



Chemipol



SENSICARE® M 4200

Мультифункциональная смесь для косметического применения

Основные характеристики

SENSICARE M 4200

Рекомендации по применению и вводу

SENSICARE M 4200

Преимущества:

-
-
- : особенно

Не тестировался на животных.

Обычная концентрация использования **SENSICARE M 4200** от 1,0% до 2,0% в качестве единственного консерванта и от 0,25% до 1,0% в сочетании с другими консервантами. The use levels depends on the characteristics of the product where added and the environmental conditions to which it is exposed. The optimum concentration should be assessed by means of laboratory assays depending on the application.

Technical data		Active ingredients	
Appearance	White powder.	INCI Name	CAS Number
Odour	Mild characteristic.	Gluconolactone	90-80-2
pH (1%)	4,5 – 6,5	Sodium Benzoate	532-32-1
Density	< 0,75 g/cc	Calcium Gluconate	299-28-5
Solubility (5%)	Soluble in water, propylene glycol, glycerin, mineral oil.		

Use guidelines

SENSICARE M 4200 is soluble in water. It is adaptable to the most common personal care formulations. It is compatible with the most common ingredients including cationic, anionic and non-ionic surfactants. It can be used over a wide pH range from 3 to 7. As general rule its recommended its addition in the aqueous phase but can be added at both room, can be dosed at room temperature as well as at higher temperatures.

The addition of Gluconolactone could affect the pH stability of some cosmetics formulations, the process of hydrolysis of Gluconolactone can decrease the pH of the final product and could be necessary the addition of a buffering system like this: Respect each 100 ppm of **SENSICARE M 4200** the formulation needs 18 ppm of Citric acid (anhydrous) and 202 ppm of sodium citrate (anhydrous) and then we recommend recheck pH stability.

Effectiveness

SENSICARE M 4200 has shown its effectiveness against the following microorganisms among others.

Type	Microorganism	MIC %
Bacteria Gram -	<i>Escherichia coli</i>	0.6
Bacteria Gram -	<i>Pseudomonas aeruginosa</i>	0.5
Bacteria Gram +	<i>Staphylococcus xylosus</i>	0.4
Yeast	<i>Aspergillus niger</i>	0.5
Mould	<i>Candida albicans</i>	0.5





Chemipol



SENSICARE® M 4200

Мультифункциональная смесь для косметического применения

Microbiological Effectiveness

The efficacy as preservative is assessed by inoculating a suspension of microorganisms into typical cosmetic formulations containing **SENSICARE® M 4200**. Inoculum titer is about 1×10^6 cfu/ml of bacteria pool and 1×10^4 cfu/ml fungi pool (molds and yeasts). One sample is kept blank without preservative as a growth control. After the incubation period is counted the number of microorganisms grown in the culture media after 7, 14 and 28 days of contact.

Test moisturizing cream	Bacteria (cfu/ml)			Fungi (cfu/ml)		
	Day 7	Day 14	Day 28	Day 7	Day 14	Day 28
Unpreserved moisturizer	2	3	3	1	1	2
Moisturizer + 1,0 % SENSICARE M 4200	0	0	0	0	0	0

Product sample:

<i>Raw material</i>	%
Water deionized	q.s.
Glyceryl Tricaprate	2,00
Glyceryl Tricaprate	2,00
PEG Stearate	1,50
Glyceryl Stearate	2,00
Decaglyceryl Stearate	5,00
Thickener	2,00
SENSICARE M 4200	1,00
Total:	100,00

Growth rating:

0 = no growth
1 = slight (10^4)
2 = moderate (10^5)
3 = higher than inoculum (10^6)

Shampoo	Bacteria (cfu/ml)			Fungi (cfu/ml)		
	Day 7	Day 14	Day 28	Day 7	Day 14	Day 28
Unpreserved shampoo	3	3	3	3	3	3
Shampoo + 1,5 % SENSICARE M 4200	0	0	0	0	0	0

Product sample:

<i>Raw material</i>	%
Water deionized	q.s.
Sodium Lauryl Ether Sulfate	15,0
Triethanolamine Lauryl Sulfate	10,0
Cocamide DEA	3,0
Anhydrous Protein	1,0
50% Aqueous Citric acid	pH buffer
SENSICARE M 4200	1,5
Total:	100,00

Growth rating:

0 = no growth
1 = slight (10^4)
2 = moderate (10^5)
3 = higher than inoculum (10^6)



Chemipol



SENSICARE® M 4200
Мультифункциональная смесь для косметического применения

Hair conditioner	Bacteria (cfu/ml)			Fungi (cfu/ml)		
	Day 7	Day 14	Day 28	Day 7	Day 14	Day 28
Unpreserved conditioner	3	3	3	3	3	3
Conditioner + 1,0 % SENSICARE M 4200	0	0	0	0	1	0

Product sample:

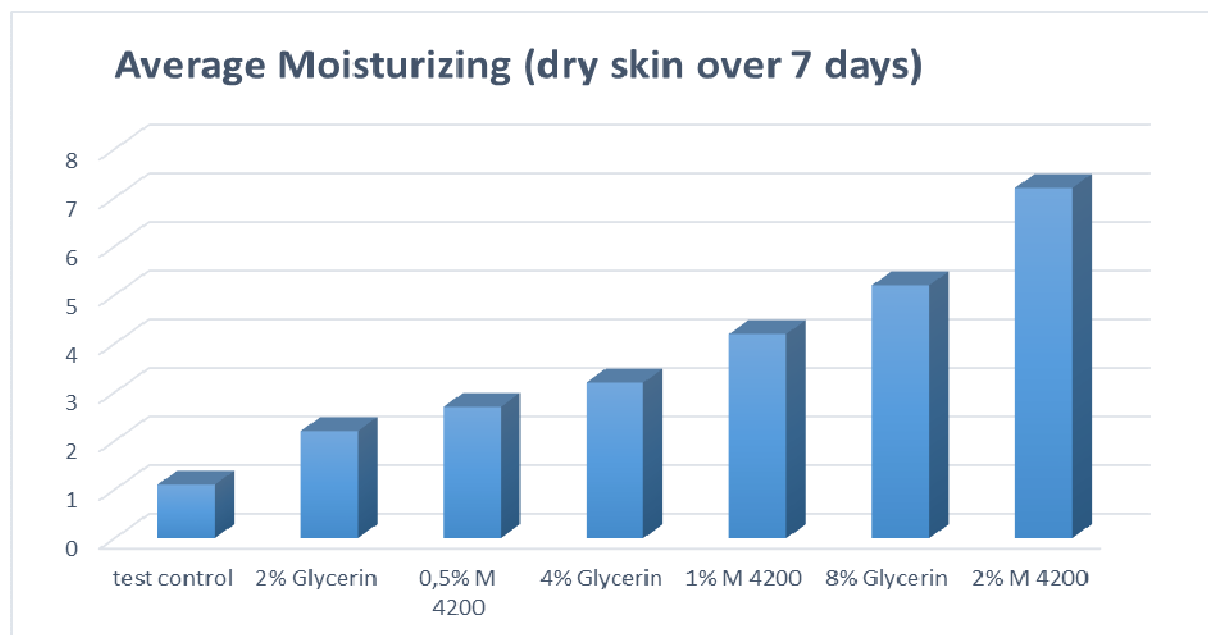
<i>Raw material</i>	%
Water, deionized	q.s
Glycosperse 0-20 – Polysorbate 20	0,5
Lecithin	1,0
Distearyldimonium Chloride	2,0
Cetyl Alcohol	2,1
Cetearyl Alcohol	1,5
Lauryl Alcohol	3,1
10% Aqueous Sodium Hydroxide	adjust
SENSICARE M 4200	1,0
Total:	100,00

Growth rating:

- 0 = no growth
- 1 = slight (10^4)
- 2 = moderate (10^5)
- 3 = higher than inoculum (10^6)

Moisturizing Effectiveness

Gluconolactone is a recognized moisturizing agent, in this assay his moisturizing effectiveness is compared with the performance of a general moisturizer like Glycerin , the assays consist in applied aliquot of moisturizing cream on 10 subjects with dry skin type over 7 days , the results are showed on the following table:





Chemipol



SENSICARE® M 4200

Мультифункциональная смесь для косметического применения

Общая информация о хранении, безопасности и транспортировке

SENSICARE M 4200 is not classified as dangerous product for transport. For further information, refer to the material safety data sheet. Standard packaging is drum 25 Kg net.

Protect from frost, heat and direct sunlight. Store at room temperature in the original container. Well stored in the original container, its shelf life is 24 months.

The information here contained and recommendations regarding our products are for the purposes of general guidance only. It is given in good faith as assistance to Users and no liability can be derived from it. Due to the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the information/products for the applications disclosed. We cannot guarantee how any products associated with this information will perform in combination with other substances or in User's process. Users are advised to test by themselves. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without the permission of the patent owner. **Chemipol makes no warranties, express or implied, including, but not limited to, the implied warranties of merchantability or fitness for a particular purpose.** Use chemicals safely. Always read the label and product information before use. Please, contact us for further information. We have available Technical Data Information, Material Safety Data Sheets and Product Regulatory Information.

Наши рекомендации в отношении наших продуктов основаны на детальных исследованиях, разработанных нашим Техническим отделом. Они предоставляются добросовестно и с честными намерениями, но никакой ответственности из них не вытекает. Использовать химические препараты осторожно. Всегда читайте этикетку и информацию о продукте перед использованием.
