



# ActiMaris®

 Natural Health Care

skin  
mucous membrane  
wounds

EN

Simple and natural wound healing  
based on bio-physical principles.





## Medical products for support and promoting wound healing



### Product profile – ActiMaris®

In ActiMaris® products, the cleaning power, as well as the tissue decongestion and germ reduction, can be attributed both to the individual ingredients and to the interaction of all the ingredients. The ionized sea water, the reactive oxygen species (ROS) and the high pH value contribute to the effect of physical cleaning and decontamination.

#### For modern wound treatment

- pain-free
- no side-effects
- pure, natural product
- reduces the risk of reinfection

All constituents are based on natural and bio-physical ingredients.

### Ionized sea water & Reactive oxygen species (ROS)



100% natural

ActiMaris® ingredients are all of natural origin and not synthetically-chemically produced. Only on a purely bio-physical basis.



ROS

The Reactive Oxygen Species have antimicrobial properties and are part of the cellular REDOX-System.



Sea-salt

Thanks to the ionized seawater, a depth effect is achieved. Acts as a natural preservative and reduces germs.



Basic pH

Supports the alkaline cell environment and for an optimal regulation of all phases of the wound healing processes.

## Reactive oxygen species (ROS)

The human body possesses more microorganisms than cells; these are called human microbiomes. In order to keep these microorganisms balanced, the body's defence system forms leukocytes (immuno-cytes). The neutrophil granulocytes and macrophages produce reactive oxygen species (ROS) that can oxidise undesirable microorganisms and thereby have a strong decontaminating effect. The reactive oxygen species act as regulators of immune reactions and as signal molecules, but must be kept in balance by the REDOX system.

The reactive oxygen species create an environment that is hostile to germs. Thus, they have a natural preservative and germ-reducing effect.

## Alcaline pH value

In chemistry, the hydrogen ion concentration is identified by the pH value. Acids have a high concentration of H<sup>+</sup> ions and have an oxidising effect. Basic substances, on the other hand, have a high proportion of OH<sup>-</sup> ions and have a reducing effect. This is why basic substances are also antioxidants (such as peroxidases, which catalyse the reduction of peroxides), i.e. they counteract oxidation and through chemical neutralisation they render harmless the increased concentration of free radicals, such as oxygen superoxide.

As a result, ActiMaris® products "incorporate" a natural REDOX system (electrochemical potential). It is also known that the enzymes, signal molecules, neurotransmitters and growth factors, which are important for the individual wound healing phases, can optimally exert their effects in an alkaline environment (especially in the phase of epithelialisation).

## 1,2 – 3,0% Sea salt

Because the concentration of sea salt exceeds the physiological value of 0.9%, a hyperosmolar and thus a decongestant effect takes place in the tissue of the wound and for an effective biofilm reduction. This reduces wound pain and improves local circulation. The ionized sea water achieves a deep effect because the H<sub>2</sub>O clusters in ionized water are smaller and so they can penetrate deeper into the tissue. On top of this, simple sea salt has germ-reducing properties.



## ActiMaris® Wound Gel for skin, mucous membranes and wounds



### Composition

Aqua purificata, lithium-magnesium-sodium-silicate, sal maris, sodium oxychlorite

ActiMaris® Wound Gel is used to moisten wound fillers or the wound bed and can be combined with modern wound care products. Retains moisture in the wound, with broad antimicrobial, antifungal and odour-reducing properties. Can be used in combination with for example alginates like a standard wound gel. Can also be used repeatedly in acute, chronic and inflammatory processes of the mucous membrane and skin without causing any tissue irritation.

### Item number

30220  
30250

### Pack sizes

20 g  
50 g

ActiMaris® forte –  
Wound Irrigation Solution for the skin,  
mucous membranes and wounds



Depending on the thickness and strength of the fibrin coatings, microbial colonisation, maceration of the wound edges or irritation, the wet phase should be adjusted to the appropriate stage, e.g. fibrin-covered, foul-smelling wounds heavily colonised by germs – 5-10 minutes contact. Stable wound environment, clean wound bed with no microbial abnormality – 5 minutes contact. Now apply ActiMaris® Wound Gel and bandage with sterile gauze. Can be repeated several times a day and over an extended period of time.

**Composition**

Aqua purificata, sal maris, sodium oxychlorite

Item number	Pack sizes
30350	300 ml
31050	1000 ml

ActiMaris® sensitive –  
Wound Irrigation Solution for the skin,  
mucous membranes and wounds



Depending on the thickness and strength of the fibrin coatings, microbial colonisation, maceration of the wound edges or irritation, the wet phase should be adjusted to the appropriate stage, e.g. fibrin-covered, foul-smelling wounds heavily colonised by germs – 15-20 minutes contact. Stable wound environment, clean wound bed with no microbial abnormality – 5-10 minutes contact. Now apply ActiMaris® Wound Gel and bandage with sterile gauze. Can be repeated several times a day and over an extended period of time.

**Composition**

Aqua purificata, sal maris, sodium oxychlorite

Item number	Pack sizes
30300	300 ml
31000	1000 ml

# ActiMaris® Tissue repair – based on natural and bio-physical principles.

## Field of application

- Acute wounds
- Postoperative wounds
- Chronic wounds
- 1st to 3rd degree burns
- Foul-smelling wounds
- Infected wounds
- Whole body decontamination when MRSA/VRE
- Irritated skin and mucous membranes
- Inflammatory processes of skin and mucous membranes
- Can be used by children, pregnant and lactating women

## Product properties

- Long period of use after opening
- Various fields of application
- Good cell- and tissue compatibility
- No irritation of eyes, mouth or skin
- Supports wound healing process
- Very compatible with many products used for traditional and modern wound treatment
- Very good bioavailability and biocompatibility
- Regulates and optimizes the wound environment

## Composition

Aqua purificata, sal maris, sodium oxychlorite

## Medical product class 2b



### Band saw injury (partial amputation of 3rd + 4th finger)

Once a day, the fingers were immersed gently in ActiMaris® *sensitive* Wound Irrigation Solution for 20 minutes. Afterwards, ActiMaris® Wound Gel was applied twice daily for 45 days.



### Ulcus Cruris Venosum

After for weeks of local treatment with ActiMaris® *sensitive* Wound Irrigation Solution and ActiMaris® Wound Gel, complete wound healing and skin epithelisation.



### Tongue base carcinoma

1 year after local treatment with ActiMaris® *forte* Wound Irrigation Solution and ActiMaris® Wound Gel: Tumour ulcer healed, No throat irritation, no scarring.



### Diabetic foot ulcer

6 days after treatment with ActiMaris® *sensitive* Wound Irrigation Solution and ActiMaris® Wound Gel complete epithelisation can be observed.

For further information  
please visit our website  
**[www.ActiMaris.com](http://www.ActiMaris.com)**

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**Development and production:**


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