Skin Protection - before work
Varying working materials



ESD-tested
skin protection cream

Physioderm®
DUALIN® / DUALIN® PURE

Skin protection cream with dualistic effect in case of skin exposure to not clearly defined or varying, water-soluble or water-insoluble substances.

- white, slightly greasy oil-in-water (O/W) emulsion
- ESD-compatible
- with waxes and special film-forming substances
- absorbed quickly
- without mineral oil and parabens
- silicone-free
- pH-neutral
- perfumed or perfume- and fragrance-free
- HACCP-compliant (DUALIN® PURE)

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PGP

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perfumed fragrance-free

PRODUCT PROPERTIES

- white, slightly greasy O/W emulsion
- ESD-compatible
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- perfumed or perfume- and fragrance-free
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USE UNDER ESD CONDITIONS

DUALIN® is ESD-compatible. The skin protection cream has been proven to have virtually no effect on electrostatic charge dissipation at ESD workstations, as it does not form an insulating protective film. DUALIN® helps regulate skin moisture without impairing the body's ability to dissipate electrostatic charge (e.g. when using grounding wrist straps). The product has been independently tested.

DESCRIPTION

DUALIN® protects the skin against water-insoluble substances as well as against water-soluble substances. The cream's dualistic effect is the reason why DUALIN® can be used at workplaces with varying working materials. In combination with sunflower germ oil (high oleic variant) and shea butter, the skin-friendly main active agent stearin forms a water-repellent film on the skin. Wax pigments strengthen this protective layer and a special gel film-forming agent supports the effect against water-insoluble working materials. The skin's natural functions are not affected by the protective film.
DUALIN® is a slightly-greasy and quickly-absorbed cream. Due to its high dermatological compatibility, DUALIN® is also suitable for facial application. DUALIN® PURE (perfume- and fragrance-free version) 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 DUALIN® 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 only offer low protection.
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 DUALIN® should be repeated, especially after washing or exposure to mechanical stress. Principally, DUALIN® should be reapplied every two hours.

A product evaluation sheet can be downloaded.

To the downloads and videos:
www.pgp-hautschutz.de/en/downloads/product-application

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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.

DERMATOLOGICAL COMPATIBILITY
The dermatological compatibility of DUALIN® 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 DUALIN®.

SEPARATING STRENGTH OF RUBBER
The German Institute for Rubber Technology confirms in a test report that DUALIN® has no influence on the separating strength of rubber.

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.

STATUTORY REGULATIONS
DUALIN® is subject to the Regulation (EC) No 1223/2009 on Cosmetic Products, but not to the CLP or the REACH Regulation. Moreover, skin care products are received as part of the Personal Protective Equipment (PPE).

FIRST AID
If DUALIN® 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.

ENVIRONMENT
All tubes and bottles are made of polyethylene and after being completely emptied, they can be disposed of with other polyethylene waste. The empty packaging should be disposed of in a container specially designed for recycling. Packaging is labelled accordingly.
The tubes (excl. lid) consist of at least 30 % recycled plastic. The 1 L collapsible bottles, incl. dispenser pump and label, have been granted the Interzero “Made for Recycling” label.
Using the product in the correct amounts minimizes the environmental impact and saves money.

STORAGE INSTRUCTIONS
DUALIN® 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.

EFFICIENCY
The efficiency of DUALIN® has been proven by a repetitive irritation model.

In this process, 20 test persons applied the skin protection cream to their forearms (amount: approx. 2 mg/cm²) twice a day before contact to the noxious agents, during a period of five days. At the end of this period, the degree of redness (chromametry) and the trans-epidermal water loss (TEWL) were compared to an untreated skin surface. For the model, the mineral cutting oil 21 (Metall BG, Mainz) and the water-soluble cooling lubricant 23 (Metall BG, Mainz) had been used as noxious agents.

Result: The tested skin protection cream DUALIN® has a very good effeciency against the tested noxious agents cutting oil and cooling lubricant (water-insoluble and water soluble models of noxious agents).

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CHARTS ON EFFICIENCY

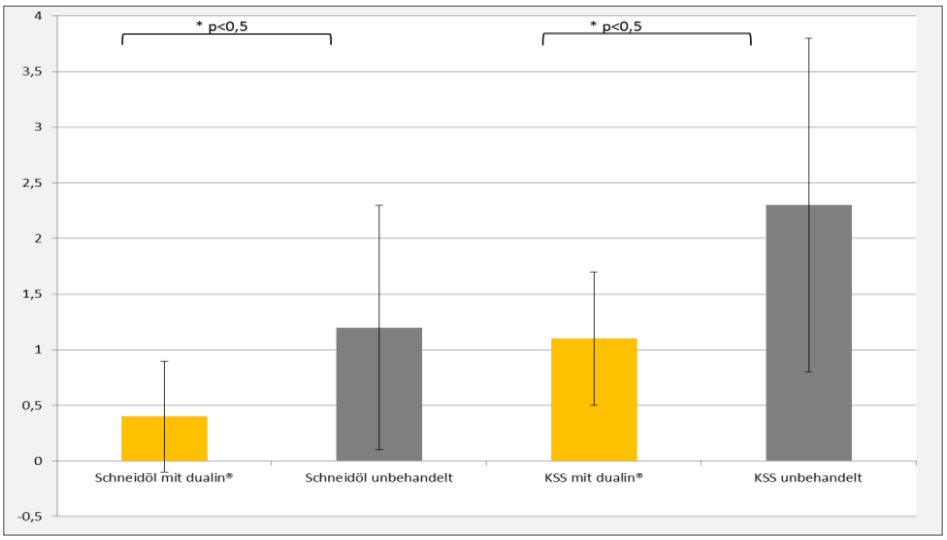


Chart 1: Measuring of the trans-epidermal water loss as a marker for the damage to the epidermal barrier (n=20). The trans-epidermal water loss of the skin was significantly reduced by application of DUALIN® with regard to the model noxious agents.

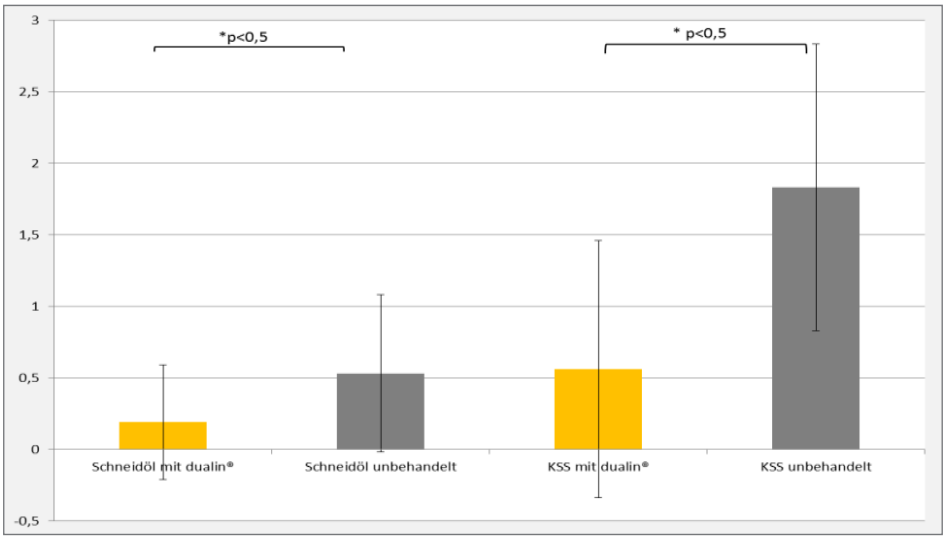


Chart 2: Measuring of the degree of redness (n=20). The redness of the skin was significantly reduced by application of DUALIN® with regard to the model noxious agents cutting oil and cooling lubricant.

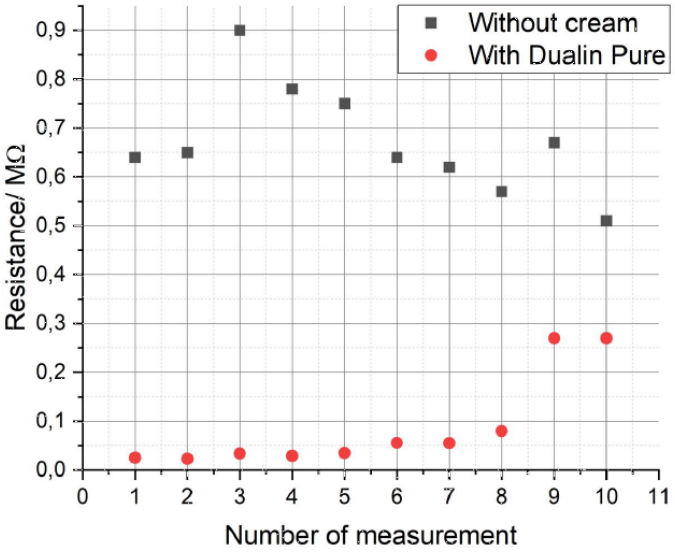
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VERIFICATION OF ESD COMPLIANCE

The following setup was developed to measure the contact resistance of the skin ESD wrist strap system: Two ESD wrist straps are worn on the arm at a fixed distance from each other and the resistance is measured using a precise current-voltage source. First, measurements were taken in a “dry“ state without the use of moisturizer. Ten measurements were always taken. The skin was then moisturized, the ESD wrist straps were repositioned in the same places, and the resistance was measured again 10 times.

Result:
In “dry“ state: Surface resistance of the wrist strap - skin - wrist strap system between 0.5 und 0.9 MΩ. After applying DUALIN®: Surface resistance is reduced and remains at a low level (even after an hour). The testing was carried out independently.



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SUITABLE DISPENSING SYSTEMS



We recommend:

Art. No. 14393001
VARIOMAT PRO STANDARD
Plastic Dispenser for 1 L
and 2 L Collapsible Bottles
also available in black

For further compatible dispensers, please refer to:
https://www.pgp-hautschutz.de/en/our-brands/all-brands/dispensing-systems

HALAL AND KOSHER REQUIREMENTS

To the best of our knowledge, the ingredients of DUALIN® comply with halal and kosher requirements.

INGREDIENTS

AQUA, C12-15 ALKYL BENZOATE, ISOPROPYL PALMITATE, ZINC STEARATE, MYRISTYL MYRISTATE, CETEARYL ALCOHOL, CETEARYL GLUCOSIDE, C12-18 ACID TRIGLYCERIDE, SHOREA STENOPTERA SEED BUTTER, CERA ALBA, METHYL HYDROXYETHYLCELLULOSE, PHENOXYETHANOL, CHONDRUS CRISPUS POWDER, HELIANTHUS ANNUUS HYBRID OIL, STEARIC ACID, PALMITIC ACID, BUTYROSPERMUM PARKII BUTTER, CITRIC ACID, SODIUM BENZOATE, ETHYLHEXYLGLYCERIN, TOCOPHERYL ACETATE, (PARFUM).

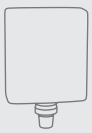
perfumed



100 ml tube
Art. No. 14023001
12 pieces



1 L collapsible bottle
Art. No. 14023002
6 pieces



1 L Neptune bottle
Art. No. 14023003
6 pieces

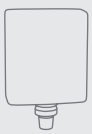
fragrance-free



100 ml tube
Art. No. 14024001
12 pieces



1 L collapsible bottle
Art. No. 14024002
6 pieces



1 L Neptune bottle
Art. No. 14024004
6 pieces

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. Version: 07/2026

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