

CasEmol 18

(INCI: Octadecane)

Alternative to
cyclohexasiloxane
(D6)

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 18 is designed for high-performance cosmetic and personal care applications. With exceptional purity and stability, **CasEmol 18** enhances product textures, boosts skin-conditioning effects and delivers a luxurious sensory experience. **CasEmol 18** is an ideal alternative to cyclohexasiloxane (D6), and petrolatum.

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

Applications

Applications:	Lipsticks and balms, rich barrier cream
Features:	Rich, buttery emollient
Use Level:	5-15% typical

Features and Benefits

- High occlusivity – excellent for dry and mature skin types in harsh climates.
- Stable in solid formulations – used in sticks, balms, and heavy creams.
- Long-lasting hydration – lingers on the skin, sealing in moisture effectively.
- 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


Thomas Swan
Consumer Actives

CasEmol 18

Physical and Chemical Properties

Chemical Name, Synonyms	n-Octadecane, C ₁₈ H ₃₈
CAS Number	593-45-3
Molecular Weight	254.49 g/mol
Boiling Point	317°C (603°F)
Melting Point	28-30°C (83-86°F)
Flash Point	166°C (330°F) Closed Cup
Viscosity	4.03 mm ² /s @ 20°C(14°F)
Density	0.777 g/cm ³ at 25°C (77°F)
Odour	Slightly waxy
Colour	Colourless
Solubility	Soluble in most organic oils and solvents, insoluble in water

Mode of Action

Rich Emollient – Provides deep, long-lasting moisturisation and a soft, velvety after-feel.

Texture Builder – Adds structure, creaminess, and body to formulations for a luxurious sensory experience.

Occlusive Agent – Forms a light protective layer to reduce trans-epidermal water loss and lock in moisture.

Silicone Alternative – Delivers smooth glide and cushion comparable to heavier silicones in rich formats.

Stability Enhancer – Improves consistency and texture stability in anhydrous or high-oil systems.

Guidelines for Use

Rich Creams – Use at 5–15% to enhance nourishment, softness, and long-lasting hydration.

Lip Balms – Include at 5–12% for smooth glide, even payoff, and moisture retention.

Solid Sticks (e.g. deodorants, balms) – Use at 8–20% to impart structure, smoothness, and creamy payoff.

Packaging

Packaging specifications available on request.

Handling

Consult relevant Safety Data Sheet.

Shelf Life

12 Months.

Inventory Status

Australia (AICS)	Canada (DSL/NDSL)	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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