



SynPlicity™ 1000 Cosmetic Ester

PRODUCT DESCRIPTION

Compelled by public regulation and private safety concerns, cosmetic companies that have historically used fast gelling, high solvating plasticizers are reformulating their products with bio-derived and non-phthalate chemistries. The tradeoff? The alternatives often are not as efficient and process more slowly.

SynPlicity™ 1000 cosmetic ester provides an excellent balance of performance and durability for nail polish formulations in a highly-efficient, non-phthalate and bio-based alternative to petroleum-derived plasticizers.

VALUE SOLUTION

Looking to optimize your formulations without sacrificing performance? SynPlicity™ 1000 cosmetic ester can help you achieve plasticizer usage levels and performance characteristics comparable to DBP, BBP and other high solvating plasticizers with a 94% bio-based, non-phthalate alternative. SynPlicity™ 1000 can also be used in combination with conventional plasticizers.

KEY CHARACTERISTICS

- High solvating
- Non-phthalate
- Bio-based (derived from soybean oil)
- Low viscosity
- Low odor
- Added flexibility and increased durability
- INCI listed as Methyl Epoxidized Soyate



TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	NOMINAL VALUE
Specific Gravity (25/25°C)	ASTM D-891	0.950-0.956
Acid Number (mg KOH/g)	AOCS Cd 3d-63	< 1.00
Appearance	ASTM D-2090	Clear
Color (Pt-Co Scale)	ASTM D-1209	< 100
Molecular Weight - Theoretical, approximate		316
Oxirane Content (wt%)	AOCS Cd 9-57	> 6.4
Water Content (wt%)	ASTM E-1064	< 0.15

To learn more about SynPlicity™ 1000 Cosmetic Ester, contact PolyOne at 1.866.POLYONE (1.866.765.9663)

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