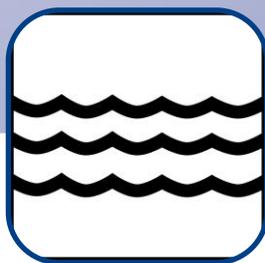


- contains luteolin, coenzyme Q10 and vitamin E as well as skin-related lipids
- absorbed quickly
- without aluminum salts
- without preservatives*
- without mineral oil
- silicone-free
- perfume- and fragrance-free
- HACCP-compliant

*as per annex of the EU Cosmetics Directive



PROTEXSAN[®]

Fragrance-free skin cream with natural protection against free radicals

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PRODUCT PROPERTIES / APPLICATION AREA:

The perfume- and fragrance-free skin cream PROTEXSAN® offers **protection** against **aqueous and water-miscible substances** (e.g. water-miscible oils and cooling lubricants, diluted acids and lyes, alcohol, detergents, disinfectants, salts and cement) as well as **against free radicals**. **Free radicals** emerge in all living cells but also because of factors like UV-radiation, detergents and allergens. Therefore, they are one of the main reasons for **skin cell damages**. According to the latest scientific findings, free radicals contribute to the emergence of **irritant and allergic contact dermatitis** as well.

Radical scavengers (antioxidants) help to prevent these skin damages and to regenerate the skin. If the skin is also stressed occupationally, further help from the outside is desperately needed. The skin protection cream PROTEXSAN® helps by linking the outstanding antioxidant properties of the natural substance **luteolin** with **coenzyme Q10**, **vitamin E** and **skin-related lipids**. PROTEXSAN® provides **durable protection** in case of frequent contact with detergents (soaps and surfactants in cleaning agents). The cream's **outstanding dermatological compatibility** is due to the fact that it is free from fragrances, preservatives*, aluminum salts, dyes, mineral oil and silicone. Moreover, PROTEXSAN® facilitates skin cleansing. The product is HACCP-compliant and can be used safely for personal hygiene in the food industry in consideration of the respective application instructions.

APPLICATION:

Before work, apply PROTEXSAN® evenly on the skin, which previously has been cleaned thoroughly and dried carefully. The amount of cream to use depends on the application surface, e.g. a hazelnut-sized amount of cream for the hands. Apply generously as small amounts offer low protection only. Rub in the cream evenly, paying particular attention to vulnerable areas such as between the fingers and around the nails. After a short drying period, the protective film is active.

In order to maintain the skin protection, the application of PROTEXSAN® should be repeated, especially after washing or exposure to mechanical stress. Principally, PROTEXSAN® should be reapplied every two hours.

Please have a look at the video "Applying Creams":
<https://www.youtube.com/watch?v=TJ-ynm-EPl0&t=6s>



Please note: The application of skin protection agents does not exonerate from the application duty of other prescribed precautionary measures. Skin protection agents do not provide complete protection against harmful workplace substances.

PRODUCT DESCRIPTION:

Light beige, water-resistant, perfume- and fragrance-free cream, without preservatives* and colorants, without silicone and mineral oil.

PRODUCT EVALUATION SHEET:

A product evaluation sheet can be downloaded from
<https://www.physioderm.com/en/downloads/test-sheets?L=0> or is available on request.

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ORDERING DATA:

50 ml Tube:
 PZN: 07121296
 BSW No. 13898001
 12 x 50 ml Tube = 1 PU¹⁾

500 ml Pump Bottle:
 PZN: 10627680
 BSW No. 13898003
 12 x 500 ml Bottle = 1 PU¹⁾

10 ml Tube:
 PZN: 12511585
 BSW No. 13898002
 50 x 10 ml Tube = 1 PU¹⁾

1) PU = packaging unit

DERMATOLOGICAL COMPATIBILITY:

The dermatological compatibility of PROTEXSAN® has been carefully tested and proven. A printed certificate is available.

COATING COMPATIBILITY:

The Fraunhofer Institute for Manufacturing Engineering and Automation confirms the general coating compatibility of PROTEXSAN®.

COMPATIBILITY WITH GLOVES:

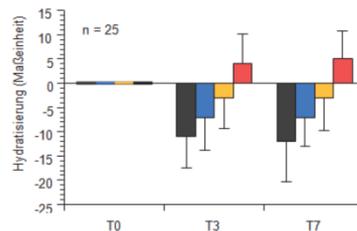
The property changes of latex gloves have been tested according to EN 455-1:2000 and EN 455-2:2009. No changes have been observed after two hours application time. If in doubt, please contact the manufacturer of the gloves.

EFFICIENCY TEST:

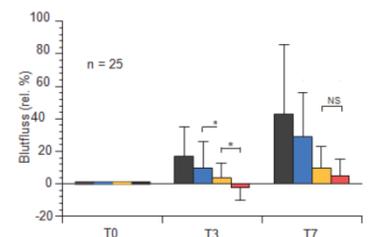
The efficiency of PROTEXSAN® has been proven by a repetitive irritation model (repetitive washing test). In this process, 25 test persons applied the skin protection cream to their forearms three times a day before contact to the noxious agents/washing, during a period of seven days. At the end of this period, the skin moisture (corneometry), the blood flow (laser Doppler flowmetry) and the trans-epidermal water loss (TEWL) were compared to an untreated skin surface. For the model, the water-soluble, anionic surfactant sodium lauryl sulfate (SLS) had been used as noxious agent.

Result: The tested product PROTEXSAN® Skin Protection Cream has a good efficiency against the tested water-soluble noxious agent sodium lauryl sulfate (SLS).

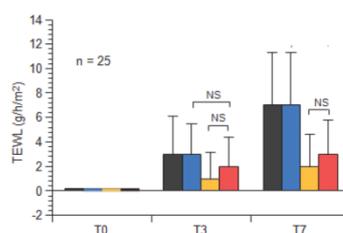
a) Corneometrie



b) Laser-Doppler-Flowmetrie (LDF)



c) Transepidermaler Wasserverlust (TEWL)



Leerwert = unbehandelte Haut
 Vehikel = Lamellare Cremegrundlage
 Referenz = Excipial Protect®
 Verum = lamellare Grundlage mit Luteolin

Abbildung 1: Ergebnisse des repetitiven Waschtests. Instrumentelle Messungen wurden vor der ersten Behandlung (T0), nach 3 Tagen (T3) und nach 7 Tagen (T7) durchgeführt. Die mittleren und Standardabweichungen jeder Gruppe sind abgebildet. (a) Hydratisierung der Hornzellschicht (b) Blutfluss innerhalb der Haut (c) Transepidermaler Wasserverlust (TEWL); NS = nicht signifikant

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OBSERVATIONAL STUDIES:

Observational study of PROTEXSAN® within the scope of a study of the University of Osnabrück (Department of Dermatology, Environmental Medicine and Health Theory)**:

For this purpose, a two- and three-week observational study with 150 employees of the metal-working industry have been conducted, during which the skin-protection cream has been tested monadically under practice-oriented and target-group oriented conditions. The consumer test ended with a written questionnaire. On the basis of the present findings, the skin-protection product PROTEXSAN® qualifies as suitable for sensitive skin. In addition, the product properties regarding galenics (spreadability, texture) have been assessed as especially positive. On the basis of the present results, a **facilitation of skin cleansing** by pre-application of PROTEXSAN® can be stated. **It is remarkable, that almost half of the users with existing skin irritations could report regenerative effects after using the skin protection product PROTEXSAN® during a period of several weeks.**

Study on skin compatibility and acceptance of a neutral skin product (PROTEXSAN®) conducted by the Hautschutzzentrum Berlin**:

20 test persons with moderately-irritative or allergic hand eczema working in wet areas under optimized skin-care conditions and without changes in the therapy regimen applied the protection cream at least 4 times a day, during a period of 5 days mainly during working hours. On the basis of the test results, PROTEXSAN® can be recommended for application on skin showing slight or medium eczematous changes in the area of the hands. On the average, the compatibility has been assessed as very good and the handling/acceptance as good.

** The complete studies with original texts are available from Peter Greven Physiaderm upon request.

PRODUCT QUALITY:

The product is manufactured according to GMP (GOOD MANUFACTURING PRACTICE) requirements. The bacteria count is microbiologically tested on a regular basis and is under 100 bacteria per gram.

FIRST AID:

If PROTEXSAN® accidentally gets into your eyes, rinse immediately with plenty of lukewarm water. If a burning sensation still persists, consult an eye doctor as measure of precaution.

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STORAGE INSTRUCTIONS:

PROTEXSAN® will keep for at least 30 months (from date of manufacture) if stored unopened at room temperature in the original packaging. The Period After Opening (PAO) is indicated on each tube / bottle.

STATUTORY REGULATIONS:

PROTEXSAN® is subject to the EC Cosmetics Directive, but not to the German Chemicals Act or the Hazardous Substances Order. Moreover, skin protection products are received as part of the Personal Protective Equipment (PPE).

ENVIRONMENT:

All tubes and bottles are made of polyethylene and after being completely emptied, they can be disposed of with other polyethylene waste. Packaging is labeled accordingly.

COMPOSITION ACCORDING TO INCI*:

AQUA, CAPRYLIC/CAPRIC TRIGLYCERIDE, GLYCERIN, BUTYROSPERMUM PARKII BUTTER, BEHENYL ALCOHOL, ALCOHOL DENAT., SQUALANE, ORYZA SATIVA BRAN CERA, C12-16 ALCOHOLS, HYDROGENATED LECITHIN, PALMITIC ACID, RESEDA LUTEOLA EXTRACT, TOCOPHEROL, UBIQUINONE, CERAMIDE NP, VP/EICOSENE COPOLYMER, GLYCERYL CAPRYLATE, NYLON-6, ACRYLATES/VINYL ISODECANOATE CROSSPOLYMER, DEHYDROXANTHAN GUM, SODIUM CARBOMER, SODIUM ANISATE, SODIUM LEVULINATE, CITRIC ACID

* (International Nomenclature Cosmetic Ingredients)

Our information and recommendations correspond to our current state of experience. They are not binding and do neither imply any warranty nor do they establish a contractual relationship. We reserve the right of modifications in line with technological progress and further development of our products. We request our customers to conduct their own tests on our products for fitness for purpose.