

SalSphere® Sunkiss (SS SK)

A technology designed to generate an even and long-lasting sunless tan.

Dihydroxyacetone (DHA) is the only FDA-approved ingredient for sunless tanning, but it has an unpleasant odor and limited efficacy on its own. SS SK used a unique delivery system to mask the odor, and it combines DHA with other ingredients to enhance performance.

SS SK TREATMENT

UNIQUE FEATURES

1 INSTANT AND

LONG-LASTING TAN Due to the slow release system, SS

SK can offer long-lasting results.

2 REDUCED ODOR

The encapsulation technology of SS SK reduces the unwanted odor usually associated with sunless tanning products.

3 LONGER SHELF LIFE

Using the SalSphere® encapsulation and time release technology, avoid typical problems formulating with DHA, such as a limited shelf life and malodor.

HOW THE TECHNOLOGY HELPS YOU

SS SK is a unique sub-micron sphere delivery system designed to enhance the efficacy of DHA. The technology is composed of spheres that have a polymeric core infused with DHA (Figure 1). The mechanism of operation is based on the core slowely partitioning into the skin to release DHA over time. This produces a natural-looking, even tan that lasts longer (Figure 2).



Figure 1: The sub-micron structure of SS SK with its shell and core encapsulating DHA.



SS SK raw





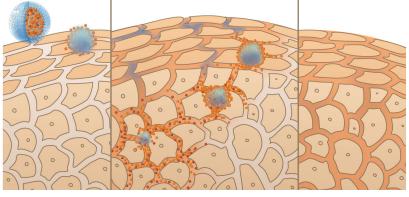


Figure 2: SS SK mechanism of release into the stratum corneum results in an even, natural-looking tan.



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ENHANCED STABILITY AND SHELF LIFE	SS SK technology protects DHA from premature reactivity, thus enhancing stability (Figure 3). By enhancing stability, SS SK is able to deliver a maximum amount of DHA to the skin for increased efficacy. Unencapsulated DHA, in a lotion loaded at 8%, shows discoloration after just five days (Figure 4). The figure 4). Encapsulation of DHA is SS SK significantly reduces the undesirable odor that is characteristic of sunless tanning products (Figure 5).		Figure 4: Lotions containing SS SK (A) and free DHA (B) at 8% loading after five days under accelerated conditions of 50°C. SalSphere® Sunkiss Free		
FORMULATION			(for the second		
FORMULATION	Ingredients	(W/W %)	TECHNICAL	Appearance @ 20°C	Opaque paste
	SalSphere® Sunkiss	2	DATA	Applications	Skin care products
	SalColorFx [™] White to Brown	2			such as lotions and creams
	Salvona Pre-Mix A #5019	20		Color	Off-white
	DI Water	75		Odor	Characteristic
	Preservative	1		pH (1% Solution)	4.5 ± 1.5
				Shelf Life (months)	24
				Usage Level (wt%)	5

Closed container at 12-32°

Storage (°C)