



TOSIL[®] hitec

Disinfectant Tabs

MEETS THE HIGHEST STANDARDS OF HYGIENE



Preface

Disinfection and cleaning of surfaces, equipments and machineries are very important measures to maintain the hygiene standard and ensure the quality of service or products in the food processing or Hotel industry.

TOSIL[®] hitec surface disinfectant can be applied to all kinds of surfaces and in every situation where a user - and material-friendly disinfectant with a broad spectrum of effectiveness is needed.

Any environment represents a risk of contamination via surfaces and tools. Just think of hotels, kitchen, rest rooms, air conditioning systems, gym, sauna-cabins, solarium etc.,

The highest risk of contamination stems from germs isolated on surfaces, equipments, instruments and hands. The interaction of staff, visitors, customers 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 the decisive measures to prevent spread of pathogenic microorganisms and the transmission of infection.



Provide Hygienic Environment to your customers with **TOSIL[®] hitec**

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MEETS THE HIGHEST STANDARDS OF HYGIENE



TOSIL[®] hitec is a highly effective, safe and sustainable surface disinfectant - inline with EU Standards - and active against a broadest spectrum of microorganisms.



TOSIL[®] hitec offers following advantages:

- ➔ A biocidal activity against a broad spectrum of virus, bacteria, spores and fungi.
- ➔ A high number of microbiological test reports, done according to EU Standards, certify its biocidal efficacy
- ➔ Destroys microorganisms irreversibly and excludes 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 etc.,
- ➔ 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:

TOSIL[®] hitec is used on 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 predictably effective surface disinfectant, easy and safe to use.

Dosage:

The recommended solution as a disinfectant for use in high risk areas as well as in food processing is a 0.5% solution (one tab dissolved in 0.5 liter of water).

Instruction for use:

To prepare the disinfecting solution fill up a bottle, tub or bucket with pure water, add one or more (as request) tablets. Now the prepared solution is ready for use.

Note: The prepared solution remains stable for 4 weeks when it's stored in a TOSIL spray bottle.



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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

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

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Disinfectant substances in comparison:

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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	+	+	+	+	-	+	+	+	+	+	-

TOSIL STRONGLY DIFFERS FROM OTHER CHLORINE COMPOUNDS

TOSIL mode of action hitec

Unlike common chlorine products the active substance of **TOSIL** (sodium-p-toluenesulfonchloramide) attacks microorganisms more powerfully and targeted. Once the Tosil molecule comes into contact with a targets 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 targets amino-group.

This double-attack mechanism ensures that the microorganisms protein chain is broken. Therefore by disinfecting with **TOSIL** 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** compare with common chlorine products? hitec

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: hitec

Your **TOSIL** 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 carbondioxide (Co₂).

TOSIL stability and storage conditions hitec

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 the **TOSIL** 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** 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.



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YOUR HOTEL MEETS THE HIGHEST STANDARDS OF HYGIENE

Hotels are identified as risk areas for contamination: a dense concentration of people coming from all over the world and leaving their traces in bedrooms, on tables, toilets, desks, carpets; sneezing and coughing droplets into the air.

Therefore staying in a hotel might not be the most exciting prospect for people who are aware of germs and the potential of getting contaminated. As per surveys 80% of infections are spread from person to person or caught by touching germ-infested surfaces in hotels, airport, shopping malls, public transports, rest-rooms, etc.,

May be a sick person stayed in the room days before you checked in and left behind its germs. Whether germs are virus, bacteria, yeast or fungi, these organisms remain active on most surfaces for several days - no matter whether the surfaces are stainless steel, wood, plastic, or paper etc. It is a hotels duty to ascertain that each arriving guest finds a properly cleaned and disinfected room.

TOSIL_{hitec} – will decontaminate the critical surfaces in the room and free them of all species of virus, bacteria, yeast, mold spores and fungi etc. Just apply **TOSIL_{hitec}** (in the convenient spray-bottle) to all critical surfaces such as hotel rooms, restrooms, gym, the TV remote, the telephone, the alarm clock, the ice bucket, pens, shower curtains, wall, bathroom faucets and door handles, light switches, thermostats and windows etc.,



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YOUR SOLARIUM MEETS THE HIGHEST STANDARDS OF HYGIENE

Solariums are closed environments, where one users sweat, skin disease or open wound can spread infection easily to the next user.

Therefore regular cleaning and disinfection is needed between each user.

TOSIL_{hitec} – it's multiple action will clean and destroy all types of germs and microorganisms.

TOSIL_{hitec} - is gentle to common surfaces and not irritating to skin.

Apply **TOSIL_{hitec}** – to all surrounding surfaces such as solarium beds, clothes, machineries and equipment's etc.,



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YOUR AC-SYSTEM MEETS THE HIGHEST STANDARDS OF HYGIENE

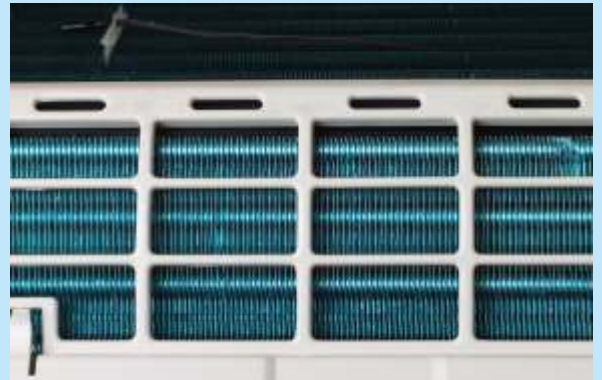
Air-conditioning - is a system for controlling the humidity, ventilation, and temperature. It offers great comfort in hot climate. The same air conditioning though can spread serious infection and diseases, if there is no efficient procedure for cleaning and disinfecting the system regularly.

You might not know it, but an air conditioner can harbour spores and spread dangerous germs. Mold spores colonise the air conditioning ducts and mix with bacteria in the dust and dirt that lies in unclean A/C vents. When these microorganisms are propelled into the room you may experience common sicknesses like headaches, trigger allergic reactions, skin disorders, cold & flu etc.

Regular cleaning and disinfecting is mandatory for the ducts and all surfaces surrounding the air conditioner.

TOSIL_{hitec} – will destroy the typical “flora” found in air-conditioners: virus, bacteria, yeast, mold spores and fungi etc.,

Apply **TOSIL**_{hitec} : where ever you find air cooling systems such as in cars, hotel rooms, restroom, clubs, gym, homes, public transports, offices or Public buildings.



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YOUR GYM MEETS THE HIGHEST STANDARDS OF HYGIENE

In today's scenario, "Fitness" is the buzz-word to people all over the world. Modern people do anything to stay fit these days. Working out at a gym has become a vital part of everyone's day-to-day life. Few only know that fitness-fun comes with potential risks. Fitness centers are a confined place and harbor millions of disease-causing germs and bacteria. Visitors can easily get contaminated by the flora of microorganisms typically found in fitness-centers.

According to recent surveys, millions of bacteria are found on the surface of the fitness equipment used in fitness centers. These bacteria are highly infectious and may cause skin-abscess or other contact infections.

Rigorous cleaning and disinfecting is the only way to guarantee a hygiene standard that protects visitors from infection.

TOSIL_{hitec} – is highly effective against all types of microorganisms (virus, bacteria, yeast and fungi etc.,)

TOSIL_{hitec} – can be applied to all surfaces, floors, shower areas, lockers, machineries such as handles, treadmills, cycling machines, cross trainer, smith machines, leg press, rowing machine, flex ball, ab wheels, elliptical trainers and other equipment before and after use.



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YOUR KITCHEN MEETS THE HIGHEST STANDARDS OF HYGIENE

A kitchen is home to more germs than any other rooms; heavily contaminated surfaces are sinks, cabinets, shelves, cooking utensils and home appliances as well as sponges, aprons etc.,

Some germs can survive for several days on sinks, or cabinets and colonise throughout the kitchen.

Wherever food products are processed, there is a chance of transmitting germs from kitchen surfaces to food or from foods to kitchen surfaces, especially when we handle raw produces like poultry and meat. Foodborne illness may result. Therefore it is imperative to disinfect kitchens daily before and after every use.

TOSIL_{hitec} – is highly effective against all types of microorganisms (it kills the enteric germs, pathogenic bacteria, like pyogenic cocci and virus etc). Make disinfection part of your daily routine by regularly spraying and wiping your work surfaces with **TOSIL**_{hitec}.

Apply **TOSIL**_{hitec} : to all types of kitchen surfaces like sink, cabinets, dishware, kitchenware, fruits, vegetables, furniture's, clothes, floor, wall, containers, nonmetal ware, utensils and equipment's, house appliance such as air conditioner, dishwasher, refrigerator, stove, water heater, washing machine, trash compactor, microwave oven etc., also household items like cutting boards, dishes, door handles, faucets and doorknobs etc.,

Note: When you disinfect with **TOSIL**_{hitec}, you are killing 99.99% of germs on surfaces. Thus by cleaning and disinfecting with **TOSIL**_{hitec} you eliminate pathogens and keep your customers / family healthy.



WITH **TOSIL**[®]
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YOUR SAUNA MEETS THE HIGHEST STANDARDS OF HYGIENE

A sauna is a closed environment which pumps dry heat around you to boost your blood circulation, relax your muscles and soothe your mind. But along with these benefits comes a risk of transmitting infections between visitors. A steam room provides the perfect environment for growth of germs and bacteria.

As a sauna raises your internal temperature, the body reacts by opening the pores on your skin, cooling the body through sweating. Since sauna is a closed environment sweat can spread infections easily from one person to another. Avoid problems of contamination in your sauna by systematic cleaning and disinfecting.

TOSIL_{hitec} – it's multiple action cleans and destroys all microorganisms (virus, bacteria, yeast and fungi) on surfaces and equipments of your sauna.

Apply **TOSIL**_{hitec} : It is safe on all materials, surfaces: wood, clothes, bathtub, steamer, steam hose, PVC tubes, wooden foot-racks, head cover, water buckets etc.,



The restroom has plenty of places for germs to hide and grow. Even when a restroom looks clean, the underside of the toilet lid or surrounding surfaces are likely to be contaminated areas.

While entering the restroom we touch other high risk surfaces like doorknobs, taps, toilet seats, paper roles, drying machines, toilet flushers, pipes etc.,

When leaving the restroom people do not always wash their hands, thereby increasing the risk of contaminating themselves and others. Microorganisms-virus, bacteria, yeast, fungi and parasites can enter the body easily through hand-to-mouth or hand-to-food contacts.



Germs are invisible, but we can smell contaminated areas. Restroom surfaces should be routinely cleaned and disinfected after every use to avoid the spread of germs.

TOSIL_{hitec} – destroys not only the microorganisms but also removes smell.

Use **TOSIL**_{hitec} on restroom surfaces like walls, floors, toilets, urinals, tabs, sinks, washbasins partition-walls, doorknobs and handles, air vents, ceilings as well as outside horizontal surfaces including countertops etc.,

Create a Hygienic Environment with...

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Disinfectant Tabs



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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 is available for specific areas:

TOSIL
hitec

TOSIL
fx

TOSIL
farm

TOSIL
med

TOSI
vet

TOSI
aquil

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

**EU Biocide Register No.
N-45492**

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