Kenofix, the next step in skin disinfection

When talking about the disinfection of the skin, it could be considered by some as a treatment that only occurs occasionally in livestock production. However when we take a closer look we see that the reality tells us a different story. Consulting visits with farm managers and veterinarians that work on a day-to-day basis in intensive livestock production, reveals us the bare necessity of a good skin disinfectant that can be used routinely and implemented in standardized treatment protocols.

The modern pig and dairy production is constantly challenged by for example legislation, public opinion, variable meat prices, disease outbreaks, export restrictions, animal welfare etc. To overcome these challenges the industry is also driving on innovation and cost benefit solutions.

Skin disinfection solutions make no exception to the rule. For modern pig and -dairy farming an antiseptic product should comply with 3 major parameters. First of all the product must work in real farm conditions where animals are confined, a lot of manure, heat and humidity can occur. Secondly the product must be economic in use hence it will be used routinely (navel disinfection, castration, dehorning, etc). Last but not least skin disinfectants should be free of antibiotics. By eliminating routine, non-therapeutic uses of antibiotics, the meat industry can reduce the potential for antibiotic resistance and ensure these important drugs remain effective for treating when necessary.

CID LINES has developed a unique skin disinfectant spray which combines those 3 parameters named "KENOFIX".

2-phase aerosol system

A spray can makes the product easy to apply, preserves the product longer and doesn't require any handling or tools to apply it. The can itself is made of 1 piece, high quality aluminum. This ensures no welding must be done like it is the case with thin cans and the can cannot rust. The propellant is 100% homogenous with the product inside the can. This offers a real advantage in use in real farm conditions. The can does not need shaking and can be used upside down. No need to turn the animal, turn the spray can! Furthermore the 2 phase-propellant system ensures no pressure difference inside the can when empty or full. This brings yet another 2 major advantages for the user: The spray-can can be emptied completely and the output (consumption) when sprayed is always the same, from a full to emptying the can. Making it economical

Aerosol Antiseptic

The active ingredient in Kenöfix is clorocresol. It guarantees a very strong and fast bactericidal, virucidal and fungicidal activity. Kenonfix has demonstrated its efficacy according to the European norm EN1656 which validates a bactericidal activity towards Staphylococcus aureus, Enterococcus hirae, Streptococcus suis, Pseudomonas aeruginosa and Proteus vulgaris. (see table 1). Furthermore Keno fix has also shown fungicidal activity according to the European norm EN1756.

	%	Contact time	Log reduction
Staphylococcus aureus	40%	5'	> 5,06
Proteus vulgaris	20%	5'	> 5,52
Enterococcus hirae	20%	5'	> 5,53
Streptococcus suis	20%	5'	> 5,21
Pseudomonas aeruginosa	20%	5'	> 5,53

In accordance to the standard EN1656:2009, Keno™fix presents already a bactericidal activity when diluted at 1/5th of the RTU concentrate!

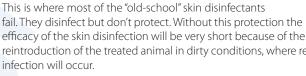
Second skin technol-

The biggest challenge for skin disinfectant products is to have the ability of disinfecting and protecting the wounded skin in real farm conditions. Meaning that the disinfected skin should maintain in that status for as long



fail. They disinfect but don't protect. Without this protection the efficacy of the skin disinfection will be very short because of the reintroduction of the treated animal in dirty conditions, where reinfection will occur.

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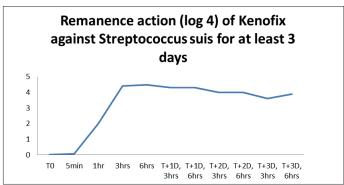


Once the film is dry the real magic happens!

To overcome this difficulty, a unique second-skin-technology has been incorporated in Keno fix. The copolymers of the high quality plasticizer create a strong and flexible film on the skin. Hence the name "second skin technology". It is like a bandage (un esparadrapo). This plastifier makes the film flexible and keeps it intact on the skin for a few days. The film forming agent in Keno™fix has a good skin adhesion and dries very fast. Very important when treating piglets for example. You need a product that dries fast so it will not be rubbed off. The dry film will also have no outward stickiness. Once the film is dry it is not soluble in water which makes sure it can stay as long as possible onto the skin. This second skin technology ensures an abrasion resistance film and a real physical protection from the environment.

Prolonged release of biocidal substance

The biocidal substance is captured in the film. There it migrates towards the skin. This process will take place for at least 4 to 5 days. This remenant (residual) effect is demonstrated according to norm ISO22196 (see table 2). So the instant disinfection takes place directly after the product is applied and while it is still wet. Very soon the film dries and from that moment on the biocidal activity is further assured for at least 4 days (see table 2) when the disinfectant gets released slowly from the film. Furthermore the film is permeable for oxygen, allowing the skin to breathe and aiding recovery.



The Kenofix film is still showing **bactericidal activity after 3 days** which proofs it's very strong remnant capacity!

Kenofix can be used for all species (pigs, dairy cows, beef cows, sheep, goats etc) by spraying 15-20cm from the skin, hooves, tail ends, scrotum, claws, navels, knees, horns, etc.

