MANTA

Technical Data Sheet

Version: 1.0

Manta F1043 Methyl Silicone Fluid

Description

Manta F1043 is a high-purity, ultra-low viscosity methyl-modified siloxane fluid. Characterized by its exceptional volatility and physiological inertness, it functions as a light carrier in personal care formulations.

Distinguished by its rapid flash-off rate, Manta F1043 evaporates quickly from the skin and hair, leaving behind an immediate sensation of freshness and an exceptionally dry, non-tacky finish. It acts as an ideal substitute for traditional volatile solvents where a more sophisticated, silky sensory profile is required. Its solvent compatibility makes it a versatile vehicle for delivering active ingredients across a wide range of cosmetic applications.

Typical Physical Properties

INCI/CTFA	Methyl Trimethicone
CAS NO.:	17928-28-8
Appearance	Colorless to slightly yellow transparent liquid
Refractive index (25°C)	1.3800-1.3900
Specific gravity (25°C)	0.800-0.900
Viscosity (cSt, 25°C)	1.25-1.75

Properties

1. Features an ultra-low molecular weight structure ensuring maximum spreadability and an ultra-light skin feel.
2. Physiologically inert.
3. Exhibits outstanding compatibility and miscibility with a diverse array of cosmetic solvents and organic esters.
4. Features an ultra-fast evaporation profile, providing an immediate vanishing effect and a dry, refreshing sensory finish.
5. Effectively reduces the greasiness of heavy organic oils and waxes in complex formulations.

Applications

Manta F1043 can be widely used in personal care formulations, including:

1. Skin Care: Ultra-light facial serums, rapid-dry body oils, and refreshing lotions.
2. Sun Care: Sunscreens and after-sun sprays (improves spreadability and reduces the drying time of high-SPF formulas).
3. Color Cosmetics: Quick-dry liquid foundations, makeup primers, and long-wear lipsticks.
4. Personal Care: Antiperspirants, deodorants, and light hair conditioning mists (imparts shine without residue).

How to Use

1. Processing: Can be used directly as a high-efficiency carrier, a primary diluent, or a sensory-improving additive.
2. Emulsification: Easily incorporated into both Oil-in-Water (O/W) and Water-in-Oil (W/O) emulsion systems using standard processing techniques (add directly to the oil phase).
3. Temperature Control: Due to its extremely high volatility, all processing should be conducted at room temperature or in a strictly closed vessel at lower temperatures to prevent solvent loss.
4. Recommended Dosage: 1.0% - 50.0% of the total formulation, depending on the specific application and desired speed of evaporation.

Packing

In pails, drums

Safety and Storage

Keep away from heat and open flame. Prevent from the exposure of moisture, acid, alkalis and other impurities. When stored in the original unopened containers, this product has a usable life of 24 months from the date of production.

Contact Information

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