

Technical Data Sheet

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Sprayspheres SE can be used as exfoliant and at the same time for visual effects in facial cleansers, body scrubs, foot scrubs, gels, emulsions, soaps etc. The beads are hard, remain suspended in formulations and work as a skin abrasive when rubbed on the skin. They have a long shelf life without any added preservatives.

PRODUCT INFORMATION:-

Product Name: SPRAYSPHERE SE (SE-WH-4012-VVS)		
	Ingredients	CAS NO
Ingredient Declaration :	<ul style="list-style-type: none"> • Microcrystalline cellulose 	9004-34-6
Country of origin : India		

ANALYTICAL INFORMATION :

Test	Specification
Appearance	Free-flowing White colored spheres.
Solubility	Practically insoluble in water.
Particle Size	NLT 80% should pass through 50# & NMT 20% should pass through 60#.
Bulk Density	NLT 0.6 gm/cc.
pH (1.0% Slurry)	5.0 – 8.0.
Loss on Drying	NMT 8.0% .
Leaching test in water	Stable at : pH 3.0 pH 5.5 pH 8.0

GENERAL INFORMATION:-

1.	Properties	Sprayspheres SE beads are hard with exfoliating properties. They do not become soft when incorporated in aqueous or oil based cosmetic vehicles. The beads retain their shape and scrub away the surface layer of dead skin acting as a body scrub and cleanser.
2.	Application	These beads can be used as an exfoliant and also to provide visual effects in facial cleansers, scrubs, gels, emulsions, soaps etc.
3.	Composition	Sprayspheres SE contain Microcrystalline cellulose

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4.	Absences of Impurities	Impurities like glycols, dioxins, glutens, formaldehyde, residual solvents are absent.
5.	GMO / BSE	The ingredients used for manufacturing these spheres are not based on animal derived source and are not of genetically modified origin.
6.	CMR	The products are free from any of the special risk substances classified as carcinogenic, mutagenic or toxic for reproduction.
7.	Manufacturing and Quality Control	The entire manufacturing operations are carried out using equipment's in hygienic clean facilities to ensure high quality of final product. The quality of the products is always assured by the specifically laid down quality control practices. The well-equipped analytical laboratory ensures the use of the prescribed quality material, and follows processes in place for final analysis of the product.

HANDLING & PROCESSING INFORMATION:-

1.	Processing of Final Product	Sprayspheres SE are insoluble in water and not hygroscopic. When added to formulations they will remain hard and function as an abrasive. Avoid any ingredients that could act as solvents or cause other incompatibilities with ingredients of the Sprayspheres. There is a risk of sedimentation in all aqueous systems, surfactant products and liquid emulsions. Therefore use of mixtures containing synthetic and natural polymers is recommended as they give better results than one thickening agent alone or ensuring that the final formulation has sufficient viscosity and internal gel structure.
2.	Handling	Any mechanical influences on the beads should be avoided during manufacturing and filling processes. High shearing like homogenization, which is a common process for emulsifying cosmetic formulations, will destroy the spheres. The beads should be only be added at the very end of the manufacturing process with slow and gentle stirring.
3.	Stability	The individual stability data for Sprayspheres are available upon request. Stability studies have been carried out in different medias, the pH range stated and at two different temperatures.
4.	Addition procedure	Addition will be at room temperature (25°C) at the end of the process with gentle, low speed stirring until homogenous distribution is obtained.
5.	Use Level	Depending on particle size and performance desired, Sprayspheres are typically used between 0.5- 2 % in the final product.

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6.	Storage	Store in a tightly closed container in dry place at temperature of 25°C.
7.	Safety	The product is safe and non-toxic for its intended use. Avoid inhalation of dust of product or contact with eyes, mouth or nose by taking suitable preventive measures. Also refer to Material Safety Data Sheet.
8.	Shelf life	3 years from the date of manufacturing.

DISCLAIMER:-

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