

CasEmol 16

(INCI: Hexadecane)



Three green rounded rectangular boxes with decorative green circles on the left and right sides:

- Ideal alternative to cyclic siloxanes
- Clear, colourless and low odour
- Independent integrated supply

Product Description

CasEmol paraffinic emollients are a range of ultra-high purity linear alkane hydrocarbons for use in a wide range of cosmetic applications. **CasEmol** emollients offer clear, colourless and low-odour performance. They offer excellent formulation versatility across a wide pH range and exhibit good oxidative stability. The breadth of the **CasEmol** range delivers a wide scope of sensory and technical performance, from dry effect through silky and smooth to high moisture retention cushiony feel.

CasEmol 16 is a C₁₆ alkane with excellent emollient properties, commonly used to improve the texture and performance of skincare, haircare, and makeup products. It provides a smooth, silky feel and enhances the overall formulation and is the ideal alternative to cyclic siloxanes.

It is the responsibility of the end-user to review the chemical control regulations for each country.

Applications

Applications:	Sun care, detangling sprays and hydrating body lotions.
Features:	Exceptional glide, silky after-feel, nourishing feel
Use Level:	4-10% typical

Features and Benefits

- Longer skin residence time – more moisturising than CasEmol 14, but not greasy.
- Improves active ingredient stability – excellent carrier for sensitive actives.
- Soft-glide texture – provides a luxurious feel without stickiness.
- Highest purity for consistent, high-performing results.
- Oxidatively stable in extreme pH formulas.
- Readily biodegradable.
- Independent integrated supply chain – giving true security of supply.
- UK REACH registration and regulatory support.
- Trusted partner – celebrating 100 years of chemical manufacturing in 2026.
- UK and US production centres – global network of sales offices – direct logistics.



Committed to Responsible Care

CasEmol 16

Physical and Chemical Properties

Chemical Name, synonyms	1-Hexadecane, C ₁₆ H ₃₄
CAS Number	544-76-3
Molecular Weight	226.44 g/mol
Boiling Point	287°C (548°F)
Melting Point	18°C (64°F)
Flash Point	135°C (275°F) Closed Cup
Viscosity	4.29 mm ² /s (20°C) (68°F)
Density	0.773 g/cm ³
Odour	Slightly paraffinic
Colour	Colourless
Solubility	Soluble in most organic oils and solvents, insoluble in water

Mode of Action

Long-Lasting Emollient – Provides lasting moisturisation and a smooth, cushiony skin feel.

Texture Optimiser – Enhances richness and slip while maintaining a light, comfortable finish.

Spreadability Agent – Improves uniform film formation for even SPF or conditioning coverage.

Silicone Alternative – Replicates the glide and softness of dimethicone in a biodegradable form.

Stability Enhancer – Strengthens emulsion stability and sensory consistency in lotions and sprays.

Guidelines for Use

Sun Care – Use at 3–8% to enhance spreadability, stabilise UV filters, and deliver even SPF coverage.

Detangling Sprays – Add at 2–6% to boost smoothness, reduce friction, and improve combability without weight.

Hydrating Body Lotions – Include at 5–12% for soft, long-lasting moisturisation and a silky, cushiony feel.

Packaging

Packaging specifications available on request.

Handling

Consult relevant Safety Data Sheet.

Shelf Life

12 Months.

Inventory Status

Australia (AICS)	Canada (DSL/NDL)	China (IECSC)	Indonesia	Israel	Japan (ENCS)	Korea (MoE/ECL/AREC)	Malaysia (EHSNR)	Mexico (INSQ)
✓	✓	✓	✓	✓	✗	✗	✓	✓
New Zealand	Philippines (PICCS)	Taiwan (TCSI)	Thailand (TDCA)	Vietnam (VNECI)	UK (REACH)	EU (REACH)	US (TSCA/FDA)	
✗	✓	✓	✗	✓	Grandfathered	Registered	Active	

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