

NIPAGUARD SCE

Technical Data Sheet

NIPAGUARD SCE

Preservative for the cosmetic industry

Chemical name	Preservative blend consisting of Sorbitan Monoctanoate, 1,3-Propanediol and Benzoic Acid
INCI Name:	Sorbitan Caprylate (and) Propanediol (and) Benzoic Acid

Product properties ¹

Appearance (20°C)	See specification
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Chemical and physical data

Gardner colour	max. 8
Density (20°C)	1.12 g/cm ³
Benzoic acid	approx. 15% w/w
Propanediol	approx. 20% w/w
Sorbitan Caprylate	approx. 65% w/w

Use

Nipaguard™ SCE is a broad spectrum antimicrobial agent comprising a synergistic blend of Benzoic Acid in Velsan SC (INCI: Sorbitan Caprylate) and Propanediol; designed for preservation of a wide range of cosmetics and toiletries. This blend is part of Clariant EcoTain range and is Cosmos and Natrue certified, which makes it ideal for preservation of natural cosmetic products.

Publisher

Rothausstrasse 61
 4132 Muttlenz
 Switzerland

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¹ These characteristics are for guidance only and not to be taken as product specifications. The tolerances are given in the product specification sheet. For further product properties, specifications, safety, and ecological data, please refer to the MSDS.

Regulatory status

Europe: Nipaguard SCE can be used up to a maximum concentration of 3.1 % in leave-on products and practically no limitations for rinse-off (15.6%) and Oral Care (10.6%). No further restrictions according to Annex V of regulation (EC) No 1223/2009 have to be considered.

Japan: Maximum concentration 1.33 % for all kinds of cosmetic products.

USA: No restrictions, the ingredients of Nipaguard® SCE are designated “safe as used”.

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Applications

Typical use concentrations of Nipaguard™ SCE are 0.5 – 1.5 % for most cosmetic formulations. Nipaguard™ SCE provides activity against gram positive and gram negative bacteria, yeasts and moulds. It works best at low pH from 4-5, but has also significant performance up to a pH of 6.5.

Incorporation

As a liquid Nipaguard™ SCE is easily incorporated into formulations to be preserved. The solubility in water is below 0.05 g/l (20°C) and it is readily miscible with many organic solvents, surfactants and emulsifiers.

pH stability

Nipaguard SCE remains fully stable from pH 4.0 – 8.0.

Temperature stability

Nipaguard SCE remains fully stable over a wide temperature range, up to 80°C. Nevertheless it is best added during the cooling stage of the formulation.

Microbial activity

Nipaguard SCE exhibits microbial activity against a wide range of bacteria, yeast and moulds. This is illustrated by the following table which shows the minimum inhibitory concentration (MIC) of Nipaguard™ SCE against examples of different groups of microorganisms

Microorganisms		MIC level in ppm Determined in liquid growth media	
Bacteria		Yeasts	
<i>Burkholderia cepacia</i>	1000	<i>Candida albicans</i>	500
<i>Escherichia coli</i>	5000	<i>Candida parapsilosis</i>	500
<i>Klebsiella aerogenes</i>	5000	<i>Saccharomyces cerevisiae</i>	250
<i>Klebsiella pneumoniae</i>	2000	Molds	
<i>Kocuria rhizophila</i>	500	<i>Aspergillus brasiliensis</i>	1000
<i>Pluralibacter gergoviae</i>	8000	<i>Aspergillus terreus</i>	500
<i>Pseudomonas paraeruginosa</i> *	5000	<i>Fusarium solani</i>	250

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<i>Staphylococcus aureus</i>	500	<i>Talaromyces pinophilus</i>	100
		<i>Talaromyces purpurogenus</i>	250

Storage instructions

Store in the air-tight original sealed containers protected from direct sunlight, moisture and heat at ambient temperature (15 – 25 °C). Brief deviation from the storage temperature, e.g., during transport does not impair product quality or shelf life.

Product should be protected from cold to avoid crystallization of Benzoic acid. If product shows sedimentation, it should be thoroughly homogenized at max 40°C.

Further information on handling, storage and dispatch is given in the EC safety data sheet.

Safety

Further information on handling, storage and dispatch is given in the material safety data sheet.

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