



MicNo[®]

New Generation Particle Technology

Additives for
sunscreen, baby care, coloured cosmetics & makeup formulations

Innovative, Safe & Natural



SUN
CARE



COLOURED
COSMETICS



SENSITIVE SKIN &
BABY CARE



DAILY
CARE



PRODUCT PORTFOLIO

Respectful to the World



Entekno was founded in 2008 at the Eskisehir Technology Development Region. The mission of Entekno is to develop & produce advanced materials &/or technologies & to realise the usage of them into real applications. The main technological & scientific fields where Entekno carry out research are:

- Production of inorganic particulate materials for cosmetics & electronics
- Modification of powder surfaces
- Production of specific & advanced materials
- Production & development of advanced composite materials
- Improvement of physical, chemical, structural, mechanical & thermochemical properties of materials

MicNo[®] ZnO technology from Entekno Materials is a novel mineral-based UV filter created by patented MicNo[®] particle technology. It combines the benefits & overcomes the disadvantages of both micron & nano ZnO particles. MicNo[®] ZnO is a tailored, platelet shaped, micron sized particle composed of nano primary particles. MicNo[®] behaves like micron ZnO over the skin, since it does not penetrate through the skin, but still offers the transparent protection of nano ZnO.

Novel MicNo[®] ZnO particle technology has unique properties & performance advantages over conventional micron and nano ZnO forms. Unique hexagonal morphology enables one to cover surfaces much more effectively with respect to conventional forms of ZnO. Therefore, less MicNo is used to achieve the same UV protection. In addition many years of scientific research showed that MicNo is much more biocompatible and environmentally benign than nano ZnO forms. To achieve broad spectrum protection against the harmful UV-rays, MicNo[®] ZnO particle technology is the best choice for cosmetic applications. MicNo offers,

- Reduction in total additive content to achieve improved performance
- Transparent & smooth products without residue & whitening
- No or less amount of dispersing agent in formulations (cost reduction)
- High surface coverage per mass
- Superior boosting effect with other UV-Filters
- Opportunity for preservative free & natural formulations
- Performance differentiator from other competitor products

More details...

www.enteknomaterials.com



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PRODUCT NAME MicNo[®] Powder

INCI NAME Zinc Oxide

CAS NO 1314-13-2



DESCRIPTION

Novel MicNo[®] Powder particle technology has unique properties & performance advantages over conventional micron and nano ZnO forms. It combines the benefits & overcomes the disadvantages of both micron & nano ZnO particles. Scientific studies showed that MicNo is a bicompatible and environmentally benign ingredient. To achieve broad spectrum protection against the harmful UV-rays, MicNo[®] Powder particle technology is the best choice for cosmetic applications.

MicNo[®] Powder offers:

- Higher SPF & sun protection with less ZnO content
- No whitening even at 25% MicNo[®] ZnO

- Formulation with no or reduced preservatives
- Broad spectrum UV protection

PROPERTIES

Physical Properties of MicNo[®] Powder

Property	Result
Physical State	Solid Powder
Colour	White
Odour	Odourless
Particle Shape	Platelet

Chemical Composition of MicNo[®] Powder

Ingredients	Amount (%)
Zinc Oxide	> 99.9%

APPLICATIONS

MicNo[®] Powder particle technology can be used to provide superior properties in many different cosmetic applications. Some of these application areas include:

- Sun care
- Sensitive skin care
- Baby care
- Coloured cosmetics
- Daily care

HANDLING PRECAUTIONS

Product safety information for safe use is not included. Before handling, read product & safety data sheets & container labels for physical & health hazard information & safe usage. The material safety data sheet is provided along with the product.

SHELF LIFE & STORAGE

When stored at or below 35°C in the original well-closed & dry containers, this product has a shelf life of minimum 2 years after the date of production.

PRODUCT NAME MicNo® DCC-N**INCI NAME** Zinc Oxide, Caprylic/Capric Triglyceride, Polyhydroxystearic Acid**CAS NO** 1314-13-2, 73398-61-5, 58128-22-6COSMOS
APPROVED**DESCRIPTION**

MicNo® DCC-N is a dispersion that contains MicNo® ZnO in the presence of Caprylic/Capric Triglyceride & Polyhydroxystearic Acid. Due to the high dispersing performance of MicNo® DCC-N, this product is a good option for cosmetic manufacturers. It provides good stability in formulations, obtaining high Sun Protection Factor (SPF) values, it is easy to mix & enables the design of natural formulations.

PROPERTIES

Physical Properties of MicNo® DCC-N	
Property	Result
Physical State	Liquid
Colour	Beige
Odour	Faint Odour
Density	1.8 - 2.2 g/ml

Chemical Composition of MicNo® DCC-N	
Ingredients	Amount (%)
Zinc Oxide	62-67%
Caprylic / Capric Triglyceride	30-35%
Polyhydroxystearic acid	2-5%

APPLICATIONS

Since MicNo® DCC-N can provide High SPF values, is easy to mix, has a high & long-lasting stability & provides the opportunity to design natural formulations, it is mainly used in:

- Sun care
- Sensitive skin care
- Baby care
- Coloured cosmetics
- Daily care

HANDLING PRECAUTIONS

Product safety information for safe use is not included. Before handling, read product & safety data sheets & container labels for physical & health hazard information & safe usage. The material safety data sheet is provided along with the product.

SHELF LIFE & STORAGE

When stored between 10°C and 30°C in the original well-closed containers, this product has a shelf life of 2 years after the date of production. To be shaken or stirred before using this material.

PRODUCT NAME MicNo[®] CSA-N

INCI NAME Zinc Oxide, Stearic Acid

CAS NO 1314-13-2, 57-11-4



DESCRIPTION

MicNo[®] CSA-N is a novel particle technology that is stearic acid coated form of MicNo[®]-ZnO. Our natural novel surface modification provides superior properties including improved steric effect, high surface stability, advanced surface morphology, high water resistance performance in cosmetic applications etc.

PROPERTIES

Physical Properties of MicNo[®] CSA-N

Property	Result
Physical State	Solid Powder
Odour	Odourless
Particle Shape	Platelet

Chemical Composition of MicNo[®] CSA-N

Ingredients	Amount (%)
Zinc Oxide	≥ 96%
Stearic Acid	1-4%

APPLICATIONS

MicNo[®] CSA-N particle technology can be used to provide superior properties in many different cosmetic applications. Some of these application areas include:

- Sun care
- Sensitive skin care
- Baby care
- Coloured cosmetics
- Daily care

HANDLING PRECAUTIONS

Product safety information for safe use is not included. Before handling, read product & safety data sheets & container labels for physical & health hazard information & safe usage. The material safety data sheet is provided along with the product.

SHELF LIFE & STORAGE

When stored at or below 35°C in the original well-closed & dry containers, this product has a shelf life of minimum 2 years after the date of production.



PRODUCT NAME MicNo[®] DAB

INCI NAME Zinc Oxide & C 12-15 Alkyl Benzoate & Polyhydroxystearic Acid

CAS NO 1314-13-2 & 68411-27-8 & 58128-22-6

DESCRIPTION

MicNo[®] DAB is a dispersion that includes MicNo[®] ZnO with C12-15 Alkyl Benzoate & Polyhydroxystearic Acid. MicNo[®] DAB provides optimum production conditions for the cosmetic manufacturers who generally try to minimise difficulties during preparation of dispersion.

PROPERTIES

Physical Properties of MicNo[®] DAB

Property	Result
Physical State	Liquid
Colour	Beige
Odour	Faint Odour
Density	1.8 - 2.2 g/ml

Chemical Composition of MicNo[®] DAB

Ingredients	Amount (%)
Zinc Oxide	62-67%
C 12-15 Alkyl Benzoate	30-35%
Polyhydroxystearic acid	2-5%

APPLICATIONS

MicNo[®] DAB provides the advantages of both solid & liquid forms for cosmetic applications. It is the best choice for sun care products, especially for sunscreens, sun care milks, lotions & different types of creams. MicNo[®] DAB is mainly used in:

- Sun care
- Coloured cosmetics
- Daily care

HANDLING PRECAUTIONS

Product safety information for safe use is not included. Before handling, read product & safety data sheets & container labels for physical & health hazard information & safe usage. The material safety data sheet is provided along with the product.

SHELF LIFE & STORAGE

When stored between 10°C and 30°C in the original well-closed containers, this product has a shelf life of 2 years after the date of production. To be shaken or stirred before using this material.

PRODUCT NAME MicNo[®] CSI

INCI NAME Zinc Oxide, Triethoxycaprylylsilane

CAS NO 1314-13-2, 2943-75-1



DESCRIPTION

MicNo[®] CSI is an innovative product that was derived by coating the surface of MicNo[®] ZnO with triethoxycaprylylsilane. MicNo[®] CSI is a novel particle technology that is straric acid coated form of MicNo[®]-ZnO. Our natural novel surface modification provides superior properties including improved steric effect, high surface stability, advanced surface morphology, high water resistance performance in cosmetic applications etc.

PROPERTIES

Physical Properties of MicNo[®] CSI

Property	Result
Physical State	Solid Powder
Odour	Odourless
Particle Shape	Platelet

Chemical Composition of MicNo[®] CSI

Ingredients	Amount (%)
Zinc Oxide	≥ 96%
Triethoxycaprylylsilane	1-4%

APPLICATIONS

Triethoxycaprylylsilane coating on MicNo platelets provides improved dispersion of composite powder in oil-based and non-aqueous phases. MicNo-CSI offers enhanced skin feel, high chemical stability and improved photostability over uncoated zinc oxide in cosmetic formulations. MicNo-CSI can also be used in application fields other than cosmetics as a filler in composite systems.

- Sun care
- Coloured cosmetics
- Daily care

HANDLING PRECAUTIONS

Product safety information for safe use is not included. Before handling, read product & safety data sheets & container labels for physical & health hazard information & safe usage. The material safety data sheet is provided along with the product.

SHELF LIFE & STORAGE

When stored at or below 35°C in the original well-closed containers, this product has a shelf life of minimum 2 years after the date of production.



PRODUCT NAME MicNo® CSI-DAB

INCI NAME Zinc Oxide, Triethoxycaprylylsilane, C 12-15 Alkyl Benzoate & Polyhydroxystearic Acid

CAS NO 1314-13-2, 2943-75-1, 68411-27-8 & 58128-22-6

DESCRIPTION

MicNo® CSI-DAB is an innovative product that was produced from Triethoxycaprylylsilane coated MicNo® ZnO with C 12-15 Alkyl Benzoate & Polyhydroxystearic Acid in liquid form.

PROPERTIES

Physical Properties of MicNo® CSI-DAB

Property	Result
Physical State	Liquid
Colour	Beige
Odour	Faint Odour
Density	1.8 – 2.1 g/ml

Chemical Composition of MicNo® CSI-DAB

Ingredients	Amount (%)
Zinc Oxide	62-65%
Triethoxycaprylylsilane	0.6 – 3%
C 12-15 Alkyl Benzoate	30-35%
Polyhydroxystearic acid	2-5%

APPLICATIONS

MicNo® CSI-DAB offers high SPF & is easy to disperse, making it a good option for cosmetic manufacturers. Uses can include:

- Sun care
- Coloured cosmetics
- Daily care

HANDLING PRECAUTIONS

Product safety information for safe use is not included. Before handling, read product & safety data sheets & container labels for physical & health hazard information & safe usage. The material safety data sheet is provided along with the product.

SHELF LIFE & STORAGE

When stored between 10°C and 30°C in the original well-closed containers, this product has a shelf life of 2 years after the date of production. Shake well before use.

Come & Visit Our Team

in-cosmetics[®]
global

Barcelona • 31 March - 2 April 2020

eco friendly

Natural Biocompatible Environmentally Friendly



MicNo[®] offers...

Reduction in total additive content to achieve improved performance

Transparent & smooth products without residue & whitening

Low switching cost

Performance differentiator from competitor products

...to sunscreen & cosmetics manufacturers.



The only sunscreen ingredient that covers both UVA & UVB



More details...

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