

TECHNICAL DATA SHEET

Effective date: 01.2021
Rev.2

COSGARD

INFORMATION ON SUBSTANCE / MIXTURE

INCI	Benzyl alcohol, Salicylic acid, Glycerin, Sorbic acid
Description	Offers broad spectrum protection in a diverse range of products against Gram-positive & Gram-negative bacteria, yeast and molds.
Key product attributes	A preservation system that meets the ECOCERT standards, COSMOS accepted Broad spectrum activity on bacteria, yeast and molds, wide range of global regulatory acceptance, low odor profile, wide pH compatibility: pH 3–8, excellent safety profile
Manufacturing process	Mixing of ingredients
Raw material category	Preservative

TECHNICAL DATA

Physical parameters

Appearance	Liquid
Color	Clear, colorless to light yellow
Odor	Characteristic
Relative density at 25°C	1.018 - 1.118

Chemical parameters

Benzyl alcohol	77–86 %
Salicylic acid	8–15 %
Glycerin	3–5 %
Sorbic acid	1–4 %

TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in closed packaging, away from light, at a steady and moderate temperature. May crystallize upon exposure to cold temperature. Warm gently and mix before use.
Shelf Life	36 months, in closed packaging and the recommended conditions.

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Customs code	-
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LEGISLATION

Certification	-
EU Cosmetic Regulation EC/1223/2009	We confirm that the above product is fully compliant with all relevant aspects of the EU Cosmetic Regulation (EC/1223/2009).
CMR	From 1st May 2020 Salicylic acid will be classified as Repr. 2; H361d under EU CLP. However, an SCCSf review concluded that "The SCCS considers salicylic acid (CAS 69-72-7) safe when used as preservative at a concentration of 0.5 % in cosmetic products considering its current restrictions in place.
Nanomaterials	No intentionally added ingredient meets the definition of a nanomaterial.
Animal testing	We confirm that the abovementioned material and its component parts have not been the subject of animal testing or retesting for cosmetic purposes.
Traces	Traces of prohibited substances not expected above background levels typically found in the environment.
EINECS	202-859-9/ 200-712-3/ 200-289-5/ 203-768-7
CAS	100-51-6/ 69-72-7/ 56-81-5/ 110-44-1

EFFICACY TESTS conducted by the manufacturer

Microbiological Challenge Studies

Studies were run on five formulas using a 1.0% concentration of Product. The protocol used was a CTFA challenge test. All samples were inoculated at the beginning of the study, sampled at 24 hours, 7, 14, 21 and 28 days. The samples were diluted in neutralizer and plated quantitatively for viable organisms at all sampling times. After 28 days, all samples were re-inoculated and subjected to a second challenge.

Make-Up Remover

pH: 5.15
% water: 90%; AW: 0.980
Ingredient %
Deionized Water q.s. to 100%
Propylene Glycol 2.00%
Glycerin 2.00%
PEG-8 2.00%
Decyl Glucoside 4.00%
Total 100.00%

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Test results: Colony Forming Units per Gram (CFU/g)

Test Organism	Unpreserved Control				Test Cosgard Preservative(1%)			
	Initial Challenge			Rechallenge	Initial Challenge			Rechallenge
	24 hrs	7 days	28 days	28 days	24 hrs	7 days	28 days	28 days
<i>S. aureus</i>	9.0x10	<10	<10	<10	2.0x10	<10	<10	<10
<i>K. pneumoniae</i> + <i>E. gergoviae</i>	5.3x10 ³	<10	<10	<10	4.0x10	<10	<10	<10
<i>P. aeruginosa</i> + <i>B. cepacia</i>	3.3x10 ⁵	1.8x10 ⁶	1.4x10 ⁶	7.7x10 ⁶	1.0x10	<10	<10	<10
<i>C. albicans</i>	1.8x10 ⁴	1.9x10 ⁴	1.2x10 ⁴	1.5x10 ⁴	<10	<10	<10	<10
Mixed molds	1.5x10 ⁴	2.4x10 ⁴	1.1x10 ⁴	7.0x10 ⁴	<10	<10	<10	<10

Hair Conditioner

pH: 3.9
% water: 73.7%; AW: 0.976
Ingredient %
Phase A
Deionized Water q.s. to 100%
Hydroxyethylcellulose 0.30%
Phase B
Cetrimonium Bromide & Cetearyl Alcohol 1.00%
Stearyl Alcohol 1.00%
Steareth-21 2.50%
Polysorbate 80 0.50%
Lecithin 1.00%
Water 20.00%
Total 100.00%

Test results: Colony Forming Units per Gram (CFU/g)

Test Organism	Unpreserved Control				Test Cosgard Preservative(1%)			
	Initial Challenge			Rechallenge	Initial Challenge			Rechallenge
	24 hrs	7 days	28 days	28 days	24 hrs	7 days	28 days	28 days
<i>S. aureus</i>	3.5x10 ⁵	<10	<10	<10	<10	<10	<10	<10
<i>K. pneumoniae</i> + <i>E. gergoviae</i>	9.4x10 ⁵	3.4x10 ⁵	2.6x10 ⁸	3.5x10 ⁶	<10	<10	<10	<10
<i>P. aeruginosa</i> + <i>B. cepacia</i>	4.9x10 ⁵	>10 ⁶	3.0x10 ⁸	<10	2.0x10 ²	<10	<10	<10

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<i>C. albicans</i>	3.3x10 ⁵	3.3x10 ⁶	2.7x10 ⁶	2.8x10 ⁷	6.0x10	<10	<10	<10
Mixed molds	2.1x10 ⁴	3.5x10 ³	1.2x10 ³	1.4x10 ⁴	<10	<10	<10	<10

Water in Oil Emulsion Cream

pH: n/a

% water: 75%; AW: 0.963

Ingredient %

Phase A

Deionized Water q.s. to 100%

Glycerin 3.00%

Sodium Chloride 1.00%

Phase B

Cyclomethicone & Dimethicone 10.00%

Cyclopentasiloxane 8.50%

Cyclomethicone & Dimethicone &

Petrolatum 2.50%

Total 100.00%

Test results: Colony Forming Units per Gram (CFU/g)

Test Organism	Unpreserved Control				Test Cosgard Preservative(1%)			
	Initial Challenge			Rechallenge	Initial Challenge			Rechallenge
<i>S. aureus</i>	24 hrs	7 days	28 days	28 days	24 hrs	7 days	28 days	28 days
	8.6x10 ⁴	<10	<10	<10	<10	<10	<10	<10
	<i>K. pneumoniae</i> + <i>E. gergoviae</i>	5.6x10 ⁴	<10	<10	<10	<10	<10	<10
<i>P. aeruginosa</i> + <i>B. cepacia</i>	3.1x10 ⁴	2.9x10 ³	<10	3.4x10 ⁵	<10	<10	<10	<10
<i>C. albicans</i>	4.6x10 ⁴	1.3x10 ⁴	2.9x10 ³	5.3x10 ⁴	<10	<10	<10	<10
Mixed molds	1.2x10 ⁴	9.7x10 ³	7.0x10 ³	3.4x10 ⁵	<10	<10	<10	<10

DISCLAIMER

All warranty claims in respect to the conformity of our product are subject to our General Terms and Conditions of Sale and Delivery. The data listed above reflects the results of the manufacturer or our supplier quality tests. We do not hereby make any express or implied warranty, whether for specific properties or for fitness for any particular application or purpose. All values are valid for the product when dispatched from the works. We recommend you perform your own quality and or identification checks on receipt.