


Product
News

AM SCIENTIFICS

BULLETIN



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JUC™

**Invisible Physical
Antimicrobial Dressing**

The Invisible Physical Antimicrobial Dressing: JUC™

How would you like a wound dressing that is any size, any shape and has the following properties:

- Is Invisible
- Safe
- Physical antimicrobial
- Molecular Dressing
- Devoid of the problems of resistance associated with antibacterial agents
- Can also act on other pathogenic micro-organisms?

We have pleasure announcing the introduction of our newest product in wound and skin care: The **Invisible Physical Antimicrobial Dressing: JUC™**

What is JUC™?

JUC™ is a physical antimicrobial spray dressing. Upon application of JUC™, a positively charged film is formed which isolates and kills pathogenic micro-organisms including bacteria, fungi and viruses. This electrostatic physical action avoids the problem of antibiotic drug resistance.

Safety:

Compared to the toxicity and side effects of certain antibacterial agents, JUC™ offers a breakthrough having no recognised toxicity nor side effects. By adopting a physical antimicrobial formula, JUC™ is non-irritant to the skin's surface, and mucous membranes, harmless to the healthy human tissue cells as well as being non-toxic to the human body after being ingested.

Long-acting Antimicrobial:

As compared to the transient bactericidal action of disinfectants, JUC™'s unique method of antimicrobial release has a duration of over 8 hours.

Long acting:

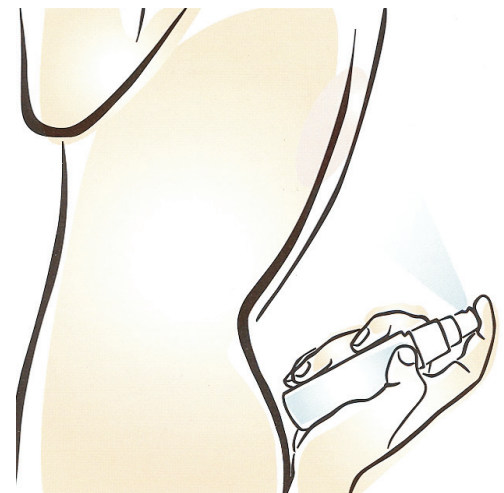
- 1 Treated areas of skin will benefit from antimicrobial protection for more than 8 hours;

- 1 Articles and fabrics treated with JUC™ will benefit from antimicrobial protection for up to 40 wash cycles.

Broad Spectrum:

As compared to antibacterial agents which are only effective on bacteria, JUC™ extends its method of action to all pathogenic micro-organisms including viruses and fungi.

As compared to the traditional dressings and mechanical fixing, JUC™ acts through forming a coverage by molecular reticulate film. Since JUC™ is sprayed on there is no need for specially designed shaped bandage for each particular body part. With JUC™ you will always have the "right" sized dressing.



Physical Antimicrobial Mechanism:

JUC™ forms a positively charged film on the skin surface. This positively charged film has a strong absorption and neutralisation effect upon the negatively charged cell walls of the micro-organisms such as bacteria, fungi and viruses. Thus neutralised, the micro-organisms can no longer interact with their environment and death occurs by suffocation – producing the function of Physical Antimicrobial.

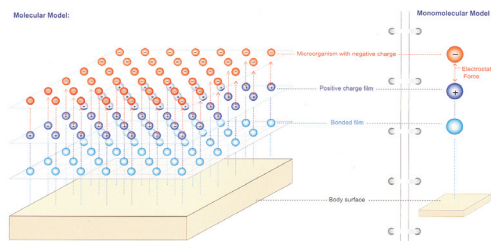
This Physical Antimicrobial action avoids the occurrence of drug-resistant strains and helps in prevention of social problems of biological drug resistance associated with antibiotic drugs.

Areas of Usage:

- i Killing and isolation of the bacteria, fungi and viruses on skin and mucous membranes, it can also prevent the infection from pathogenic micro-organisms.
- ii Auxiliary treatment of inflammation-infected and un-infected wounds. JUC™ has the function of isolating the wound from the outside through long acting antimicrobial function preventing secondary infection, promoting wound healing.
- iii Preventing nosocomial infections, JUC™ can be used as long-acting antimicrobial on articles that come in contact with wound surface like hands, devices, gauzes, underpants, etc.

on an article which has been sprayed. The surface acquires the function of very strong absorption of pathogenic micro-organisms (bacteria, fungi, viruses) that are negatively charged. The pathogenic micro-organism is thus trapped and their respiratory enzyme on which they rely for existence is put out of action, thereby inhibiting the micro-organism or killing it.

**For further information please contact:
AM SCIENTIFICS LTD**



Ingredients and mode of function:

JUC™ has for composition organosilicon quaternary ammonium salt, a water soluble liquid of macromolecular active agent.

When the liquid preparation of this product is sprayed on the surface of skin or an article, it will quickly solidify adhering to the skin to form an invisible molecular antimicrobial dressing. Its structure is a dual overlapping of Bonded film and Positively Charged Film.

Bonded Film:

The bonded film is composed of macromolecular (organosilicon) securely bonded to the body surface in form of chemical bond, thereby providing the function of long-acting antimicrobial.

Positively Charged Film:

The positively charged film is composed of cationic (quaternary ammonium salt) activators to form a reticulate film with positively charged on the surface of skin or



Established in 1984, AM SCIENTIFICS LTD is active in marketing and distribution of high quality wound care, medical skin care devices and implants destined for use in hospitals, clinics and medical practices.

AM SCIENTIFICS is Exclusive Swiss Distributor for **AlloDerm**®, **Cymetra**™, **JUC**™ and other plastic, burn surgery & dermatology products and is active in most European Union (EU) countries.



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