

Technical Data Sheet

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Sprayspheres SC Beads can be encapsulated with a range of vitamins, fragrances, oils etc. and also used to create visual effects in a range of personal care water-based formulations such as facial cleansers, creams, lotions, gels, emulsions, soaps etc. The beads are hard when dry and have a long shelf life without any added preservatives. They remain suspended in formulations and disappear on gentle rubbing.

PRODUCT INFORMATION:-

Product Name: SPRAYSPHERES SC (SC-CH-3001-M)		
	Ingredients	CAS NO
Ingredient Declaration :	<ul style="list-style-type: none"> Microcrystalline Cellulose Hydroxypropyl Methylcellulose (HPMC) Lactose Activated Charcoal 	9004-34-6 9004-65-3 63-42-3 7440-44-0
Country of origin : India		

ANALYTICAL INFORMATION:-

Test	Specification
Appearance	Free flowing ,black coloured spheres
Solubility	Partially soluble in water & insoluble in oils.
Particle Size	NLT 80% should pass through 14 # & NMT 20% should pass through 20 #.
Bulk Density	NLT 0.6 gm/cc.
pH Value (1% slurry)	3.0 - 8.0
Loss on Drying	NMT 5.0%
Leaching test	Shall be Stable at : pH 3.0 Stable at : pH 5.5 Stable at : pH 8.0

GENERAL INFORMATION:-

1.	Properties	Sprayspheres SC Beads are hard when dry but soften in contact with at least 20 % water. They disappear on gentle rubbing when used on the skin without leaving any shell residue. Sprayspheres are stable over a wide range of pH 3.0 to 8.0, are safe and non-toxic.
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2.	Application	Sprayspheres SC Beads can be encapsulated with a range of vitamins, oils, fragrances and actives. They are used to create visual effects in creams, lotions, shampoos, conditioners, facial cleansers, gels, soaps etc.
3.	Composition	Sprayspheres SC Beads contain Microcrystalline cellulose, Lactose, Hydroxypropyl Methylcellulose (HPMC), Activated Charcoal.
4.	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.	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.
2.	Stability	Due to the inert ingredients used for manufacturing, the spheres are very stable at temperatures up to 25°C, pH-range 5 to 8. 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.
3.	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.
4.	Use Level	Depending on particle size and performance desired, Sprayspheres are typically used between 0.5- 2% in the final product.
5.	Storage	Store in a tightly closed container in dry place at temperature of 5-25°C.
6.	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.
7.	Shelf life	3 years from the date of manufacturing.

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DISCLAIMER:-

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