

# MultiSal<sup>®</sup> Vitamin C (MS VC)

An encapsulation system designed to rejuvenate and maintain skin.

Vitamin C is an antioxidant that increases collagen synthesis, which reduces wrinkles and fine lines. Vitamin C also increases the collagen levels in the blood vessels under the skin<sup>1</sup>, which will allow the blood vessels to carry more nutrients to the skin to make it look and feel healthier.

Vitamin C is an excellent rejuvenator for the skin, but it can also discolor during formulation and interact with other formulation components. The MultiSal<sup>®</sup> encapsulation protects the Vitamin C from interacting with formulation components, preventing discoloration and providing a longer shelf-life.

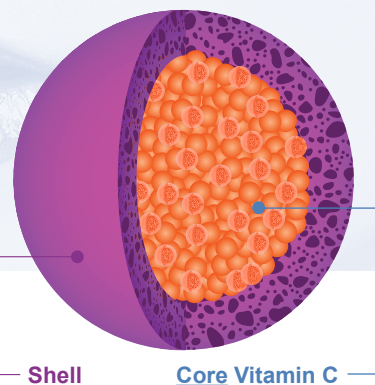


Figure 1: The sub-micron structure of MS VC, with the Vitamin C infused within the core.

## UNIQUE FEATURES

- 1 STABLE VERSION** of Vitamin C with increased shelf-life.
- 2 MOISTURE-TRIGGERED RELEASE** keeps product performing at optimal potency.
- 3 VERSATILE PRODUCT** with top-notch performance in soap bars, body lotions, powders, and more.

## FORMULATION

### Lotion

Ingredients	(W/W %)
MultiSal <sup>®</sup> Vitamin C	2
SalSphere <sup>®</sup> Aqua Skin	5
MultiSal <sup>®</sup> Retinol	0.5
Salvona Pre-Mix A #5019	20
DI Water	71.5
Preservative	1

## HOW THE TECHNOLOGY HELPS YOU

MS VC is a double-layered encapsulation system composed of a microsphere containing sub-micron spheres (Figure 1). The sub-micron spheres contain the Vitamin C for a triggered-release. MultiSal<sup>®</sup> technology is designed to enhance absorption and deliver the Vitamin C directly to the skin, where it will be most effective.

## TECHNICAL DATA

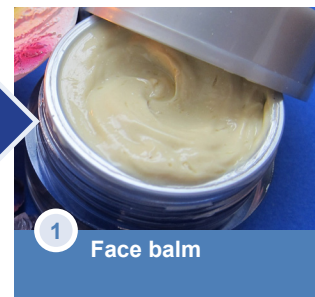
<b>Appearance @ 20°C</b>	Free flowing powder
<b>Applications</b>	Suitable for skin, foot, and lip care
<b>Color</b>	Pale yellow
<b>Odor</b>	Mild
<b>pH (1% Solution)</b>	4.0-6.0
<b>Shelf Life (months)</b>	24
<b>Usage Level (Wt.%)</b>	Lip care: 3 Skin care: 1-5
<b>Storage (°C)</b>	Closed container at 12-32° with <45% RH

### References

1. Alexander J. Michels, Ph.D. "Vitamin C and Skin Health." Micronutrient Information Center (2011): 1.



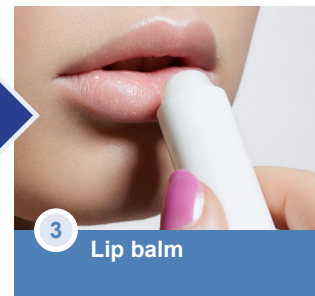
MS VC raw



1 Face balm



2 Gel



3 Lip balm