



# Sarex Chemicals

(A Divn. Of Saraf Chemicals Pvt. Ltd.)

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## PRODUCT LITERATURE

### SARAGUARD-5700

#### Product Information

Saraguard-5700 is a methanol free antimicrobial agent for finishing of all types of textile substrate. Saraguard-5700 can be applied by padding, exhaust, soaking and spraying methods. Saraguard-5700 is non-leaching antimicrobial agent. It is effective against broad spectrum of microbes. It shows antibacterial and antifungal activity by contact mechanism. Saraguard-5700 shows excellent antimicrobial activity on non-woven substrates also.

It can be applied by spray technique on the surface of shoes and packing box or paper to prevent mildew formation.

#### Key Features & Benefits

Key features -----	Benefits -----
Non-leaching	Durable to multiple home launderings
Broad spectrum	Works on all types of microbes such as Staphylococcus aureus, Escherichia coli, Klebsiella pneumoniae, Methicillin - Resistant Staphylococcus aureus (MRSA), Aspergillus Niger
Universal	Suitable for cotton, polyester, polyamide, acrylic and polypropylene non woven
Concentrated	Moisture content less than 1%

#### General Characteristics

Physical appearance	: Colourless to yellow liquid
Ionic Nature	: Cationic
pH of 1% solution	: 5.5 +/- 1
Miscibility	: Miscible with water
Compatibility	: Compatible with cationic and nonionic products
Stability	: Stable to dilute acids and unstable to dilute alkalies



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#### Application

##### Padding process

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Saraguard-5700	: 20-60 g/l
Saralink-ULF	: 30 g/l + 6 g/l MgCl <sub>2</sub> (Optional, to improve extended durability)
Pick-up	: 65-70 %
Bath pH	: 5.0-6.0
Drying	: 140-160 deg.C, 1 min. (all substrates)
	: 120-130 deg.C, 60 sec. (polypropylene)

##### Exhaust process

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Saraguard-5700	: 2-6 %
Bath pH	: 5.0-6.0
Bath Temp.	: 30-40 deg.C
Time	: 15-20 mins.

##### Precautions:

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The product is supplied in the anhydrous form. The product to be diluted with water just before a treatment only when ready for processing of textiles. Once added to the pad bath / exhaust bath the stability of such a bath is limited; due to hydrolysis of the active ingredients in our antimicrobial leading to self cross linking. Hence, padding bath containing Saraguard-5700 should be used up in the shortest time possible, as extended storage of such bath would lead to formulation of insoluble particles which may settle as precipitation and reduces performance.

Kindly note that the product is readily dilutable and stored in anhydrous polar solvents like methanol, ethanol, iso-propyl alcohol or low molecular weight glycol like MEG or DEG.

##### Test Results:

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- Cotton, polyester and their blended fabrics finished with 60 g/l Saraguard-5700 shows 80-95% reduction in bacterial count by AATCC-100 after 20 Home Launderings.
- Polyamide and acrylic fabrics finished with 60 g/l Saraguard-5700 shows 95-100% reduction in bacterial count by AATCC 100 method.



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#### Instructions For Dilution

Procedure to prepare 5%, 10% & 20% Saraguard-5700

	Dilution		
	5%	10%	20%
Saraguard-5700	12.5	25	50
Butyl Di-glycol	87.5	75	50
Total :	100	100	100

- Take Saraguard-5700 in dry vessel
- To this gradually add butyl di-glycol under constant stirring
- Continue stirring till homogenous product is obtained

Note:

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Even one drop of water will polymerise the material so, care should be taken that there should not be water at any stage of dilution or during packing.

#### Precautions

Storage : Store in cool, ventilated shed away from heat and direct sunlight. Storage temperature should not exceed 35 deg C. Close lids firmly to avoid contact with air and moisture.

Shelf Life : 9 months from the date of manufacturing, if stored under controlled conditions.

[The above information is given in good faith and is without warranty]  
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