

disinfection preparation

SEPTOCHEM

based on 70% grain alcohol, contains bactericidal fungicides

Symbol:

CN Code 3808 40 90

Characteristics:

SEPTOCHEM disinfectant is a transparent, colorless liquid based on 70% grain alcohol. Due to its active substance - chlorhexidine digluconate, SEPTOCHEM is characterized by highly potent antimicrobial activity. SEPTOCHEM's aggressive biocidal effect leads to the immediate termination of the bacterial cell. SEPTOCHEM is able to inflict damage to the ribosomal RNA and inhibit the bacterial cell membrane synthesis, causing osmotic lysis or cytoplasmic coagulation. SEPTOCHEM has the distinctive odor of ethyl alcohol.

Product features:

SEPTOCHEM has a strong bactericidal and bacteriostatic effect due to the active substance present in its composition: chlorhexidine digluconate, one of the biguanidine derivatives. Chlorhexidine is bactericidal against Gram-positive bacteria. It is highly effective on methicillin-sensitive (MSSA) and methicillin-resistant (MRSA) staphylococci. SEPTOCHEM also displays extremely efficient antibacterial activity against Gram-positive cocci: *Streptococcus viridans*, *Streptococcus haemolyticus*, *Streptococcus pneumoniae*, *Streptococcus mutans*, *Streptococcus agalactiae*, *Streptococcus* serotypes and ribotypes, of the *Enterococcus* species. Among the gram-negative bacteria, *Escherichia coli*, *Haemophilus influenzae*, *Gardnerella vaginalis* and *Acinetobacter* are the most sensitive and susceptible to the power of the preparation. Alcohol solutions of chlorhexidine exhibit forceful terminating activity on acid-resistant mycobacteria. A solution of chlorhexidine digluconate in 70% ethyl alcohol effectively destroys bacteria of the genus *Mycobacterium tuberculosis*.

SEPTOCHEM displays exceptional antibacterial activity against anaerobic bacteria: *Bifidobacterium bifidum*, *Clostridium* species, *Bacteroides* species, *Prevotella melaninogenica* and *Fusobacterium*. Due to the presence of chlorhexidine digluconate, the fungistatic and fungicidal activity of SEPTOCHEM also includes *Candida*, yeast and some dermatophytes, including *Trichophyton mentagrophytes*. Chlorhexidine subdues a number of viruses: Herpes- including HSV and *Hermes Hominis*, Paramyxov- (including RSV), Rhabdo- (including VSV and Rabies Virus) and Retro- (including HIV). Particularly noteworthy is the high activity of chlorhexidine digluconate against HIV with a 70% ethyl alcohol (0.05% solution – causing inactivation of HIV within 1 minute). Chlorhexidine is an antiseptic with a broad spectrum of antibacterial activity. It acts on fungi and some viruses without irritating the skin and mucous membranes. For the skin of the hands, SEPTOCHEM is a far superior antiseptic to ethyl alcohol. Thanks to its composition, SEPTOCHEM contains an agent that, when accumulating on the epidermis, has a two-phase effect. It provides a fungicidal effect on both the transient and living flora on the skin of the hands. As a result, the antimicrobial effect is greatly extended.

With SEPTOCHEM, there is no danger of the compound accumulating in the body. Washing the body several times causes removal of chlorhexidine from the skin in 96-98% of cases. The minimal amount of the agent which can possibly remain in the body does not cause toxic reactions. The active substance used in SEPTOCHEM is very effective in streptococcal infections, prevents secondary infection of skin eruptions in the course of viral infections, facilitates and accelerates the healing of skin lesions. It has a beneficial effect on the treatment of wounds, burns, dermatoses, purulent ulcers, hand and foot dermatitis, viral skin diseases and purulent folliculitis. It has an effect on the treatment of skin infections in the course of erysipelas, herpes zoster, chickenpox and herpes. In dentistry, chlorhexidine digluconate is used in the treatment and prevention of bacterial infections in the oral cavity and in soft craniofacial tissues. SEPTOCHEM acts against aerobic and anaerobic bacteria such as *Streptococcus muntans*, *Peptostreptococcus Mirois*, *Prevotella intermedius*, *Porphyromonas gingivitis*. Chlorhexidine is effective in reducing inflammation of the salivary glands, alveolitis, periodontitis, abscesses and facial boils.

SEPTOCHEM does not cause toxic reactions. It is not carcinogenic or mutagenic. Contact with skin on the hands causes it to dry.

SEPTOCHEM is a volatile and flammable liquid that forms explosive mixtures with air. It is essential to read the Safety Data Sheet prior to use.

Purpose:

SEPTOCHEM is intended for external use. It is dedicated for disinfection, cleaning and cosmetic improvement of machines and devices. It is ideal for cleaning reusable personal protective equipment (aprons, protective suits and masks, oxygen apparatuses, absorber housings, etc.). It is also used for

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surfaces, materials, equipment and furniture that do not come in contact with food or agents animal nutrition. SEPTOCHEM also has bactericidal and fungicidal effects. Ingestion of SEPTOCHEM causes no serious health consequences.

Application method:

SEPTOCHEM should not be diluted. The concentration of the active substance ensures that the preparation has optimal antimicrobial activity. Dilution of SEPTOCHEM will reduce its disinfecting capacity. Elements to be disinfected should be washed and dried. Apply the liquid to the infected surfaces with a spray or brush. Allow the product to penetrate the infected area for at least 10 minutes. The preparation is volatile and evaporates from disinfected surfaces in a very short period of time. The rate of evaporation depends on the surface temperature of the elements on which it is applied. For cosmetic purposes, apply SEPTOCHEM to the surfaces of the elements for cosmetic cleaning. Proceed to wipe them with a clean cloth. When decontaminating your hands - apply about 5 ml of the preparation on your hands, rub thoroughly into the skin for about 1 minute, leave to dry. After rubbing, apply a protective cream on your hands. The preparation should not be mixed with other disinfecting and cleaning agents containing surface-active substances. This may cause a decrease in its antimicrobial activity or may lead to complete inactivation of the product. When using the product, do not eat, drink or smoke. Please note that the product vapours are flammable. Apply basic health and safety and fire regulations. Before starting work with the product, read the Safety Data Sheet. Disinfection of respiratory protection equipment by "FASER" S.A. follow in accordance with the instructions No. ID /1/06.

Conditions of use at the workplace:

Use SEPTOCHEM in well-ventilated or ventilated rooms. Electrical equipment should be resistant to explosion. The product should be used in accordance with safety principles, with particular regard to health and safety and fire regulations. Wear gloves and protective clothing. Do not eat, drink, smoke or take medicine while working with the product. Keep the product away from ignition sources as the product vapours are flammable. Apply basic health and safety and fire regulations. Avoid facilitating the formation of vapours. Vapours form explosive mixtures with air which are highly flammable. Always have equipment available in the event of fire or leakage.

Transport:

The SEPTOCHEM disinfectant is classified as a hazardous material and is subject to RID / ADR transport regulations. Material identification number UN 1170, class / classification code - 3 / F1, packing group II, hazard identification number 33. Transport in the manufacturer's original packaging. Packaging must be secured against sliding and the possibility of mechanical damage. It is forbidden to transport packages with SEPTOCHEM in uncovered vehicles and in other vehicles not adapted to the transport requirements of the product. Do not expose to low temperatures for an extended time. Protect against overheating and excessive exposure to sunlight.

Storage:

SEPTOCHEM disinfectant should be stored in original, properly labeled, closed containers in a ventilated area. Storage rooms should be closed and the product must be kept away from ignition sources. Ensure the area is accessible to authorized personnel only. Protect against rain and excessive direct sunlight or other heat sources. The storage place should be well ventilated, intended for storing hazardous substances. Do not allow mechanical damage to the packaging, which may lead to uncontrolled leakage of the preparation. SEPTOCHEM is a volatile, highly flammable substance. Vapours form explosive mixtures with air. Do not expose to low temperatures for an extended time. Keep at temperatures between +1 to + 25 ° C in rooms that provide adequate protection. The storage period is defined as equal to the warranty period, i.e. 12 months.

Terms of warranty:

The SEPTOCHEM disinfectant is covered by a 12-month manufacturer's warranty. The warranty does not apply to packaging that has been damaged as a result of improper handling, e.g. throwing, careless transport. The warranty does not apply to a chemically contaminated preparation. The warranty does not apply to the preparation, whose defects arose as a result of improper storage of the product by the recipient. Replacement is subject to the conditions of packaging, storage and transport which have been observed. Replacement is also subject to defects preventing the use of the product for its intended purpose which arose in the production process and are the fault of the manufacturer.

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Packaging:

The disinfecting preparation is available in packages with a capacity of 1 l, 5 l or in other sizes options to be agreed between the producer and the recipient. The preparation is sold in plastic containers.

Selected technical parameters:

Physical form, color	colorless, volatile, transparent liquid
Density at temp. 20 °C	about 0,88 g/cm ³
pH at temp. 20 °C	7,0
Freezing point	below -117 °C
Boiling point	78 °C
Flash point	17 °C
Auto-ignition temperature	> 425 °C
The range of creating explosive mixtures with air	3,5 – 15,0 %vol.

THE PREPARATION IS NOT SUITABLE FOR CONSUMPTION

The product complies with the factory raw material standard No. ZN-2012 /CH/44.
Possesses a Hygienic Certificate issued by the National Institute of Hygiene in Warsaw.
Permission No. 3722/09 of 10.07.2009 issued by the Minister of Health
for trading the biocidal product SEPTOCHEM.

SEPTOCHEM was tested in the manufacturer's accredited laboratory
of rescue equipment and mining lamps - FSRIŁG "FASER" S.A. in TARNOWSKIE MOUNTAINS.

**The product has received a positive opinion in the performance testing of
disinfection and cosmetics of respiratory protection equipment manufactured by "FASER" S.A.**

Detailed instructions for carrying out disinfection have been developed in cooperation with the manufacturer and the
respiratory protection equipment manufactured by "FASER" S.A. - ID No. / /06 of March 23, 2006.

CHEMIKA Marek Gajewski is a guarantee of the proper quality of the product, but it does not affect the manner and conditions of its use. The information contained in this card is intended to ensure optimal use of the product. It not, however, the basis for the manufacturer's legal liability, as the performance conditions are beyond his control. In the case of connection with products from other companies, the manufacturer is not liable for any defects or damages. The information presented above was given in good faith, according to the current state of our knowledge and practical experience. Deviations from the recommendations should be agreed with *CHEMIKA Marek Gajewski*. We reserve the right to change the content in subsequent editions of the technical card without prior notification of this fact to recipients.