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Preface

NOSOCOMIAL INFECTIONS or HOSPITAL ACQUIRED INFECTIONS (HAI's)

HAI's are infections which patients acquire during the course of receiving a treatment within a healthcare setting. HAI's are mostly related to contacts with contaminated surfaces, instruments or inappropriate hand-hygiene.

Within any healthcare environment body fluids including blood, secretions, excretions (except sweat), open wounds and mucous membranes are considered possible vectors for both the acquisition and transmission of infectious diseases. An infection occurs when microorganisms (bacterium, protozoan, virus or fungus) invade a susceptible host.

There are three major transmission routes for the spread of infections:

direct contact with contaminated surfaces and equipment, transmission through **droplets** (coughing, sneezing etc. Droplets containing germs from an infected person are propelled over a short distance). Germs may also be **waterborne** (through showers, bathtubs etc).

The majority of HAI's are however associated to germs isolated on surfaces, equipment, instruments and hands. The interaction of patients with their environment makes the contact infection the most frequent route of transmission of germs.

As a result meticulous environmental hygiene and particularly disinfection are considered to be among the most important measures to prevent spread of pathogenic microorganisms and the transmission of infections.



TOSIL
med

MEETS THE HIGHEST STANDARDS OF HOSPITAL HYGIENE

TOSIL_{med} is a highly effective, safe and sustainable surface disinfectant - according to EU Standards - for use in prophylaxis in hospital, primary healthcare and general practice.



Advantages:

- ➔ a biocidal activity against a broad spectrum of bacteria, virus and fungi
- ➔ a high number of microbiological test reports according to EU Standards certify its biocidal efficacy
- ➔ destroys microorganisms irreversibly and excludes the build-up of resistance
- ➔ has no mutagenic or toxic potential
- ➔ not harmful to skin
- ➔ the recommended solution is not corrosive to materials, it can be used even on sensitive materials such as acrylic glass, plastics and rubber
- ➔ simple to use and easy to dose
- ➔ it acts through the mechanism of oxidation
- ➔ a solution once prepared remains active for up to 4 weeks
- ➔ biodegradable

Areas of application:

Used for all types of surfaces, medical devices and non-invasive appliances / instruments which can be immersed, rinsed, sprayed or wiped down.

It is ideally suitable for risk areas where one needs a user and material friendly surface disinfectant with a broad spectrum of effectiveness.

Dosage:

The recommended solution as a disinfectant for use in prophylaxis in hospital, primary healthcare and general practice is a 0.5% solution of **TOSIL_{med}** (one Tab dissolved in 0.5 Ltr. of water).

Instruction for use:

To prepare the disinfecting solution fill up a bottle, tub or bucket with pure water, add one or more **TOSIL_{med}** tablets (see dosage instruction) and give a quick stir or shake the bottle.

Dosage instruction:

total quantity of disinfecting solution	0.25 %	0.50 %	1.00 %
0.5 litre, (500 ml)		1 Tab	2 Tab
1.0 litre, (1000 ml)	1 Tab	2 Tab	4 Tab
2.0 litre, (2000 ml)	2 Tab	4 Tab	8 Tab



TOSIL_{med}

Is tested according to EU Standards and found effective

Testing methods used:

EN 1040	bactericidal	effectiveness
EN 1275	fungicidal	effectiveness
EN 14 347	sporicidal	effectiveness
EN 1276	bactericidal	effectiveness with load
EN 1650	fungicidal	effectiveness with load
EN 13 704	sporicidal	effectiveness with load
EN 13 697	bactericidal	effectiveness with load
EN 13 697	fungicidal	effectiveness with load
EN 14 476	virucidal	effectiveness with load

TOSIL_{med}

MEETS THE HIGHEST STANDARDS OF HOSPITAL HYGIENE

Disinfectant substances in comparison:

Active substances	Microbiological efficacy						Toxicology effects			Corrosive effects	
	Viruses		Bacteria		Myco-bacteria	Fungi	NON Cytotoxic	NON Mutagenic	NON Carcinogenic	No high protein error	None on surface materials
	Enveloped	Non-enveloped	Gram-positive	Gram-negative							
TOSIL Sodium-p-toluene-sulfonchloramide	+	+	+	+	+	+	+	+	+	+	+
Peracetic acid	+	+	+	+	+	+	+	+	+	-	-
Phenols	+	-	+	+	+	+	-	-	-	-	-
Formaldehyde	+	+	+	+	+	+	-	-	+	-	-
Glutaraldehyde	+	-	+	+	+	+	-	-	-	-	-
Quaternary ammonium compounds	-	-	+	-	-	+	+	+	+	-	+
4-chloro-m-cresol	+	-	+	+	-	+	+	+	+	-	-
4-Hexyl-resorcinol	-	-	+	+	+	+	+	+	+	-	-
Alcohol 70%	-	-	+	+	+	+	+	+	+	-	+
Hydrogen peroxide	+	+	+	+	+	+	+	+	+	+	-
Dichloro-cyanurate	+	+	+	+	-	+	+	+	+	+	-
Sodium Hypochlorite	+	+	+	+	-	+	+	+	+	-	-



MEETS THE HIGHEST STANDARDS OF HOSPITAL HYGIENE

TOSIL STRONGLY DIFFERS FROM OTHER CHLORINE COMPOUNDS

TOSIL med mode of action

Unlike common chlorine products TOSIL med's active substance (sodium-p-toluenesulfonylchloramide) attacks microorganisms more powerfully and targeted. Once the Tosil molecule comes into contact with a target's peptide bonding, it destroys the amino-group of the protein-structure. At a second stage a bi-functional mechanism is taking place, in that the Tosil molecule releases two further mol of nascent oxygen which also attack the target's amino-group. This double-attack mechanism ensures that the microorganisms' protein chain is broken.

Therefore by disinfecting with TOSIL med microorganisms are irreversibly destroyed and resistance cannot build-up. For the same reasons TOSIL is effective against the broadest spectrum of germs covering virus, bacteria, spores and fungi.

How does TOSIL med compare with common chlorine products?

Common chlorine compounds release subchlorous acid immediately. Thus a permanent release of chlorine gas and a strong chlorine smell amount finally to an environmental nuisance. For the user it also means that these chlorine-solutions are unstable and lose their effectiveness rapidly.

TOSIL behaves differently :

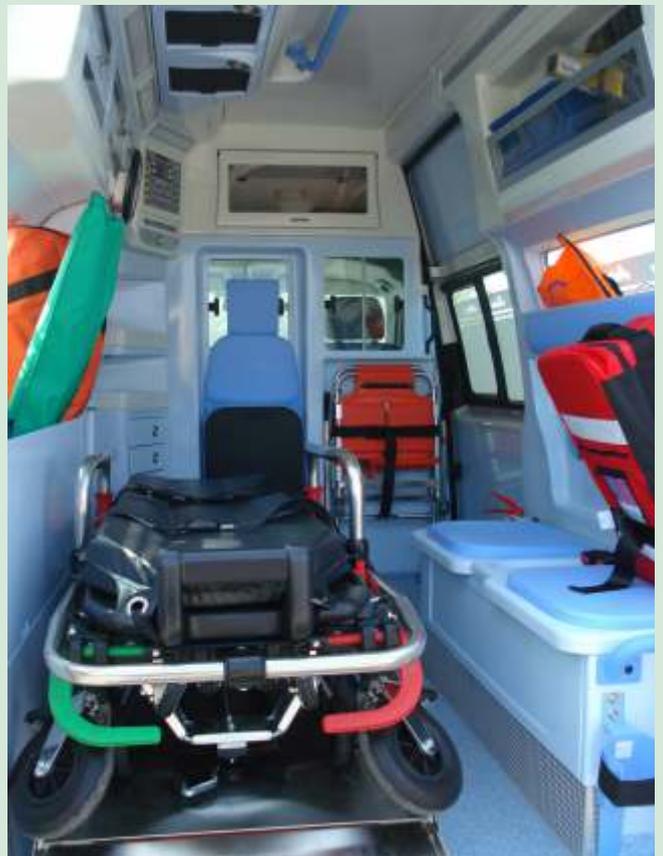
Your TOSIL med solution splits its chlorine molecule off only when it comes into contact with a protein-structure (microorganisms). For the user this means that once prepared, a TOSIL solution remains stable and active for up to 4 weeks. Once it has acted against its target the molecule disintegrates into readily biodegradable substances like: nitrogen (N₂), sodium sulfate (Na₂SO₄) and carbon dioxide (CO₂).

TOSIL med stability and storage conditions

Tosil tablets have a shelf-life of 3 years (from date of production). Once dissolved into a solution Tosil remains fully active for at least 4 weeks.

Note that TOSIL med tablets should be kept at temperatures of below 25 degrees.

A particular advantage of Tosil is its space-saving compactness : A box of 1600 TOSIL med tablets measures only (L x W x H) 58 cm x 40 cm x 22 cm and will provide you with up to 800 litres of highly effective 0,5% disinfectant solution.



INOQUEST LABS INDUSTRIES LLC

Established in Dubai (UAE) Inoquest Labs Industries LLC is committed to research, development and production of innovative products in disinfection, sanitation and cleaning.

It is our key concern to combine and balance our products efficiency with environmental responsibility. Inoquest Labs - as a young and dynamic company - is always on the level of latest innovation and technological progress.

In addition to offering our products (as per list) we are committed to develop with our customers a problem-solving relation. Our customers projects or problems in disinfecting and cleaning are the focus of our efforts. We then will come up with customised concepts and solutions.

The competence and flexibility of our team-members allows us to develop products for our individual customers particular needs and requirements.

Through these unique efforts we ambition to build a durable trust and reliable cooperation with our customers.



TOSIL exists for specific users:

TOSIL
med

TOSIL
fx

TOSIL
farm

TOSIL
hitec

TOSI
vet

TOSI
aquil

**Use biocides safely.
Always read the label and product
information before use.**

**EU Biocide Register No.
N-45489**



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