

Medical skin care

Protection, cleansing and care
for staff and patients



the plus of pure
performance

➤ Protect health where
it is most important.

More than a century of competence in preservation and hygiene ...



1889 |

Foundation of the company by Rudolf Schülke & Julius Mayr in Hamburg.
Presentation of the first ever branded disinfectant in the world – lysol®



1892 |

Successful combating of the Hamburg
cholera epidemic with lysol®

Our greatest plus – expertise in hygiene.

schülke -+

For more than 115 years our thoughts and actions have been geared towards only one thing: hygiene.

We are a company specialising in chemicals and pharmaceuticals. Our products and services safeguard people and materials against infections and contamination, where prevention is particularly important. It is far easier to prevent an infection than to combat it.

Our clients value our reliability. After focussing on pathogens and the hazards they present for over 115 years, we can safely say that we have hygiene expertise in our genes. We have developed countless new methods and products. We find the right solution to every microbiological challenge.

In our search for the best possible solution we always concentrate on partnership. Why? Because our expertise in matters of hygiene can only flourish in combination with our clients' competence and understanding of the market. No matter whether in hospital or in an industrial setting, dangerous pathogens lie in wait everywhere. We see it as our task to know all the dangers of infection and contamination, and to offer our partners the optimum solution for preventing and combating them, every time.



We show initiative. As specialists in the field of hygiene we always have to be a little ahead of the times. We have set ourselves the target of being able to offer practicable solutions as soon as new challenges appear. Not only in disinfection, but also in skin care. We have developed a skin care programme for the healthcare sector which suits everybody's needs and is outstandingly effective: the esemtan® and sensiva® product lines. Because patients and staff don't only need good medical care, they must feel comfortable in their own skin as well.

Page Contents

2	schülke – Hygiene expertise
4	The skin: anatomy and function
7	Areas of application and products
8	esemtan® – skin care range

Page Contents

12	sensiva® – skin care range
16	Elucidation of cosmetic active ingredients
18	Ingredients and functions
19	Literature/environmental information



1913 |
Market launch of sagrotan®, the world's first household disinfectant.

1920 |
Introduction of a disinfectant to combat tuberculosis pathogens

1950 |
Introduction of an antiviral disinfectant



1975 |
gigasept® – the first HBV-effective disinfectant

The skin

The most ingenious packaging for life
– tough and highly sensitive at the same time.

With an area of about two square meters, skin is the largest organ of the human body. It is not only the outer covering, which holds the body together, but also fulfills a very large number of tasks – it performs protective functions as well as contact functions. Our skin is active in every situation in life.

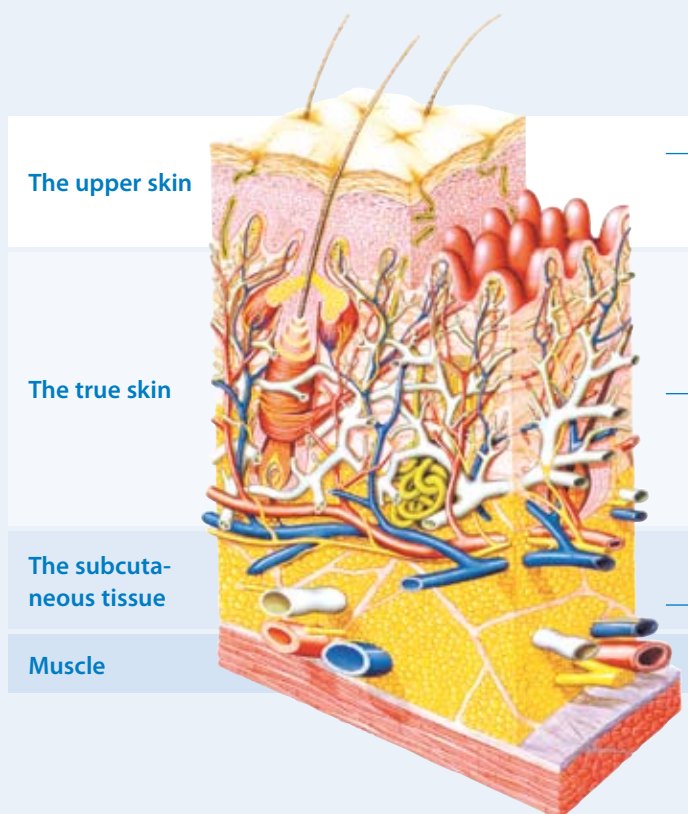
It protects us from mechanical (pressure, impact, friction), physico-chemical (influence of chemical substances, penetration of micro-organisms) and thermal effects (cold, heat, irradiation). It reacts to heat and cold, expands or contracts. The pores open and close as required. The hairs

are bristled by millions of small “muscles”; billions of very fine nerves react as sensing organs and notice everything which comes too close to them.

In addition, our skin is an important storage organ for fat, carbohydrates, water and salts. It excretes metabolites. Vitamin D synthesis occurs in the skin and many substances are converted.

All of these are based on the ingenious co-operation of the three layers which make up our skin: the subcutaneous tissue (subcutis), the true skin (corium) and the upper skin (epidermis).

The structure of skin



The upper skin (epidermis)

is a constantly renewing tissue with several cell layers – the germ layer, the prickle cell layer, the granular cell layer and the horny layer. In the lowest cell layer, new cells are formed constantly, which, in a constant cycle of about four weeks, are finally shed from the horny layer as horny cells. In this way, the upper skin performs the most important protective function against chemical and physical attack.

The true skin (corium)

consists of collagens and elastic connective tissue fibres. Here the so-called “cutaneous appendages” such as hair and sebaceous and sweat glands are found. Blood and lymphatic vessels provide for temperature and metabolism; millions of nerve and muscle fibres, which feel and react, end here. The true skin is responsible for the firmness and resilience of skin to mechanical influences.

The subcutaneous tissue (subcutis)

is the layer which connects to the deeper-lying muscle and organ tissues and consists of loose connective tissue in which the fat cells are embedded. The subcutis protects our organs from pressure and impact. The fat store serves as a heat reservoir and store for nutrient reserves.

More than a century of competence in preservation and hygiene ...



1980 | kodan® – skin-friendly antiseptic for use, for example, before injections



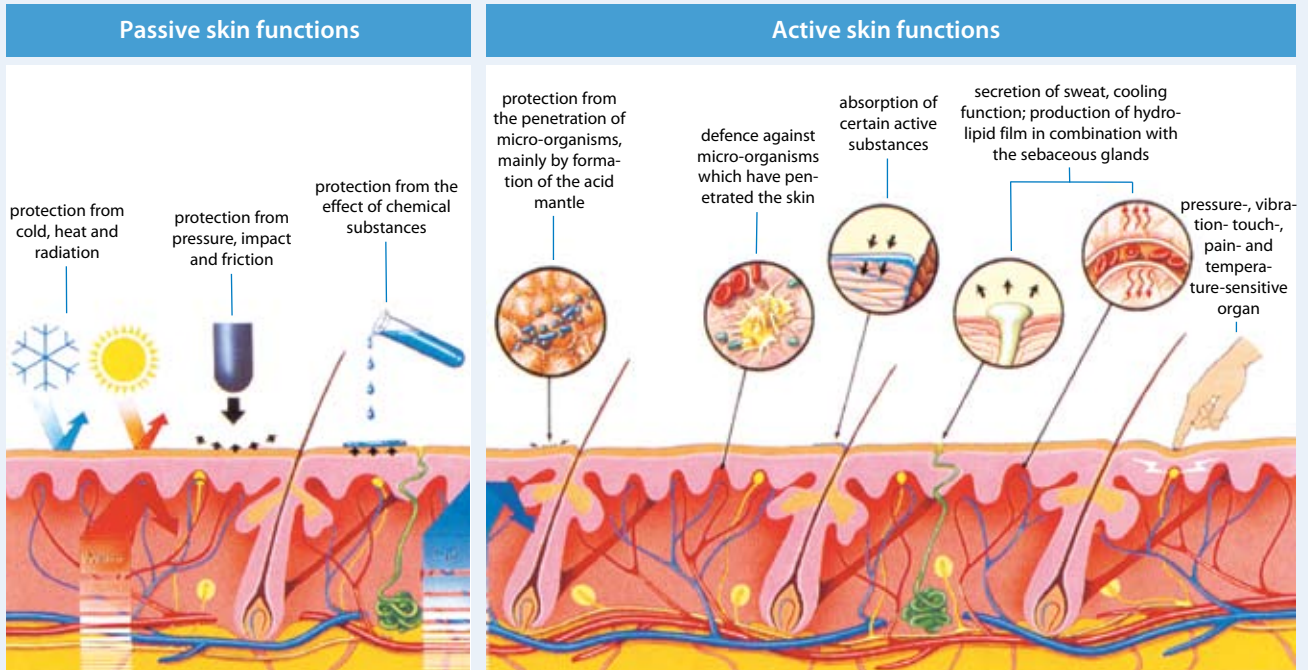
1981 | Starting shot for mikroqid® – today the market’s leading rapid disinfectant in the field of medicine

1985 | S & M disinfectant against HBV/HIV



1986 | Introduction of aldehyde-free disinfectants, e.g. terralin® and lysetol® AF

Functions of skin



The three layers – an ideal team ...

... whose unimaginably versatile merits we take for granted. We feel completely comfortable in our skin. "Mirror of the soul" – our skin also carries this name rightly, because problems with the largest organ in man, interfere understandably with the whole zest for life.

Indeed, the skin is able to resist harmful attacks well on the basis of its own ability – but only to a certain extent. Anyone who carries out daily activities which are stressful to skin must assist the natural protective functions and thus contribute to keeping the skin healthy.

There are many reasons for protecting skin

Skin is not only stressed through work. Constantly increasing environmental stresses can also cause many different skin problems.

The essential goal of skin protection/care measures is the maintenance – or, if damage has already occurred – the re-establishment of an efficient horny layer function.

Primarily, it is essential to prevent occupational skin diseases at their onset.

Skin protection is essential!

Measures for the reduction of occupational skin diseases have increased in importance during the past years. This is because of the constant increase in skin diseases over the last ten years – usually eczema – which are ranked first in the list of notified occupational diseases.

Skin protection is an essential part of occupational health and safety at work – in connection with occupational skin diseases, skin protection usually means protection of the hands.



1990 | Introduction of octenisept®, a mucous membrane and wound antiseptic



1991/92 | Introduction of aldehyde-free disinfectants, e. g. terralin and lysetol® AF



1996 | Schülke & Mayr GmbH becomes a subsidiary of the Air Liquide Group

Attack is the best defence!

If external or even internal influences cause problems, i.e. an excessively strong stress occurs and excessive demands are made on the skin's own regeneration mechanism, our skin reacts noticeably. It itches and becomes rough, flaky or even cracked. Skin diseases develop – here 90% concern eczema – inflammatory non-infectious diseases of the epidermis and upper dermis.

The avoidance of the onset of such eczema (cumulative sub-toxic contact eczema) and thus the prevention of allergic contact eczema which frequently follows on from this, are the task and the goal of a systematic skin protection.

Three factors are important for avoiding occupational skin diseases:

- special skin protection / wearing of gloves (preparative)
- targeted and gentle skin cleaning
- effective skin care (reparative)

Each of these components is of equal importance for the optimal protection of your skin.

Professional skin protection has been a core topic for schülke for many decades.

When your hands are highly stressed, they must be protected because an optimal integrated co-ordinated skin protection and care system is an indispensable part of everyday work. A particular role played in this, is also the protection from allergies to perfumes and colours, in which the contact allergies, especially to perfumes, have doubled since 1979. When the classification according to allergy potential is considered, the following is obtained:

In the case of contact allergies, healing is not often possible, but only a reduction of symptoms.

Therefore an avoidance of perfumed products is the best prophylaxis for people allergic to perfume. Unfortunately, the respective substances cannot be identified from the labels as in most cases individual substances are not named, but described across-the-board as "perfume" or "aroma", so that the identification of an allergy is very time consuming and cost-intensive.

The same applies to colours; here it is often the so-called azo colour (e.g. tartrazine E 102) which activate frequent incompatibility reactions and thus can lead to intensification of skin eczema, asthma or even anaphylactic shock.

The consistent use of a specially developed skin protection and care system maintains and improves the condition of the skin.

Skin protection

- before and during skin-stressing activities: procedures which prevent contact between harmful substances and skin, e.g. barrier creams, protective gloves

There are protective skin products in the form of ointments, creams, gels, sprays, powders and protective gloves. A skin-protection product which can be used universally does not exist. The most important requirement is to establish which harmful substance the skin is to be protected against. In addition, knowledge of the mode of action is essential for the choice.

Cleansing of the skin

- mild, gentle cleansing of the hands, adapted to the type of soiling
- gentle hand drying

Skin-cleansing products should be chosen according to the skin contamination occurring at work. In doing so, it is important that highly active agents are not grabbed hastily and that the product is used sparingly.












Skin care

- before beginning work
- after skin-stressing activities
- after finishing work

In general, skin-care products should be simple O/W or W/O emulsions. During the day and/or before starting work, low-fatting products are usually recommended while it is advised that stronger fattening products are used after finishing work.



Areas of use and products

Area	Indication	Product	Benefit
Skin protection	protects and maintains the moisture in normal and combination skin	 esemtan® hand emulsion	<ul style="list-style-type: none"> • Oil-in-water emulsion • rapidly absorbed • protects and cares for skin • does not reduce disinfectant action
		 sensiva® protective emulsion	
Hand washing, body cleansing and care	general personal hygiene (hand washing, whole body washing, showering incl. hair)	 esemtan® wash lotion	<ul style="list-style-type: none"> • active cleaning, soap-free • maintains the natural acid mantle of skin • protects the skin from drying out and irritation by means of refatting substances and allantoin
		 sensiva® wash lotion	
	care bath for very dry, itchy or scaly skin	 esemtan® bath oil	<ul style="list-style-type: none"> • keeps the skin smooth and elastic • cleans and cares at the same time, reduces itchiness • based on natural soya oils
	gentle, thorough odour-neutralising cleaning of skin (e.g. in diarrhoea or incontinence)	 esemtan® cleansing foam	<ul style="list-style-type: none"> • effective, quick and gentle skin cleaning • neutralises odours immediately • antimicrobial • skin-conditioning, refatting
Skin care	preservation of intact skin in dry skin condition	 esemtan® body lotion	<ul style="list-style-type: none"> • moisturizing water-in-oil emulsion (W/O) • protects against drying out • regenerates dry skin
		 sensiva® care emulsion	
	maintenance of moisture in normal and combination skin	 esemtan® skin balm	<ul style="list-style-type: none"> • Oil-in-water emulsion (O/W) • cares for and stabilizes the skin • rapidly absorbed
Special skin care	protection and promotion of the regeneration of raw and extremely stressed skin (incontinence, aggressive bodily fluids, frequent washing)	 sensiva® regeneration cream	<ul style="list-style-type: none"> • protects and regenerates highly stressed skin • also applicable to weeping skin • stabilizes the moisture content of skin and prevents its drying out • contains panthenol and bisabolol • does not contain zinc components
Invigorating rubbing in, supportive e.g. in pneumonia prophylaxis	blood-circulation-energising, invigorating and skin-gentle embrocation	 esemtan® active gel	<ul style="list-style-type: none"> • invigorating by means of essential oils • gentle on skin, skin-neutral • relaxes the musculature • gives a pleasant feeling of freshness and invigoration



2006 | Surface cleaning and disinfection with a single wipe – the new product terralin® makes it possible

schülke →

2007 | Also for the future the aim is: growth and competence throughout the world ... schülke, your partner for preservation and hygiene in the 21st century

A close-up photograph of several bright yellow flowers, likely plumerias, with large, overlapping petals. The lighting is soft and natural, highlighting the texture and color of the petals. The background is slightly blurred, focusing attention on the foreground flowers.

➤ The skin care products
with the wellness factor.



esemtan®

For use on patients and for staff.
esemtan® with freshness and fragrance.

Personal care is a basic requirement for every person and also for every age.

**The idea for esemtan® developed thus:
Well-being through skin care**

esemtan® is a consistent skin-care range for medical personal hygiene. It takes into consideration the requirements of the care specialists just as it does those of the physicians and the hygienists.

It assists the enhancement of a sense of being alive and a feeling of well-being.

The feeling of being cared for makes a large contribution to the psychological well-being of each individual person.

The older the person, the more challenging is the skin and, in addition, the greater the importance of a targeted personal hygiene.

Newborns, children, people dependent on care and the strongly changing age pyramid in Germany and Europe, account for a large potential in terms of people expecting consultation in the area of personal hygiene.

Because: The goal of care is the maintenance and assurance of the state of health or – in illness – the improvement of the state of health.

Preventive measures serve for the maintenance of a healthy skin condition.

For use on patients and for staff.
esemtan® containing freshness and fragrance.



esemtan® wash lotion

Soap-free wash lotion based on special skin-mild surfactants and nature-identical active and care components

Our plus

- allantoin protects the skin against drying out and irritation
- maintains the acid mantle of the skin
- suitable for all skin types



esemtan® skin balm

Oil-in-water emulsion for general daily skin and hand care

Our plus

- the fat and moisture requirements of the skin are regulated and stabilized
- absorbed deeply into the skin
- also suitable for whole-body care



esemtan® body lotion

Water-in-oil emulsion for care and regeneration of dry, stressed skin

Our plus

- moisturising water-in-oil emulsion
- regenerates dry skin
- containing an active component that is nature-identical to that of lime-tree blossom



esemtan® hand emulsion

Oil-in-water emulsion for protection and care of at-risk hands

➔ Our plus:

- rapidly absorbed
- contains allantoin and bisabolol
- does not affect disinfectant action e.g. in hand disinfection
- pleasant fragrance thanks to discrete perfuming



esemtan® bath oil

For the care of sensitive, at-risk and dry skin during washing and bathing

➔ Our plus:

- keeps the skin smooth and elastic
- based on natural soya oil
- alleviates itching



esemtan® active gel

For circulation-enhancing, invigorating and skin-gentle embrocations

➔ Our plus:

- refreshing and invigorating through its essential oils
- for curative massage in muscle tenseness, heavy legs, etc.
- targeted and economically applicable



esemtan® cleansing foam

For effective, rapid and gentle cleansing of the skin of incontinent patients

➔ Our plus:

- for convenient cleansing and care of soiled skin, e.g. of the bed-ridden and incontinent
- no impairment of skin respiration
- micro-organism-reducing, neutralizes odours immediately
- discrete perfume oil lends a fresh fragrance

[Contents:](#) A summary and statement of the contents can be found in page 18.



► Uncompromising
cleanliness.
Risk-free skin care.

sensiva® without colours and perfume. For staff and patients.

Perfumes and colours – why introduce unnecessary risk factors into your daily work?

Because especially the hands of medical personnel are highly stressed, they must be particularly protected.

Only an optimal integrated co-ordinated skin protection and care system, brings the necessary protection in everyday work.

In particular, the protection from allergies to perfumes and colours be emphasized. Studies show that contact allergies, in particular to colours and perfumes, have doubled since 1979.

Colours and perfumes – risk factors for your skin!

With sensiva® products we provide you with a special skin-care range without colours and perfumes for medical hand and body care.

In addition to the esemtan® range, all sensiva® products take into consideration the requirements of the care specialists just as much as they do those of the physicians and the hygienists.

sensiva®



Washing and care – colour- and perfume-free.
For staff and patients.



sensiva® wash lotion

Colour- and perfume-free product for hand washing, showering and bathing

Our plus

- Syndet – based on skin-compatible surfactant
- gentle on skin, good cleaning, pH-neutral to skin
- before / after hygienic and surgical hand disinfection
- low allergy potential



sensiva® protective emulsion

Colour- and perfume-free Oil-in-water emulsion

Our plus

- for skin-protection and -care, moisturizing, very rapidly absorbed
- low allergy potential
- for protection from water-insoluble substances



sensiva® care emulsion

Colour- and perfume-free care emulsion

► Our plus

- water-in-oil based
- for rich care of damaged and dry skin
- does not reduce the action of hand disinfectants
- also suitable for whole-body care
- low allergy potential



sensiva® regeneration cream

Colour- and perfume-free regeneration cream

► Our plus

- easily distributed ambiphilic cream
- protects from irritated states
- promotes wound healing
- can also be applied to weeping skin
- low allergy potential

Additional information

Explanations regarding cosmetic active ingredients*



The comfrey plant contains allantoin. Allantoin acts by accelerating cell growth, cell reproduction and cell regeneration and calms the skin. It also promotes healing of stubborn wounds.

A large number of active materials from all possible substance classes are available in cosmetology today. All of these substances have at least a physical effect. A prerequisite is that these substances must, in most cases, penetrate the skin, which is difficult because the skin is primarily a protective organ. It is desirable that other substances remain on the surface of the skin (e.g. targeted occlusive action, skin protection).

One of the most important "active systems" is the product base. On the one hand it can deploy an effect directly, e.g. hydrating, while on the other hand it determines, as carrier medium, the interactions between skin and active ingredient. Whether an active ingredient has a positive effect or little effect is, in many cases, determined by the base (bioavailability). Even a deactivation is conceivable. On the other hand, active-ingredient-free bases have an effect as well.

But also a formulation applied to the skin is on no account absorbed unchanged.

Only certain constituents can penetrate more deeply (due to mixing with sebum and sweat, by "breaking" an emulsion and by chemical-physical reactions in the horny layer).

Egbert Charlet, *Cosmetics for pharmacists*,
Wissenschaftliche Verlagsgesellschaft mbH, Stuttgart, 1989

From the diversity of cosmetic active ingredients, the substances used in *esemtan*[®] and *sensiva*[®] products are described in pages 17 and 18.

Thereby, the effectivity of the complete formulation cannot be unconditionally inferred from the effectivity of a single substance. On the one hand, this is certainly dependent on the concentration that is used for each and, on the other hand, on the properties of the respective base and thus its bioavailability.

* Definition "Cosmetic active ingredient" (Umbach, 1985)

"Substance in cosmetic preparations with physical, physicochemical, chemical, biochemical and / or subject-based action under conditions of use, for, among other things, the influencing of physiology and / or function of skin and / or mucous membranes and their adnexa as well as the teeth with as large an exclusion of a systemic effect on the organism as possible."

Cosmetic active substances in esemtan® and sensiva® products

Active ingredient	Function	Advantage for the user	Product
Allantoin	wound healing and skin protecting	protection of skin from irritated states	esemtan® wash lotion esemtan® hand emulsion sensiva® protective emulsion
Bisabolol	anti-inflammatory	protection of skin from irritated states	esemtan® hand emulsion sensiva® protective emulsion sensiva® regeneration cream
Eucalyptus globulus (Eucalyptus oil)	deodorising, cooling	relaxation of the musculature, pleasant feeling of freshness and stimulation	esemtan® active gel
Farnesol	deodorising	promotion of a feeling of well-being	esemtan® body lotion sensiva® care emulsion
Urea	moisturising agent, reducing itchiness	stabilization of skin moisture, promotion of a feeling of well-being	esemtan® skin balm
Camphor	circulation-enhancing, cooling	relaxation of the musculature, pleasant feeling of freshness and stimulation	esemtan® active gel
Menthol	reducing itchiness, antiseptic	relaxation of the musculature, pleasant feeling of freshness and stimulation	esemtan® active gel
Panthenol	acceleration of skin regeneration, irritant alleviating, promoting wound healing, very good moisture-retaining ability	alleviation of skin irritation	sensiva® regeneration cream
Thymus vulgaris (Thyme oil)	antiseptic	microbial stabilisation	esemtan® active gel
Juniperus communis (Juniper berry oil)	circulation-enhancing	relaxation of the musculature, pleasant feeling of freshness and stimulation	esemtan® active gel

Ingredients acc. INCI

esemtan® wash lotion

• Aqua • Sodium Laureth Sulfate • Sodium Chloride • Lauryl Glucoside • Glycol Distearate • Stearamide MEA • Cocamide DEA • Allantoin • Parfum • Phenoxyethanol • Benzoic Acid • Dehydroacetic Acid • Ethylhexylglycerin • Polyaminopropyl, Biguanide • C.I. 42090 • C.I. 47005
Perfume constituents: Benzyl salicylate • hexyl cinnamal

esemtan® hand emulsion

• Aqua • Polyglyceryl-2-PEG-4 Stearate • PEG-5 Stearylstearate • Dimethicone • Isopropyl Myristate • Sorbitol • Trilaureth-4 Phosphate • Benzyl Alcohol • Methylchloroisothiazolinone • Methylisothiazolinone • Perfume • Allantoin • Bisabolol
Perfume constituents: Alpha-Isomethyl Ionone, Benzyl Salicylate, Citronellol, Geraniol, Hexyl Cinnamal, Hydroxycitronellal, Hydroxyisohexyl 3-Cyclohexene Carboaldehyde, Butylphenyl Methylpropional, Linalool

esemtan® skin balm

• Aqua • Paraffinum Liquidum • Cetearyl Alcohol • Propylene Glycol • Urea • Ceteareth-6 • Stearyl Alcohol • Ceteareth-25 • Perfume • Phenoxyethanol • Methylparaben • Butylparaben • Ethylparaben • Propylparaben • Isobutylparaben
Perfume constituents: Alpha-Isomethyl Ionone, Benzyl Benzoate, Butylphenyl Methylpropional, Citronellol, Geraniol, Hexyl Cinnamal, Hydroxy-citronellal, Limonene, Linalool

esemtan® body lotion

• Aqua • Paraffinum Liquidum • Propylene Glycol • Caprylic/Capric Triglyceride • PEG-7 Hydrogenated Castor Oil • Glyceryl Sorbitan Oleostearate • Magnesium Sulfate • Perfume • Farnesol • Formic Acid • Iodopropnyl Butylcarbamate • Polyaminopropyl Biguanide
Perfume constituents: Alpha-Isomethyl Ionone, Butylphenyl Methylpropional, Citral, Citronellol, Coumarin, Geraniol, Hexyl Cinnamal, Limonen, Linalool

esemtan® bath oil

• Glycine Soja • PEG-40 Sorbitan Peroleate • PEG-40 Sorbitol Hexaoleate • Perfume • Tocopherol
Perfume constituents: Benzyl Salicylate, Citral, Hexyl Cinnamal, Hydroxyisohexyl 3-Cyclohexene Carboaldehyde, Limonene, Linalool

esemtan® active gel

• Aqua • Alcohol • Eucalyptus Globulus • Polyacrylic Acid • Camphor • Menthol • Thymus Vulgaris • Juniperus Communis • Sodium Hydroxide

esemtan® cleansing foam

• Aqua • Paraffinum Liquidum • Isobutane • Cocamidopropyl Betaine • Isopropyl Palmitate • Cocamide DEA • Caprylic/Capric Triglyceride • Propane • Parfum • Benzyl Alcohol • Phenetyl Alcohol • Butane
Perfume constituents: Butylphenyl Methylpropional, Citral, Geraniol, Hexyl Cinnamal, Hydroxycitronellal, Limonen, Linalool

sensiva® wash lotion

• Aqua • Sodium Laureth Sulfate • Sodium Chloride • Lauryl Glucoside • Allantoin • Phenoxyethanol • Benzoic Acid • Dehydroacetic Acid • Ethylhexylglycerin • Polyaminopropyl Biguanide

sensiva® protective emulsion

• Aqua • Polyglyceryl-2-PEG-4 Stearate • PEG-5 Stearylstearate • Dimethicone • Isopropyl Myristate • Sorbitol • Trilaureth-4 Phosphate • Benzyl Alcohol • Methylchloroisothiazolinone • Methylisothiazolinone • Allantoin • Bisabolol

sensiva® care emulsion

• Aqua • Paraffinum Liquidum • Propylene Glycol • Caprylic/Capric Triglyceride • PEG-7 Hydrogenated Castor Oil • Glyceryl Sorbitan Oleostearate • Polyaminopropyl Biguanide • Formic Acid • Iodopropnyl Butylcarbamate • Magnesium Sulfate • Farnesol

sensiva® regeneration cream

• Petrolatum • Aqua • Panthenol • PEG-60 Sorbitan Stearate • Cetearyl Alcohol • Paraffinum Liquidum • Glyceryl Stearate • Caprylic/Capric Triglyceride • Propylene Glycol • Bisabolol • Sorbic Acid

Ingredients / function

Aqua	water
Benzyl Alcohol	preservative
Formic acid	preservative
Caprylic / Capric Triglyceride	cream base
Cetearyl Alcohol	emulsifier / consistency provider
Cetearyl Isononanoate	cream base
Dicaprylyl Ether	cream base
Dimethicone	skin protector
Disodium Laureth Sulfosuccinate	anionic surfactant
Glycerin / Glycerol	moisturiser
Glyceryl Sorbitan Oleostearate	emulsifier
Glyceryl Stearate	emulsifier
Hexyl Laurate	cream base
Iodopropnyl Butylcarbamate	preservative
Isopropyl Myristate	cream base
Laureth-3	solubiliser
Magnesium Lauryl Sulfate	anionic surfactant
Magnesium Sulfate	stabiliser
Methylchloroisothiazolinone	preservative
Methyldibromo Glutaronitrile	preservative
Methylisothiazolinone	preservative
Paraffinum Liquidum	cream base
PEG-5 Stearylstearate	emulsifier / consistency provider
PEG-7 Glyceryl Cocoate	refatting agent
PEG-7 Hydrogenated Castor Oil	emulsifier
PEG-60 Sorbitan Stearate	emulsifier
Petrolatum	cream base
Phenoxyethanol	preservative
Polyglyceryl-2-PEG-4-Stearate	emulsifier
Polyglyceryl-3 Diisostearate	emulsifier
Polyaminopropyl Biguanide	preservative
Propylene Glycol	moisturiser
Sodium Chloride	thickener
Sodium Laureth Sulfate	anionic surfactant
Sorbic Acid	preservative
Sorbitol	moisturiser
1-Tetradecanol	refatting agent
mid-chain Triglyceride	refatting agent
Trilaureth-4 Phosphate	emulsifier
Zinc Stearate	stabiliser

Literature / reports

Skin diseases and skin protection

Series of the BAGUV in collaboration with the BGW, edition 1993

Rules for the use of skin protectors

ZH 1/708, HVGB, edition April 1994

ASI - Arbeitssicherheits-Information (industrial safety information), BGN

Edition 8.60 / 96

Expert report on the skin compatibility of sensiva® washlotion, sensiva® protective emulsion, sensiva® care emulsion and sensiva® regeneration cream,
Priv.-Doz. Dr. med. A. Schnuch, Universitäts-Hautklinik, Göttingen, 15.05.2002

Study of the influence of skin care with sensiva® protective emulsion on the effectiveness of hand disinfection with desderman® / desmanol®
Study of the influence of skin care with sensiva® care emulsion on the effectiveness of hand disinfection with desderman®

Dr. P. Goroncy-Bermes, schülke Research and Development, Norderstedt, 28.02.2003

Application and field reports on the esemtan® program for medical patient care

schülke, November 1989 – L5.20

Expert report on the skin compatibility of esemtan® skin-wash lotion, skin-care bath oil, vital bath, cleansing and care foam, care lotion and crème base

H. Ippen, Göttingen, 26.10.1992 – L5.24

Composition of care products of a care series

R. Berscheid, schülke, Norderstedt 1994, AT-direct H 95-3 – L5.25

Environmental information

schülke has a validated environmental management system in accordance with eco-audit-regulation (Reg.-Nr. DE-S-150 00003).

Packaging information

esemtan® / sensiva® products are available in bottles and canisters.

The bottles and canisters are made of polyethylene (HDPE) or PET (esement® mouth fresh) and are labeled accordingly. The closures are made of PP (except for 5 ltr canister: PE). The labels are made of PP. Thus, a separation into individual-material groups allows for optimal recycling.

The disposable containers carry the green dot and should be sent to the dual system after emptying completely for professional sorting and recycling.

Behaviour in wastewater:

The behaviour of cosmetic products, which enter into wastewater after use, is determined essentially by the criteria sewage sludge compatibility and biodegradability.

Sewage sludge compatibility

according to the OECD guideline 209, the EC₅₀ value describes the concentration at which inhibition of the respiration rate of the sewage sludge is 50 %. An EC₅₀ value of more than 200 mg/litre is to be expected for schülke cosmetic products. The products should normally not affect the correct functioning of a sewage-treatment plant.

Biodegradability

The cosmetic products, which enter into waste water after use, are biodegradable. That is to be inferred from corresponding raw-material information or test results for the finished product.

Labelling in accordance with the Dangerous Substances Directive.

No labelling in accordance with the Dangerous Substances Directive is required for medical-cosmetic products.

Further information

If you still have further questions about our products or would like more detailed information please consult our product and use advice service (PAB):

Phone +49-(0)40 - 521 00 - 666 | Fax: +49 - (0) 40 - 521 00 - 660
pab@schuelke.com



schülke worldwide:

Austria

Schülke & Mayr Ges.m.b.H.
1070 Vienna
Phone +43-1-523 25 01 0
Fax +43-1-523 25 01 60

China

Schülke & Mayr GmbH
Shanghai Representative Office
Shanghai 200041
Phone +86-21-62 17 29 95
Fax +86-21-62 17 29 97

France

S & M France
75341 Paris Cedex 07
Phone +33-1-44 11 00 81
Fax +33-1-44 11 02 41

Germany

Schülke & Mayr GmbH
22840 Norderstedt
Phone +49-40-521 00 0
Fax +49-40-521 00 318

Italy

Schülke & Mayr Italia S.r.l.
20148 Milano
Phone +39-02-40 21 820
Fax +39-02-40 21 829

Malaysia

Schülke & Mayr (Asia) Sdn Bhd
46000 Petaling Jaya, Selangor
Phone +60-3-77 83 56 98
Fax +60-3-77 84 79 31

Netherlands

Schülke & Mayr Benelux B.V.
2003 LM-Haarlem
Phone +31-23-535 26 34
Fax +31-23-536 79 70

Poland

Schülke Polska Sp.z.o.o.
01-793 Warszawa
Phone +48-22-659 81 71
Fax +48-22-568 22 02

Singapore

Schülke & Mayr (Asia) Pte. Ltd.
Singapore 768767
Phone +65-62-57 23 88
Fax +65-62-57 93 88

Switzerland

Schülke & Mayr AG
8003 Zurich
Phone +41-44-466 55 44
Fax +41-44-466 55 33

United Kingdom

Schülke & Mayr UK Ltd.
Sheffield S9 1AT
Phone +44-114-254 35 00
Fax +44-114-254 35 01

... plus our international distributors

Schülke & Mayr GmbH
22840 Norderstedt | Germany
Phone | Fax +49-40 52100-0 | -318
www.schuelke.com

A company of the
Air Liquide Group

