



Mearlmica®

Specialty Performance Minerals for Color Cosmetics
and Personal Care Products

Technical Information

November 2016

Mearlmica® minerals

Mearlmica specialty mineral products help provide balance and consistency to cosmetic formulations, while remaining optically neutral. Mearlmica Treated SVA contains Lauroyl Lysine to enhance the tactile properties, long-wear properties, and hydrophobicity of certain types of cosmetic formulations.

Mearlmica Minerals – Typical Properties

PRODUCT GRADE*	COMPOSITION	AVG. PARTICLE SIZE (µm) RANGE**	DENSITY (Kg/L)	APPROX. BULK DENSITY***	
				Lb/ft ³	g/100cm ³
Mearlmica CF	Mica	95% between 4 - 48µ	2.8	8	12
Mearlmica DD	Mica	95% between 2 - 48µ	2.8	8	12
Mearlmica II	Mica	95% between 4 - 48µ	2.8	8	12
Mearlmica SV	Mica	95% between 2 - 32µ	2.8	7	11
Mearlmica UF	Mica	95% between 2 - 32µ	2.8	8	12
Mearlmica Treated SVA	Mica, Lauroyl Lysine	95% between 2 - 24µ	2.7	10	16

* Please refer to individual product specification sheets for certifiable product specifications

** The particle size results will vary depending on the light scattering instrument used. The values listed (as % by weight) are the results using a Malvern Mastersizer. 80% of particles are found between the ranges noted in the table.

*** Determined by ASTM Method D-716-86

Applications

Formulating Guidelines

Mearlmica products are chemically stable under conditions normally encountered in cosmetic and personal care formulation product and use. However, all grades should be tested in potential formulations before commercialization in order to determine if performance will be acceptable.

Since regulations change over time, we recommend that appropriate use of each colorant be confirmed against each region's current cosmetic regulations.

Physical and Chemical Properties

Solubility

Mica is inorganic and therefore insoluble in water.

pH

The pH of these products is measured by adding 4 grams of the pigment into 96 mL of water. This value can be found on the specification sheet.

Mearlmica Treated SVA is hydrophobic and cannot be measured for pH.

Specifications

For product specifications, refer to the respective specification sheet (separate document) for each Mearlmica product.

The color additive components in the products identified in this data sheet meet the applicable FDA (21 CFR Part 73), EU Cosmetic Regulation EC/1223/2009 (Annex IV, including EC-231-2012 requirements), Japan MHW, Korean Cosmetics Colorants Standard, and China's Cosmetic Safety and Technical Standard (2015 version) specifications and purity requirements.

Microbial status for Mearlmica products:

Total aerobic bacteria	<100 CFU/g max.
Yeast & mold	<100 CFU/g max.
Gram-negative bacteria	absent in 10g
E. coli	absent in 10g
Pseudomonas aeruginosa	absent in 10g
Staphylococcus aureus	absent in 10g

Storage

Mearlmica specialty performance minerals have a storage stability of at least 10 years from the date of manufacture, provided that they are stored in unopened original containers, protected from light, and under normal conditions of temperature and humidity.

Safety Data Sheet

A Safety Data Sheet for each Mearlmica product is available.

Further Product Ranges

Bi-Lite® Bismuth Oxychloride/Mica Pigments
Cellini® Colors
Chione™ Pigments
Chroma-Lite® Colors
Cloisonné® Colors
Duochrome® Iridescent Colors
Flamenco® Pearlescent and Iridescent Pigments
Gemtone® Colors
Mearlite® and Biju® Ultra Bismuth Oxychloride Pigments
Mearlmica® Specialty Performance Mica
MultiReflections™ Iridescent Pigments
Pearl-Glo® Bismuth Oxychloride Pigments
Reflecks™ Pearlescent and Iridescent Pigments and Colors
Reflecks™ Dimensions Pearlescent and Iridescent Pigments and Colors
Reflecks™ MultiDimensions Color Changing Pigments
Timica® Luster Pigments

Appendix – Mearlmica Product Compositions

Component	By Weight	CI No.	CAS No.	EINECS No.
Mearlmica CF - INCI Name: Mica				
Mica	100 %	77019	12001-26-2	310-127-6
Mearlmica DD - INCI Name: Mica				
Mica	100 %	77019	12001-26-2	310-127-6
Mearlmica II - INCI Name: Mica				
Mica	100 %	77019	12001-26-2	310-127-6
Mearlmica SV - INCI Name: Mica				
Mica	100 %	77019	12001-26-2	310-127-6
Mearlmica UF - INCI Name: Mica				
Mica	100 %	77019	12001-26-2	310-127-6
Mearlmica Treated SVA - INCI Name: Mica (and) Lauroyl Lysine				
Mica	95.5 - 97.5 %	77019	12001-26-2	310-127-6
Lauroyl Lysine	2.5 - 4.5 %	-	52315-75-0	257-834-4

Product Range

Product	PRD-No.
Mearlmica CF	30302439
Mearlmica DD	30302440
Mearlmica II	30302442
Mearlmica SV	30302443
Mearlmica Treated SVA	30302444
Mearlmica UF	30302445

Contacts

Asia Pacific

BASF Colors & Effects Shanghai Ltd.
No 300, Jiang Xin Sha Road
200137 Shanghai
China

North America

BASF Colors & Effects USA LLC
24710 West Eleven Mile Road
Southfield, MI 48034
USA

Europe

BASF Colors & Effects GmbH
An der Rheinschanze 1
67059 Ludwigshafen
Germany

South America

BASF S/A
Av. das Nações Unidas, 14171
Crystal Tower 11th floor,
Morumbi 04538-132, São Paulo
Brazil

Visit our website: www.colors-effects.bASF.com

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