Cutilyth® intensive
Cutilyth® sensitive
Solutions and Gels for Care of Wounds, Skin Diseases, Mucosal Diseases

- Wound irrigation
- Wound cleansing
- Wound moistening
- Prophylaxis
Cutilyth Products

Cutilyth intensive and Cutilyth sensitive Solutions are wound irrigation solutions for cleansing and moistening and moisture of wounds and wound dressings, particularly chronic wounds.

Cutilyth intensive Gel and Cutilyth sensitive Gel are used for moisture and cleansing of acute and chronic wounds as well as supportive treatment of skin diseases.

Even in problematic cases, such as MRSA- or Pseudomonas-populated wounds / ambient skin, Cutilyth Solutions contribute to wound cleansing.

Furthermore Cutilyth sensitive Solution and Cutilyth sensitive Gel are suitable as irrigation solution and gel for externally accessible mucous membranes respectively body orifices.

The Cutilyth products are suitable for external application of topical skin ulcersations and wound healing disorders. The range of application covers cleansing and supportive treatment of dirty, infection exposed or infected chronic and acute wounds (e.g. traumatic or surgical wounds). By using Cutilyth products physiological wound healing processes can be stabilized and supported.

Cutilyth intensive is used for affections of the skin (at the start of therapy, for chronic and micobially contaminated wounds and for intact ambient skin), Cutilyth sensitive specifically for mucous membrane areas (mouth and throat, bladder, vagina, anal region) and for sensitive patients.

Cutilyth® intensive and Cutilyth® sensitive

From distilled water and highly pure salt the solutions are produced by means of the Steralyth-Technology, using an electro-chemical process (diaphragm-electrolysis). The solutions contribute to the cleansing of wounds and the promotion of wound healing.

The Steralyth-Technology is a quality assured advancement and optimization of diaphragm-electrolysis for application in the medical field.

Cutilyth® intensive and Cutilyth® sensitive are certified as medical devices class II b in accordance with EC Directive 93/42/EEC Annex II.

Due to their composition the products feature reliable preservation. Therefore the addition of chemical preservatives is omitted.

According to available laboratory tests and an abundance of clinical experiences Cutilyth Solutions are:

- fast-acting
- biologically safe
- non toxic
- painless in application
- alleviating itching
- analgetic
- promoting healing
- versatile
- easy to use

The biological safety of Cutilyth intensive and Cutilyth sensitive has been examined in the context of a component analysis and tests for in vitro cytotoxicity, irritation and sensitization as well as pyrogenicity. As a result of the tests the Cutilyth products have been classified as well biocompatible and toxicologically safe.

Besides reactive oxygen species the products also contain different chlorine compounds, and possess a high oxidation-reduction potential.

All body cells, in particular specific defense cells, are producing a large number of chemically similar, partially identical substances (ROS) every day.

For that reason healthy structures / cells possess sophisticated, intrinsic physiological protective mechanisms towards redox processes and are not affected by the Cutilyth products.

The gels contain the same active substances, but are odorless and neutral in taste.

The slight chlorine smell of the irrigation solutions is a quality feature and an indicator for their activity.

Please note: as with all chlorous products the chlorine smell can cause undesirable adverse effects for users with correlative disposition (allergic persons, asthmatics).
Application

Areas of Application

- Support of wound hygiene and wound healing
  - acute and chronic wounds, surgical wounds
  - Ulcus cruris (ven., art., mixtum)
  - diabetic food syndrome
  - decubitus
  - burns

- Irrigation of externally accessible mucous membranes
  - stomatitis
  - aphthae
  - dental post-surgery interventions
  - parodontitis
  - sore throat
  - bladder irrigation

- Adjuvant treatment of skin diseases
  - eczema
  - erysipelas
  - allergic dermatitis
  - intertrigo
  - insect bites

- Prevention
  - foot care for diabetics
  - athletes (athlete's foot, fungi)

Wound care with Cutilyth intensive and Cutilyth sensitive

Cutilyth intensive and Cutilyth sensitive have a cleansing effect with a wide spectrum of applications, and are suited for supportive treatment and cleansing of superficial or deep skin lesions, surgical wounds, injuries including inflammatory processes.

A moist wound condition is important for wound healing. On dry wounds this is achieved by additionally applying Cutilyth Gels.

Application for skin diseases

Cutilyth Solutions as well as Cutilyth Gels are able to support the healing process of skin diseases.

Irrigation of externally accessible mucous membranes with Cutilyth sensitive

For application on mucous membranes – e.g. stomatitis and sore throat, bladder infections – Cutilyth sensitive, for topical application Cutilyth sensitive Gel is used.

Methods of Application

Irrigation of wounds / cleansing / moisture

In order to achieve the full effect, sufficient moistening and, where applicable, re-moistening during the exposure time is very important.

At first the wound is irrigated and cleansed. Subsequently moist wound treatment is applied.

The application is implemented within the regular wound management.

Basic principle for treatment with Cutilyth products:
- wounds in the cleansing phase / infected wounds:
  intensive cleansing and moistening: 1-2 x daily.
- wounds in the granulation / epithelization phase:
  irrigation with Cutilyth Solution and / or gel application with every change of dressing.

Irrigation of mucous membranes

The irrigation of mucous membranes should be performed several times daily, e.g. mouth wash 3 x daily or more often if required, bladder irrigation 2 x daily (80 ml).

Application of gel

Applying the gel: with every change of dressing resp. once or several times daily (skin diseases).

Please pay attention to the respective instructions for use.

Application Information

Concentration / dilution

Cutilyth intensive and Cutilyth sensitive Solutions are supplied as ready for use solutions.

For special applications (e.g. baths) it is possible to supply Cutilyth intensive concentrate and Cutilyth sensitive concentrate, which then has to be diluted to a maximum concentration of 30% - the most common concentration for application.

For specific applications - like for prevention - a lower concentration can be applied.

For dilution normal tap water (drinking water quality), sterile-filtered tap water, Aqua destillata or water for injection is used.

The gels are ready for use products.

Shelf-life

Due to the electro-chemical manufacturing process the shelf-life of Cutilyth Solutions is limited.

Cutilyth intensive: 6 weeks / Cutilyth sensitive: 12 weeks after production. The same shelf-life applies for the gels. The products are optimally effective during this period of time.

The shelf-life is not affected by opening the package or short-term warming of the quantity required to body temperature.
Anamnesis

- 79-year-old patient with decubitus stage 3 (according to NPUAP), present since 6 months.
- Diabetes mellitus, Parkinson’s disease, hypertension, coronary heart disease, bed-ridden since 3 years.
- Initial findings (see image 1): smearable coated, heavily exudative, fistulating ulcer with strongly inflamed surrounding; periphery partly necrotic. Previous wound treatment in accordance with modern standards without success.

Treatment

- The wound has been irrigated with Cutilyth intensive Solution 1 x per day. Separating necrotic tissue and coatings have been carefully removed (but no surgical debridement has been performed).
- For wound covering sterile compresses, soaked in Cutilyth intensive Solution, have been used. Fixation with medical dressing film.

Course of Treatment

- Findings after 10 weeks (see image 2): wound bed free of coatings and granulating; progressive epithelization. Wound edge and surroundings clear of inflammation.
- Findings after 4 months (see image 3): distinct reduction of ulcer size and depth. Wound bed still clean, healthy granulation tissue; stable, significantly progressive epithelization.
- Findings after 6 months (see image 4): decubitus healed. Very subtle scarring. Rapid cleansing and instating granulation with subsequent stable epithelization under treatment with Cutilyth intensive. Alltogether outstanding wound healing despite poor basic conditions.
The well coordinated interaction of wound healing processes can be disturbed by a multiplicity of causes, e.g. diabetes mellitus, blood circulation disorders, malnutrition, irradiation and uncontrollable germ colonization.

Cutilyth products support the physiological wound healing processes by the following factors:

- **Effective wound cleansing**
- **Decontamination / infection protection**
- **Milieu shaping (pH-value)**
- **Reduction of inflammation**
- **Reduction of odor**
- **Support of wound physiology**

**Decontamination**

Besides the particular oxidation-reduction potentials Cutilyth Solutions contain a high number of various ROS (reactive oxygen species) such as oxygen ions, hydroxide ions, chlorine dioxide and hypochlorous acid. The interaction of different, highly reactive oxidants leaves no chance for microorganisms. Cutilyth Solutions are effective in decontamination against a wide spectrum of microorganisms such as:

- **Pseudomonas**
- **Staphylococcus**
- **Methicillin-resistant Staphylococcus (MRSA)**
- **Streptococcus**
- **Legionella**
- **Coliform germs**
- **Salmonella**
- **Candida albicans**

**Milieu shaping**

Cutilyth intensive Solution and Cutilyth intensive Gel are supporting the formation of a sour wound milieu. A low pH-value in the wound contributes to the inhibition of germ growth and can improve the oxygen supply of the tissue considerably. 1, 2 Thus the transformation of the wound to a sour milieu with Cutilyth intensive may constitute a major goal of treatment.

**References:**
Our Company Philosophy

The idea emerged from the commitment of the initiators in developing and emerging countries in Africa, the Middle East, Eastern Europe and Asia. The often indescribably bad hygienic conditions in hospitals and homes there constitute the most difficult problem. This requires new strategies and concepts, which meanwhile have been developed to market maturity with the Cutilyth-Technology approved in Europe.

We are glad, that the experiences from there now lead to a medical device, which can even help many people in industrial countries.

We feel especially associated with the people in the developing countries. Therefore we shape our offer in a way allowing us to get involved in medical projects in these countries. What improves life and alleviates suffering over here, will save many lives over there.

Your TGC-Team

We would be glad to send you additional information brochures, specific application guidelines and instructions for use.

TransGlobal Commodities
Nelkenstrasse 150
85716 Unterschleissheim
Germany
Fon +49 89 200 33 80
www.tgc.international

We would be glad to answer your questions, also with regard to specific applications.

BSN medical
Quickbornstrasse 24
20253 Hamburg
www.bsnmedical.de
Tel. +49 40 / 49 09-45 45
Fax +49 40 / 49 09-66 66