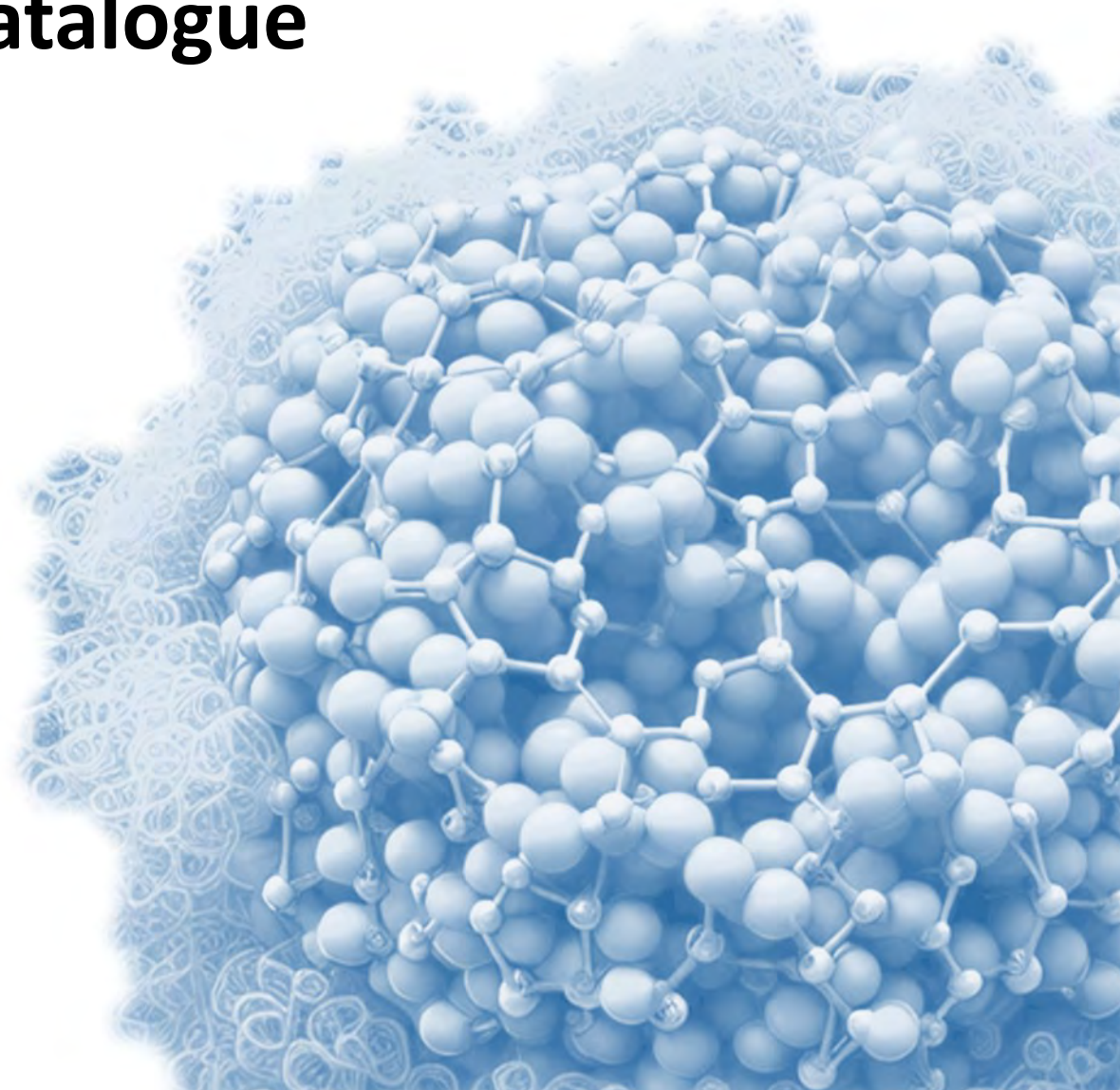


LIPODISO®

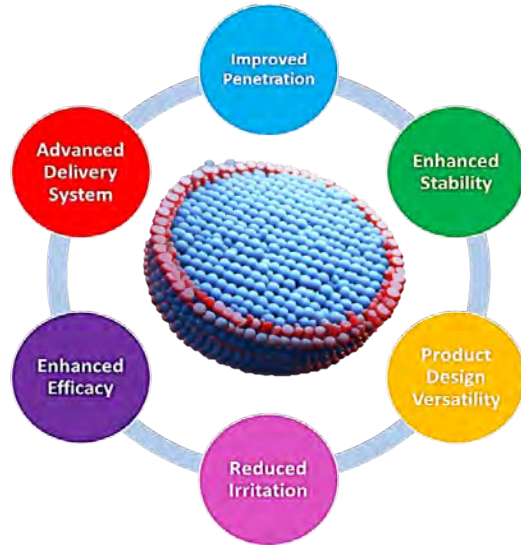
Personal Care Product Catalogue February 2025

Curiosity, Innovation.

Malvern Cosmeceutics Ltd

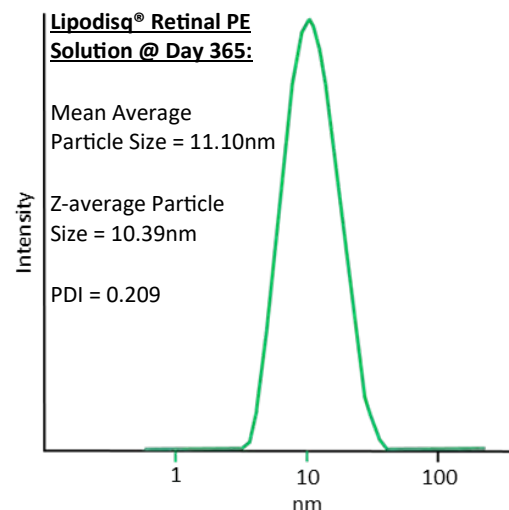


Lipodisq® technology represents a significant step forward in skincare science, addressing the key limitations of active agent stability and topical penetration whilst enhancing performance, efficacy and user experience. These attributes make Lipodisq® encapsulated Personal Care actives a preferred choice for individuals seeking effective, gentle, and scientifically advanced skincare solutions.



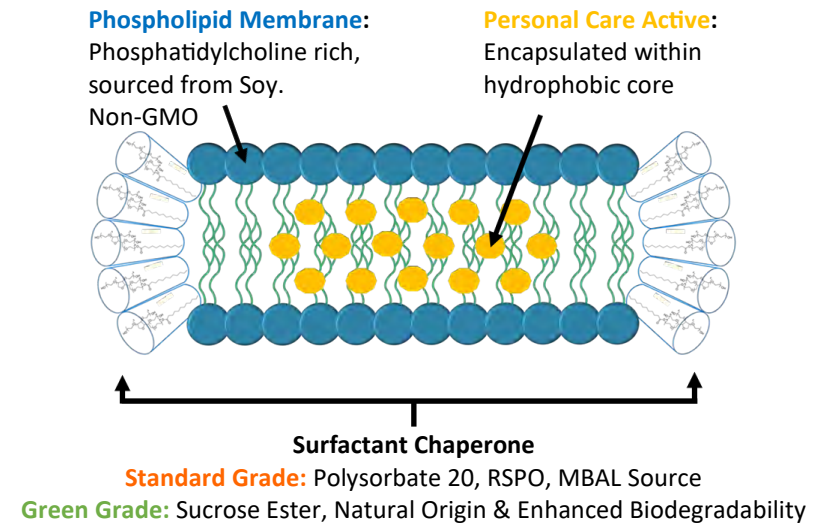
Key Features:

- Solubilise hydrophobic actives in water
- Small particle size (10–40nm)
- Enables production of clear aqueous gels/solutions
- Improved stability of actives
- Facilitates skin absorption
- Sustained release of actives
- Stable upon dilution and processing



Inspired by the structure of naturally occurring High Density Lipoprotein (HDL) endogenous in the human body, Lipodisq® are biodegradable self-assembling nano-structures, 10-40nm in size. Composed of naturally sourced phospholipid (Soy, Non-GMO) in the form of a phospholipid bilayer, stabilised by conventional surfactant structures, Lipodisq® technology is able to solubilise hydrophobic/lipophilic and amphiphilic active agents.

Encapsulation within Lipodisq® renders the active agents water soluble, enhances agent stability, increases topical penetration and increases the scope of formulation formats available to the formulator.



Lipodisq® encapsulated active agents are available in two formats for use in the personal care industry. Our most versatile **Standard Grade** solutions are composed of nano-structures assembled from Soy Phospholipids (non-GMO) and Polysorbate 20 (RSPO, MBAL). Our **Green Grade** solutions are Polysorbate free, utilising Sucrose Ester surfactants of natural origin, enhancing Biodegradability and Naturality profile.

LIPODISQ[®] RETINOIDS

Retinoids, particularly **Retinol**, are among the most extensively used ingredients within personal care and dermatology. Clinical evaluations consistently demonstrate their effectiveness in reducing fine lines and wrinkles, boosting collagen and elastin production, and diminishing hyperpigmentation and photo-damage. Despite these benefits, formulation challenges often arise due to Retinol's instability, as it degrades when exposed to light and air. Additionally, its poor water solubility limits its use primarily to oily, non-aqueous formulations.

Retinal is rapidly converted to retinoic acid in the skin through a single-step oxidative enzymatic process. This allows for a faster effect without accumulating in the skin, thereby minimizing the risk of irritation.

Product	INCI	Key Features
Lipodisq[®] Retinol PE Solution	Aqua, Polysorbate 20, Retinol, Lecithin, Phenoxyethanol, Ethylhexylglycerin, BHT, BHA	Anti-ageing, skin lightening / brightening, stimulates collagen production, thickens dermal layer and has a plumping effect.
Lipodisq[®] Green Retinol Solution	Aqua, Sucrose ester, Bioflavonoids, Retinol, Lecithin, Undecane, Pentylene glycol, Caprylyl glycol, Tridecane, Tocopherol	Anti-ageing, skin lightening / brightening, stimulates collagen production, thickens dermal layer and has a plumping effect. Fully biodegradable, natural origin Lipodisq[®] components. 99% Naturality Score!
Lipodisq[®] Retinal PE Solution	Aqua, Polysorbate 20, Retinal, Lecithin, Phenoxyethanol, Ethylhexylglycerin	Anti-ageing, skin lightening / brightening, stimulates collagen production, thickens dermal layer and has a plumping effect. Just one step metabolic conversion needed to form retinoic acid within the skin!

LIPODISQ[®] Standard Grade Personal Care Solutions:

Product	INCI	Key Features
Lipodisq[®] Ascorbyl Palmitate PE Solution	Aqua, Polysorbate 20, Lecithin, Ascorbyl Palmitate, Phenoxyethanol, Ethylhexylglycerin	Stimulates collagen production, anti-oxidant and radical scavenging, with anti-ageing, anti-pigmenting effect, reverses skin damage and protects against environmental aggressors.
Lipodisq[®] Hyaluronate PE Solution	Aqua, Sodium hyaluronate, Polysorbate 20, Lecithin, Phenoxyethanol, Ethylhexylglycerin	Sodium Hyaluronate: Selected low molecular weight (<10,000Da) grade to provide efficient moisturising and hydration, plumping, anti-aging and skin restructuring effects.
Lipodisq[®] Skin Brightener PE Solution	Aqua, Niacinamide, Sodium ascorbyl phosphate, Polysorbate 20, Lecithin, Phenoxyethanol, Ethylhexylglycerin	Promote even skin tone and reverses age-spot related pigmentation. Stabilised Vitamin C providing powerful anti-oxidant activity.
Lipodisq[®] Escin SAP PE Solution	Aqua, Polysorbate 20, Extract of <i>Aesculus hippocastanum</i> , Sodium ascorbyl phosphate, Lecithin, Phenoxyethanol, Ethylhexylglycerin	Vasoconstrictor and brightening properties to address skin surface redness, promote micro-circulation and lymphatic drainage under eye, combat cellulite in the leg/thigh.
Lipodisq[®] Niacinamide PE Solution	Aqua, Niacinamide, Polysorbate 20, Lecithin, Phenoxyethanol, Ethylhexylglycerin	Promote even skin tone and reverses age-spot related pigmentation.
Lipodisq[®] Oxyresveratrol PE Solution	Aqua, Polysorbate 20, Dipotassium Glycyrrhizate, Lecithin, Oxyresveratrol, Phenoxyethanol, Ethylhexylglycerin	Skin brightening / lightening properties via inhibition of tyrosinase. Potent anti-oxidant for ROS scavenging, anti-ageing, skin soothing and anti-inflammatory activity.
Lipodisq[®] Tranexamic Acid PE Solution	Aqua, Tranexamic Acid, Polysorbate 20, Lecithin, Phenoxyethanol, Dipotassium Glycyrrhizate, Disodium EDTA, Ethylhexylglycerin	Skin-brightening agent, improve uneven skin tone and reduce the appearance of dark spots, sun spots, and acne scars.

LIPODISQ® Green Grade Personal Care Solutions:

Lipodisq® Green Solutions mark the latest advancement in Lipodisq® technology, designed for formulators seeking higher naturality in their products without sacrificing delivery efficiency or performance. Free from Polysorbates, Phenoxyethanol, and Parabens, Lipodisq® Green Solutions can achieve a Naturality score of up to 100%.

Product	INCI	Key Features
Lipodisq® Green Retinol Solution	Aqua, Sucrose ester, Bioflavonoids, Retinol, Lecithin, Undecane, Pentylene glycol, Caprylyl glycol, Tridecane, Tocopherol	Anti-ageing, skin lightening / brightening, stimulates collagen production, thickens dermal layer and has a plumping effect.
Lipodisq® Green Hyaluronate Solution	Aqua, Sodium hyaluronate, Sucrose ester, Lecithin, Pentylene glycol, Caprylyl glycol, Bioflavonoids	Sodium Hyaluronate: Selected low molecular weight (<10,000Da) grade to provide efficient moisturising and hydration, plumping, anti-aging and skin restructuring effects.
Lipodisq® Green Niacinamide Solution	Aqua, Niacinamide, Sucrose ester, Lecithin, Pentylene glycol, Caprylyl glycol, Bioflavonoids	Promote even skin tone and reverses age-spot related pigmentation.
Lipodisq® Green Oxyresveratrol Solution	Aqua, Sucrose ester, Dipotassium Glycyrrhizate, Lecithin, Oxyresveratrol, Pentylene glycol, Caprylyl glycol, Bioflavonoids	Skin brightening / lightening properties via inhibition of tyrosinase. Potent anti-oxidant for ROS scavenging, anti-ageing, skin soothing and anti-inflammatory activity.

LIPODISQ[®]

Malvern Cosmeceutics Ltd
MHSP, Malvern, Worcestershire
WR14 3SZ United Kingdom

Lipodisq.com
+44 (0) 1684 216 415

General Curiosity:

enquiries@Lipodisq.com

enquiries@malverncosmeceutics.com

Lipodisq[®] technology is covered by one or more of the following patents owned by Malvern Cosmeceutics Limited:

AU 2006253886

CA 2,611,144

CN ZL200680018957.2

EP 1890675

GB 2426703

JP 5142898

IN 261468

US 8623414

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