.5
China compliant	✓
ISO 16128 NOC [%]	80.0



## WorléeMicromer Eco Resist

Our water-soluble acrylic film former WorléeMicromer Eco Resist is made from natural, renewable raw materials. The product sets new standards with outstanding rub and water resistance. The composition is based on state-of-the-art technology and does not contain any critical ingredients and therefore meets numerous Clean Beauty specifications.

### Your benefits at a glance:

- ✓ Increase of the natural origin content of your formulations
- ✓ Suitable for solutions not containing EO and sulfate surfactants
- ✓ Not in scope of Commission regulation (EU) 2023/2055 for microplastics
- ✓ Fast drying and ultra long-lasting film former
- ✓ Extremely rub-off and water-resistant
- ✓ Non-Tacky and smooth feel
- ✓ Good film integrity
- ✓ Easy to incorporate as low viscous liquid
- ✓ Cold and hot processable
- ✓ For formulations with a pH value of >6.5
- ✓ Vegan, Cruelty free, GMO free



Skin Care

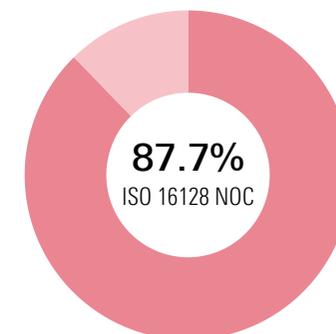


Hair Care



Color  
Cosmetics

INCI	Acrylic Acid/Isobutyl Acrylate/Isobornyl Acrylate Copolymer
Total solids [%]	23 - 27
Tg [°C]	28
pH Value	6.5 - 7.1
China compliant	✓
ISO 16128 NOC [%]	87.7





## WorléeMicromer Eco 200/10

Looking for a natural choice for color cosmetics with the same performance properties? Well, then WorléeMicromer Eco 200/10 (natural film former and dispersing agent) is the solution you've been waiting for.

WorléeMicromer Eco 200/10 is a natural film former (NOI of 0.99) and dispersing agent based on rapeseed for color cosmetic e.g. foundations and lip applications. The gentle low-temperature production is perfectly suited as a sustainable manufacturing process. In order to comply with the clean label trend, GMO or animal ingredients were deliberately avoided in the production process.

### Your benefits at a glance:

-  99% based on rapeseed (NOI of 0.99)
-  Produced by an eco-efficient process (lower temperature and no organic entrainer required)
-  Excellent choice for pigment dispersions (Iron oxide) used in color cosmetics
-  Refines the droplet distribution and improves the stability of a formulation
-  Supports the desired viscosity
-  Creates a creamy, smooth lip feel
-  Improves adhesion and creates an even application
-  Vegan, GMO free, Cruelty free, Palm oil free



Skin Care



Color Cosmetics

INCI	Hydrogenated Dilinoleyl Hydrogenated Dimer Dilinoleate/Stearate
Total solids [%]	100
pH value	-
ISO 16128 NOI	0.99





## WorléeMicromer Eco 300/10-L1

WorléeMicromer Eco 300/10-L1 is a very fast drying, natural film former based on shellac. Its high water resistance and drying speed make it perfect for decorative cosmetic formulations such as mascara and eyeliner but also for hair care products. Long hold, intense colour and time saving in the morning routine are guaranteed. The content of natural raw materials according to ISO 16128 is 98.8%.

### Your benefits at a glance:

- ✓ Natural film former (NOC: 98.8 %)
- ✓ No microplastics according to current ECHA proposal
- ✓ Physically drying film former
- ✓ Improves water resistance
- ✓ Intensifies colour
- ✓ Increases drying speed
- ✓ Saves process time and equipment
- ✓ GMO free, Cruelty free

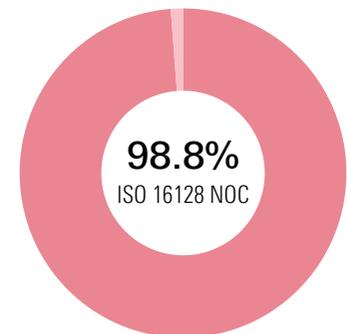


Color  
Cosmetics



Hair Care

INCI	Potassium Shellac
Total solids [%]	29 - 31
pH value	6.8 - 7.8
ISO 16128 NOC [%]	98.8



# Let's work together!

You are interested and need further information?  
Feel free to contact us.

Worlée-Chemie GmbH  
Grusonstrasse 26  
22113 Hamburg, Germany  
Tel. +49 (0)40 73333 0  
cosmetics@worlee.de

[www.worlee.de](http://www.worlee.de)

