

Sanitized[®] TH 27-24

Makes textiles fresh, attractive and long-lasting!

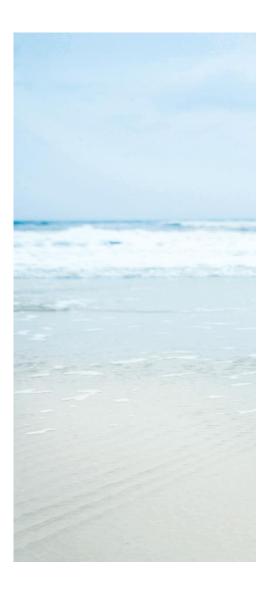
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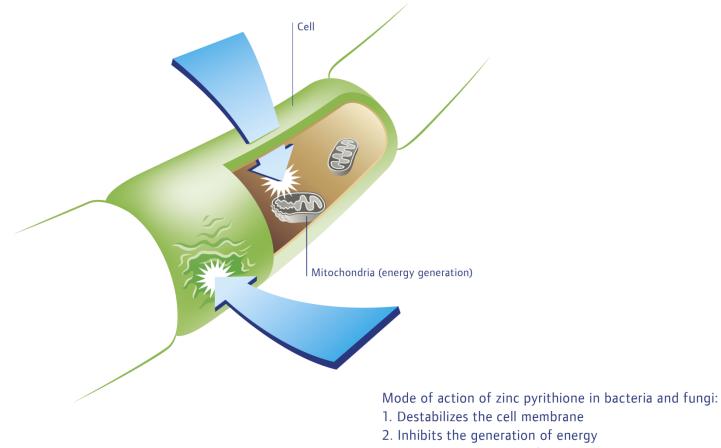
Characteristics of Sanitized® TH 27-24



- Based on Zinc pyrithione (used in a large variety of cosmetic products)
- > Water based white to beige dispersion
- > Slightly anion-active
- > Good temperature stability
- > Limited UV-light stability
- > Ready-to-use product
- > Patent pending for dust mite protection



Illustration Zinc-Pyrithione. Mode of Action



3. Prevents the storage of energy

Protection targets and effects



Hygiene	protection	Material p	protection	Dust mite protection
Gram neg	Gram pos	Micro fungi Mildew algae	Rotting algae	Dust mites / Allergens
	dding, carpets, fur	-		Home Textiles Mattresses, bedding, carpets, furniture,
Technical Te	extiles with FC			
	and sand bags, co ber, upholstery, wa		es, coated	

Rotting max. F4

Application



- > Padding
- > Foaming
- > Coating

Compatibility:

BindersAppretan N 92111FluorocarbonsNuva TTC, Nuva HPUFlame retardantsPekoflam NW liq.,
Pekoflam HSD liq.,
Pekoflam DPN liq. Conc.



Recommended segments

- > Mattress
- > Upholstery
- > Sand bags
- > Construction textiles
- > Garden furniture



Product safety



> Allergy UK

- > OEKO-TEX Standard 100, classes I IV
- > bluesign®
- > EPA registration









Wash fastness

Sanitized[®] TH 27-24 has a reliable wash fastness, if the textile care follows the Sanitized[®] recommendation:

Textile care:

End articles which are treated with Sanitized[®] TH 27-24 should be washed carefully with a pH-neutral wash detergent. e.g. "wool wash detergent"





Positioning of Sanitized® TH 27-24

	Sanitized [®] TH 27-24	Sanitized [®] AM 98-12N	Sanitized [®] AM 21-16	Sanitized [®] TH 26-11
Hygiene function	yes	yes	yes	no
Fungi protection	yes	yes	no	yes
Dust mite protection	yes	yes	yes	no
Rot proof	yes*	no	no	no
EPA-Registration	yes	no	no	no
Allergy UK	yes	no	no	no
Oeko-Tex Standard 100	yes	yes	no	no
bluesign®	yes	no	no	no

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* Together with fluorocarbon treatment

Positioning of Sanitized® TH 27-24

	Sanitized [®] TH 27-24	Sanitized [®] AM 98-12N	Sanitized [®] AM 21-16	Sanitized [®] TH 26-11
Wash fastness	yes	no	yes	no
Influence on water column	weak	weak	weak	no
Compatibility with other chemicals	good	good	good	good



Sanitized[®] TH 27-24

Reference note: (confidential)

The following references should be considered when preparing the recipe to avoid a discoloration of the material:

- > Do not overdose
- > Whenever possible avoid the use of citric acid
- > A high temperature treatment > 150° C should be avoided however, if higher temperatures are necessary this should be tested.
- Application methods not mentioned in the TI (technical information) must be tested previously.



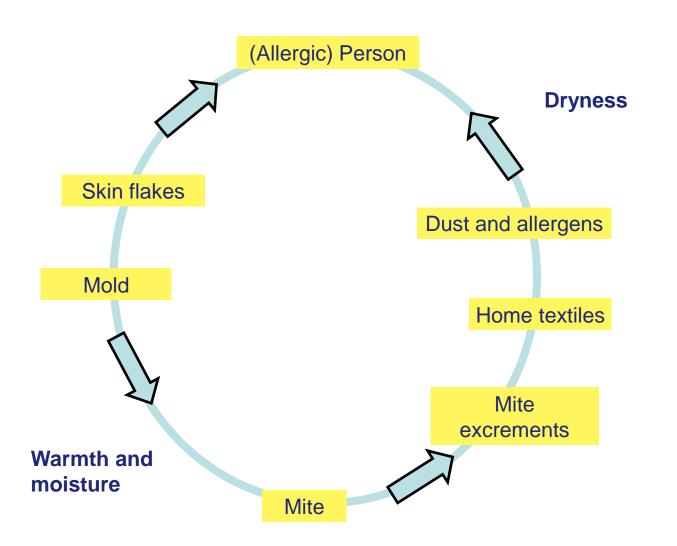
What are house dust mites?



- > 8-legged arachnids
- > Size 0.1 0.5 mm
- (Not visible to the naked eye)
- > 6 development stages
- > Lifespan of approx. 2-4 months
- Females lay up to 150 eggs during their lifecycle
- The ideal living conditions are 15 - 30°C and a relative humidity of 55 - 85 %.
- Feed on human skin flakes and mold fungi
- Excrements contain the allergen (DerPl)



Man and mite – a vicious circle





Mite excrements containing allergens

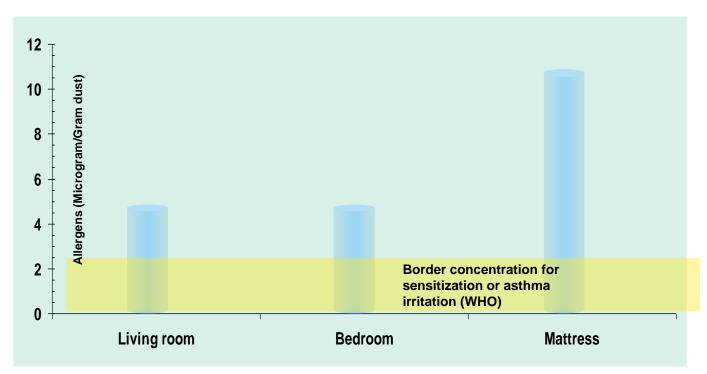
Dust mite excrements on cotton fabric Diameter 10 – 40 micrometer





House dust mites and their allergens

Allergen concentrations in households



Average concentration of dust mite allergens (Der p I) in house dust of 59 households in England 1989.

(R.Sporik et al.; Exposure to house dust mite allergen (Der p I) and the development of asthma in childhood)

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Sanitized

Mattress ticking and wadding treated with Sanitized[®]









Wadding untreated and contaminated



Customer benefits

- > Keeps textiles permanently fresh
- > Prevents microbial development
- > Excellent effect against MRSA
- > Prevents mold stains
- > Prevents algae infestation
- > Rot proof performance
- > Durable (wash fast)
- > Dermatologically safe
- > Save resources, energy, costs



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Special: Construction Industry

Geological and construction textiles



Soil reinforcement



Sand bags

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Substantial benefit in material protection

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Slit renovation at house front / facade

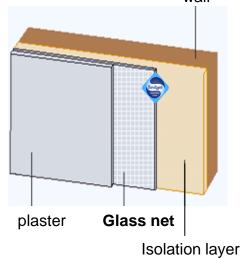






wall





Evaluation of antifungal performance

Glass-net on plaster boards



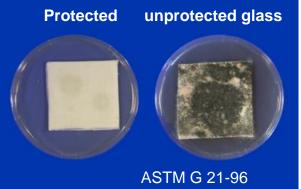


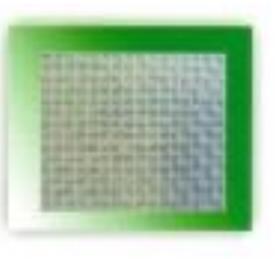
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Enhancing lifetime of materials

Damage caused by water









Renovation

Building up a new carrier system on walls

- Appreciated visual and fashionable effect for private homes wet zones!
- Durable protection against humidity, mildew and fungi spores.
- Protecting physical properties of fibers.
- Washable surface when combined with fitting disperse colors.





Sanitized[®] TH 27-24 Test methods

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Recommended test methods

Bacteria	Fungi	Algae	Mites
SN 195 920 AATCC 147	SAN BIO 12/94 AATCC 30	SAN BIO 33/99	HPLC-analysis
	ASTM G 21-96 (resistance to fungi)		NF G 39-011 (TEC, France)
	EN ISO 11721-1 (soil burial)		





Making decisions as partners.

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