

# ***SOLVOCID***®

## ***THE IDEAL BIOCID***



***DISINFECTANT FOR HOSPITALS AND FOR INDUSTRIAL USE***



**SOLVOCID<sup>®</sup> is hyperpure chlorine-dioxide dissolved in water. It is one of the most effective disinfectants, ever.**

The production of SOLVOCID<sup>®</sup> is based on a brand-new Hungarian invention by Prof. Zoltán Noszticzius and coworkers, at the Budapest University of Technology and Economics.





# The ideal biocide

## TWO FAST FACTS:

1. Chlorine-dioxide kills all pathogenes including bacteria, fungi, protozoa, and viruses, while presenting no practical danger to humans.
2. SOLVOCID<sup>®</sup> is the only hyperpure solution of chlorine-dioxide presently available for industrial disinfection.

The above two facts make SOLVOCID<sup>®</sup> the ideal biocide.



## **Long Known Chemical - Brand New Invention**

Chlorine-dioxide itself is a long-known, widely used chemical. It has been discovered by Englishman Sir Humphrey Davy, exactly 200 years ago. Please note that chlorine-dioxide should not be mistaken for simple chlorine.

Chlorine-dioxide is well-known for its extraordinary disinfecting qualities. For example, in the USA alone, 12 Million people drink tap water disinfected with chlorine-dioxide (for its advantages over chlorine).

**The new Hungarian invention presents chlorine-dioxide in higher purity than ever before, which practically eliminates risks, and greatly extends possible storage time.**

Prof. Zoltán Noszticzus and son Vilmos Noszticzus have founded Solumium Kft. (Solumium Ltd.) for the manufacturing of products based on the new invention. The first product of the company specifically for surface disinfection in hospitals and for industrial use, is **SOLVOCID<sup>®</sup>**.



**SOLVOCID**®

## The Seven Star Disinfectant:

- \*1 Kills all microbas**  
It eliminates all pathogenes including bacteria, fungi, protozoa, and viruses.
- \*2 Not harmful to humans**  
In the quantities needed for disinfection it presents no danger to humans. It has also been proven not to cause cancer or allergies.
- \*3 Goes beyond the surface**  
SOLVOCID can dissolve into both water- and lipid-based materials, providing an in-depth disinfection of the treated region.
- \*4 Takes effect selectively**  
SOLVOCID takes its disinfecting effect by chemically reacting selectively, only with certain substances. Thus, SOLVOCID can still be effective under polluted conditions.
- \*5 Will never become obsolete**  
Microbas will never be able to become resistant to SOLVOCID. That is especially important nowadays, with the emergence of antibiotics-resistant microbas, like MRSA.
- \*6 Evaporates with no trace**  
SOLVOCID is hyperpure chlorine-dioxide dissolved in water, so after taking effect, it oozes away with no residue.
- \*7 Convenient to use**  
SOLVOCID is not corrosive, not irritative, and its odor evaporates quickly.





**SOLVOCID® has been successively used for industrial disinfection in various applications.**

The below pictures were made after the Miskolc flood (Eastern Hungary), in 2010. Disinfection specialists TPM-TEAM Ltd. used high pressure spray machines to spray 100-fold diluted SOLVOCID® onto contaminated surfaces.





## THE EFFECTIVE CONCENTRATION OF VARIOUS DISINFECTANTS

Minimal necessary concentration (given in ppm, parts-per-million) to acquire the desired disinfection in 2,5 minutes.

As the table demonstrates, **chlorine-dioxide** is the most effective disinfectant, requiring the smallest concentration for the desired effect.

(Wilson, C.L. Droby, C.L. *Microbial food contamination*, 2001, pg12)

	E. Coli	S. aureus	MRSA	B. subtilis (spore)	A. niger
<b>chlorine-dioxide</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>100</b>	<b>10</b>
natriumhypochlorit	10	10	10	>1 000	1 000
betadine	10	100	100	>1 000	1 000
chlorhexidine	100	10	1 000	1 000	>10 000
absolute ethanol	500 000	500 000	500 000	500 000	500 000
phenol	10 000	>10 000	>10 000	>10 000	>10 000
glutardialdehyde	100 000	100 000	100 000	100 000	100 000

# *SOLVOCID*®

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