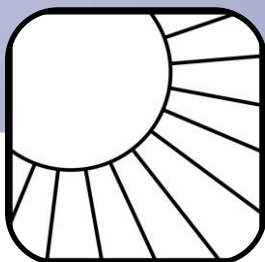


- high protection with SPF 50
- UVA protection factor 26 UVA
- with vitamin E
- optimal handling, no rubbing necessary, also suitable for hairy sections of the skin
- bottle can be used upside down for reaching sections of the skin which are not easily accessible
- moisturizing
- water-resistant
- fragrance-free
- free from greases



PHYSIO UV 50 SPRAY

Water-resistant, transparent sun spray with immediate protection against high natural UV radiation in case of outdoor work

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PRODUCT PROPERTIES / APPLICATION AREA:

PHYSIO UV 50 SPRAY is a water-resistant and fragrance-free sun spray with high SPF 50 for immediate protection against natural UV-radiation. The UVA protection factor is 26.

Since PHYSIO UV 50 SPRAY has a pump that can be used upside down, the transparent liquid can be applied extensively and effortlessly – even to sections of the skin which are not easily accessible, such as the back. Due to its non-greasy formulation, PHYSIO UV 50 SPRAY is especially suitable for protecting large and hairy sections of the skin.

The high and consistent protection is achieved by a modern and photostable UV filter system, which protects the skin from the entire harmful UV range very effectively.

PHYSIO UV 50 SPRAY is suitable for outdoor work places with medium to very high natural UV-radiation.

The moisturizing formulation can contribute to cellular protection against oxygen radicals which evolve under UV light. PHYSIO UV 50 SPRAY reduces premature skin aging caused by sunlight.

APPLICATION:

Shake well before use. Before skin exposure to UV radiation, spray evenly on the skin from a distance of approx. 20-30 cm. Rub in, if necessary. Apply amply, small amounts reduce protection considerably.

Apply several times in order to maintain the sunscreen, especially when sweating.

Avoid intensive midday sun and extensive sun exposure. Wear protective clothing and use sunscreens with a high SPF (SPF > 25). Even sunscreens with a high SFP do not provide complete protection against UV radiation. Even when using sun protection agents, avoid staying in the sun for a long time. Sunburn causes lasting skin damages and is to be avoided! Excessive sunbathing is a serious health hazard!

AVOID CONTACT WITH TEXTILES TO PREVENT PERMANENT STAINING. Do not spray directly into the face or the eyes. Do not expose the bottle to direct sunlight and heat. **FLAMMABLE** – contains alcohol.

PRODUCT DESCRIPTION:

Transparent, water-resistant spray, fragrance-free, non-greasy formulation, is absorbed quickly.

TEST SUMMARY:

A test summary is available on request.

DERMATOLOGICAL COMPATIBILITY:

PHYSIO UV 50 SPRAY's dermatological compatibility has been carefully tested and proven. A printed certificate is available.

PHYSIO UV 50 SPRAY

Water-resistant, transparent sun spray with immediate protection against high natural UV-radiation in case of outdoor work

EFFICIENCY TEST:

PHYSIO UV 50 SPRAY's efficiency has been proven with regard to:

1. UVB protection factor according to international norm EN ISO 24444:2010 [1]
2. UVA protection factor according to ISO 24443 [2]
3. Water resistance according to COLIPA method 2005 of the EU cosmetics manufacturers [3]

1. UVB protection factor and sunburn prevention

The UVB protection factor mainly avoids the occurrence of sunburn caused by sun exposure and was formerly the only quality criterion of sunscreens. **The average UVB protection factor evaluated for PHYSIO UV 50 SPRAY during the in vivo SPF test is 57,9.**

2. UVA protection factor against skin aging and light allergies

The UVA protection factor has to be at least 1/3 of the product's protection factor. UVA radiation is a main factor with regard to premature skin aging and different forms of so called „sun allergies“. The wavelength of the sun's UV spectrum is 200 - 400 nm. The ozone layer protects from natural UVC radiation (200 nm - 290 nm). The UVB spectrum is 290 - 320 nm, the UVA spectrum is 320 - 400 nm. Modern sun protection agents cover even a wider UV range and especially the UVA protection factor becomes more and more important. **The UVA protection factor (UVAPF) evaluated for PHYSIO UV 50 SPRAY is 26,63. Thus, the UVA-UVB ratio is 0,5326 and the product clearly fulfils the requirements for balanced sunscreen products (UVA-UVB ratio > 0,33).**

3. Water resistance

The water resistance according to the European industry standard COLIPA is evaluated by a realistic and controlled bathing test (twice, 20 minutes each). After bathing, the SPF needs to be at least 50% and, thus, maintain sufficient protection in case of e.g. intensive sweating or bathing (see chart 2). **For PHYSIO UV 50 SPRAY an average of 73,7 % has been evaluated.**

Nevertheless, PHYSIO UV 50 SPRAY should be reapplied especially after bathing or heavy sweating in order to increase the sun-protection safety.

UVA evaluation by ISO 24443 method;

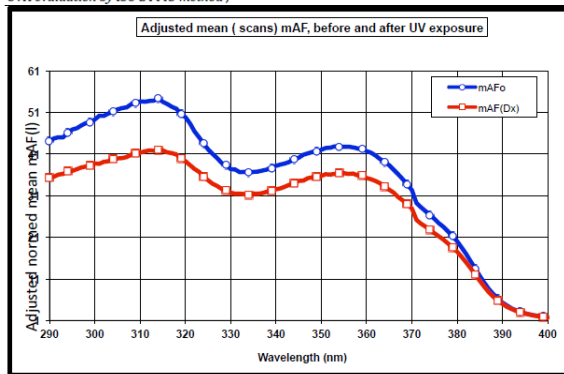


Chart 1 Protection range against UV radiation evaluated for PHYSIO UV 50 SPRAY

	Mean Value				Recommended Claim <small>according to EU Commission Recommendation 2005</small>		
	SPF		Water Resistance	WRR	SPF	Protection Class	Water Resistance
	static	wet	[%]	[%]			
Test Product	57.9	42.9	73.7	67	50	High Protection	Yes
Standard P2	17.0				Within accepted Limits		

Chart 2 Water-resistance test according to COLIPA

References / Norms:

1. EN ISO 24444:2010 Cosmetics - Sun protection test methods - In vivo determination of the sun protection factor (SPF)
2. DIN EN ISO 24443:2013-05: In vitro Bestimmung des UVA-Schutzes von Sonnenschutzmitteln (ISO 24443:2012); Deutsche Fassung EN ISO 24443:2012
3. COLIPA Guidelines for Evaluating Sun Product Water Resistance - 2005

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ORDERING DATA:

200 ml Pump-Spray Bottle:
BSW No. 14055001
12 x 200 ml Bottle = 1 PU¹⁾

1) PU = packaging unit

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 PHYSIO UV 50 SPRAY 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.

STORAGE INSTRUCTIONS:

PHYSIO UV 50 SPRAY 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.

STATUTORY REGULATIONS:

PHYSIO UV 50 SPRAY 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:

Bottles are made of PET and after being completely emptied, they can be disposed of with other PET waste. Packaging is labeled accordingly.

COMPOSITION ACCORDING TO INCI*:

ALCOHOL DENAT., C12-15 ALKYL BENZOATE, OCTOCRYLENE, ETHYLHEXYL SALICYLATE, BUTYL METHOXYDIBENZOYLMETHANE, ISOPROPYL PALMITATE, GLYCERIN, ETHYLHEXYL TRIAZONE, DIETHYLHEXYL BUTAMIDO TRIAZONE, PHENYLBENZIMIDAZOLE SULFONIC ACID, DIETHYLAMINO HYDROXYBENZOYL HEXYL BENZOATE, ACRYLATES/OCTYLACRYLAMIDE COPOLYMER, BIS-ETHYLHEXYLOXYPHENOL METHOXYPHENYL TRIAZINE, AMINOMETHYL PROPANOL, PANTHENOL, TOCOPHERYL ACETATE, AQUA

* (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.