



# Finsolv® TPP

INCI Name: C<sub>12-15</sub> Alkyl Benzoate (and) Dipropylene Glycol Dibenzoate (and) PPG-15 Stearyl Ether Benzoate CAS Nos.: 68477-27-8, 27138-31-4, 108347-90-6 EINECS Nos.: 270-112-4, 248-258-5, Polymer

# Finsolv® TPP

Finsolv® TPP is a proprietary blend of three unique benzoate esters, which exhibit performance synergy in numerous personal care product areas.

First, Finsolv® TPP is an exceptional solvent for sunscreen actives. Finsolv® TPP will solubilise 30% benzophenone-3 and avobenzone (Parsol 1789) compared to 16% for Finsolv® TN. This allows for higher active levels and improved product stability with less chance of recrystallisation.

Second, Finsolv® TPP exhibits exceptional tactile and performance improvements over the individual materials. The C<sub>12-15</sub> alkyl benzoate moiety exhibits a soft, smooth, nongreasy rub in while the dipropylene glycol dibenzoate adds an occlusive property and the PPG-15 stearyl ether benzoate helps in coupling the three esters. This unique blend of emolliency and occlusiveness combine to produce a moisturiser with superior tactile and performance properties.

Finally, Finsolv® TPP is soluble in a wider range of materials than its individual components. This in combination with its sunscreen solubility and moisturisation attributes makes Finsolv® TPP a truly unique and functional emollient.

## Applications

- Skin care
- Sun care
- Antiperspirant/deodorants

## Performance Benefits

The multifunctional properties of Finsolv® TPP will find applications in the following personal care areas:

- Skin care as a moisturiser, emollient and skin conditioning agent, which imparts a light, dry and non-oily, feel to the skin
- Sun care for improved solubilisation of active materials and enhanced tactile properties
- Antiperspirant/deodorants to reduce the white residue left on the skin from antiperspirant salts. In addition, the high refractive index of Finsolv® TPP makes it suitable for use in clear products

**Product Specification** (Not intended for use in preparing specifications)

Appearance	Clear, almost colourless to pale yellow liquid
Odour	Very mild
Pour point	-13°C (approx).
Flash point	>150°C
Specific gravity @ 25°C	0.945
Refractive index @ 20°C	1.490
Surface tension dynes/cm @ 15°C, (Du Nuoy)	34
Interfacial tension in water dynes/cm @ 15°C	9
Spreading coefficient dynes/cm @ 15°C	29
Viscosity, Brookfield RV #1 Spindle, 100 RPM, cps @ 21°C	55
Colour, APHA	20
Saponification value, (mg KOH/g)	195

**Solubility of Finsolv® TPP in:**

Acetone	Soluble
Beeswax*	Soluble
Castor oil	Soluble
Ethanol	Soluble
Isopropanol	Soluble
Isopropyl Myristate	Soluble
Isopropyl Palmitate	Soluble
Lanolin	Soluble
Paraffin wax*	Soluble
Volatile Silicones	Soluble
Vegetable oil	Soluble

\*Soluble Hot





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