



FLOMAN

COPPER IONS BASED

A COPPER
SULPHATE
BASED SURFACE
DETERGENT



COPPER SULFATE-BASED DETERGENT THAT BLOCKS BIOGENIC SUBSTANCES

TECHNOLOGY

FLOMAN is a detergent based on copper sulphate able to sanitize surfaces thanks to its ability to block biogenic substances.

HOW IT WORKS

The product, diluted in water, creates on the treated surfaces an active layer that reacts with the biogenic substances through free copper ions, creating an unfavorable environment for the proliferation of bacteria and viruses.

TECHNICAL FEATURES

NO FOAM

ACID PH

ODORLESS

SUITABLE FOR USE WITH AUTOMATIC SYSTEMS

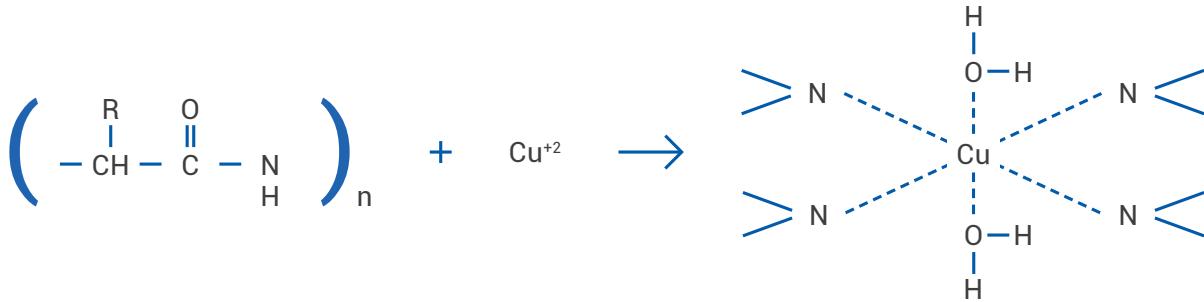
AVAILABLE PACKAGES: 1L - 5L - 10L OR IBC

SUITABLE FOR FLOOR WASHERS MACHINES



COPPER IONS ACTIVITY (Cu²⁺)

Copper ions Cu (II), once released in the washing water, can generate antagonistic reactions with potentially biogenic molecules, such as protein's amino acids:



The Cu (II) ions, in synergy with the surfactants, are able to perform denaturing actions and generate unfavorable conditions for life while maintaining a low level of contamination of microbes on the treated surfaces. It is as if it generates, in an increased form, the action of contrasting biogenic substances of metallic copper, known to be used in hospitals due to this characteristic.

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EFFECTIVENESS

Efficacy tests, conducted at various concentrations of FLOMAN (minimum dose 3 mL/Liter, intermediate dose 5 mL/Liter, recommended dose 15 mL/Liter), have demonstrated the ability of the product to reduce biogenic substances, with the consequent effect of counteracting the load of mesophilic bacteria and enterobacteria from contaminated surfaces.

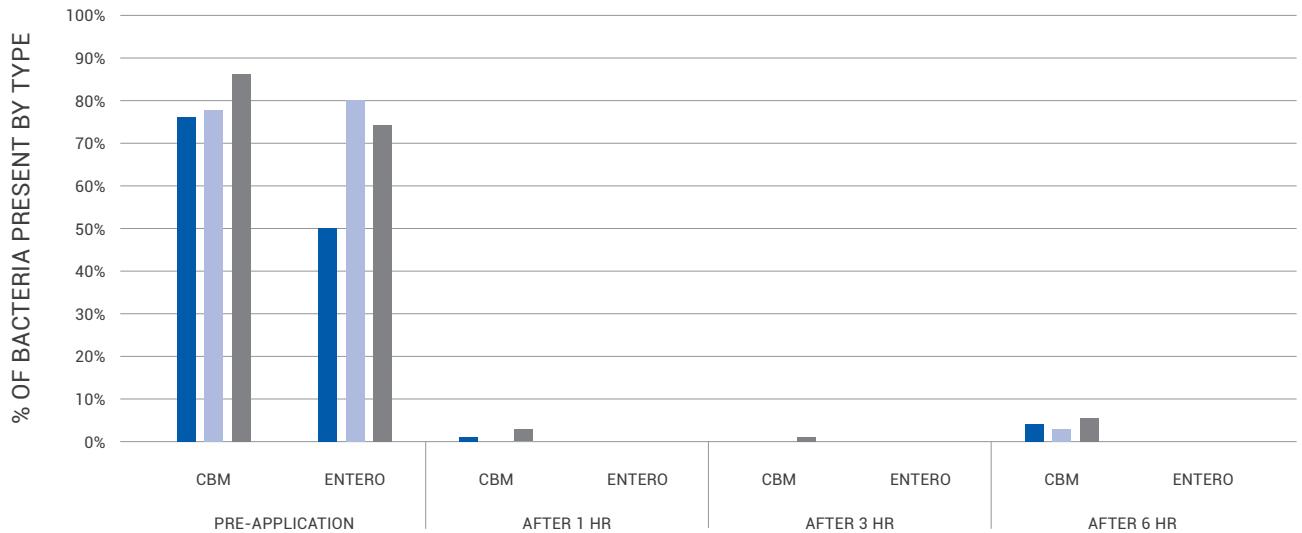
From the pre vs post sanitization comparison it was found that the average charge of the tested species decreases as the dose of FLOMAN used increases, until it is eliminated at the recommended dose.

DURATION OF THE ACTION

The duration of the antagonistic action on biogenic substances, understood as the ability of ions to be active over time so as to act, constantly, against the molecular precursors of life, led to significant results. In fact, even after 6 hours from the application of FLOMAN, the level of contamination on the tested surfaces is completely negligible, leaving the guarantee of high persistence of anti-biogenic action.



DURATION OF ANTI-BACTERIAL ACTION



TIME OF THEORETICAL RE-APPEARANCE OF BACTERIA BY TYPE

■ LOW DOSAGE 3 mL/Litre
 ■ MID DOSE 5 mL/Litre
 ■ RECOMMENDED DOSE 15 mL/Litre

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APPLICATION METHOD

- 1) Fill the scrubbing bucket or industrial floor washer with the volume of water needed to treat the surface to be cleaned.
- 2) Add the indicated amount of product, making sure it is uniformly dissolved.
- 3) Wash the surface in question, allowing it to dry naturally; It is not necessary to rinse.
- 4) Once dry, the treated surface is ready to be reused.



DOSAGES

Add 15 ml of product for every liter of water. Distribute the solution onto the surfaces to be treated with a cloth or other product-soaked medium. The product can be used in floor washing machines, with identical dosage (15 ml of FLOMAN per liter of water).



RECOMMENDED APPLICATIONS

- 1) Surfaces in the food industry, not in direct contact with food.
- 2) Surfaces in hospitals.
- 3) Surfaces in crowded places where the pressure of contamination pressure can be very high: airports, stations, etc.
- 4) Surfaces of objects exposed to high contamination.

DISCOURAGED APPLICATIONS

Surfaces or objects of iron, galvanized iron, marble if not polished, and any calcium carbonate based surface, are not treatable due to their incompatibility with the formulation of FLOMAN.



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