# MIRASIL® C-DPDM

**Description**

CTFA/INCI Name: CYCLOPENTASILOXANE (and) DIPHENYL DIMETHICONE

CAS N° 541-02-6 / 67762-99-6

MIRASIL C-DPDM is a solution of a Polydimethyldiphenylsiloxane gum at 15% in Cyclopentasiloxane.

**Examples of applications**

Easy to handle blend of high molecular weight Diphenyl Dimethicone. The cyclopentasiloxane part will rapidly evaporate, while the Diphenyl Dimethicone part will remain on the skin or on hair providing an increased substantivity and conditioning effect.

**Advantages**

In skin care emulsions it will impart a unique silky feel.

MIRASIL C-DPDM also helps to improve the water-resistance properties and the long-lasting effect for sunscreens in sun care products.

MIRASIL C-DPDM confers antistatic and gloss effects to hair formulations and leaves the hair with a very soft feel.

Its compatibility with vegetable oils and its substantivity to skin are most useful for creams containing lipophilic plant extracts, natural oils and lipophilic agents.

Recommended use levels:

- Creams and emulsions O/W or W/O: approx. 10%
- Hair products: 2 – 10% for hair rinse – 60% minimum for a protecting effect (e.g. cuticle coat).

**Characteristics**

- **Appearance (Standard SH-2)**: Colourless to slight yellow clear liquid visibly free from suspended matter
- **Colour (Standard SH-42), Hazen**: < 30
- **Odour**: None to slight
- **Turbidity (NTU)**: < 7
- **Identity, I.R. Spectrum (Standard SH-73)**: Conform
- **Viscosity, at 25°C (Standard SH-14), mm²/s, approx.**: 2000
- **Solid content, 150°C - 1 g -2 h (Standard SH-6), %, approx.**: 15
- **Specific gravity at 25°C, kg/m³, approx.**: 960
- **Solubility in water (Standard SH-140), 0.1 g in 10 ml at 25°C**: non miscible
- **Refractive Index (Standard SH-9), 25°C**: 1.398 to 1.404
- **Heavy metals (Standard SH-70), ppm Pb**: < 5
- **Surface tension at 25°C, mN/m, approx.**: 14
MIRASIL® C-DPDM

Characteristics (cont’)

Miscible with:
Isopropyl Myristate.

Partially miscible with:
Paraffin oil, Mineral oil, Corn oil, Jojoba oil, Grape seed oil, Squalene, Cetyl alcohol.

Not miscible with:
Stearyl alcohol, Water, Sweet almond oil, Glycols, Ethanol.

Packaging

MIRASIL C-DPDM is available in:
4 drums 200 kg / Pal. 800 kg

SPECIAL PACKAGING (on request):
12 drums 25 kg / Pal. 300 kg

Storage and shelf life

When stored in its original unopened packaging, at a temperature below +40 °C, the MIRASIL C-DPDM may be stored for up to 36 months from the date of manufacture clearly marked on the packaging.

Beyond this date, Bluestar Silicones no longer guarantees that the product meets the sales specifications.

Safety

Please consult the Safety Data Sheet of MIRASIL C-DPDM.

Visit our website www.bluestarsilicones.com

Warning to the users

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