BIO DISINFECTION

99.9% Biodegradable
Can be used on all surfaces
Effective against bacteria, viruses, fungi and spores
100% AUTOMATED SURFACES BIODISINFECTION

NON TOXIC       NON ALLERGENIC       NON CORROSIVE       NON OXIDISING

CONCEPT

The latest generation of Oxy’Pharm® surface disinfectants combines the effects of Nocospray® and Nocolyse®.

The dual effect of Nocospray® and Nocolyse® enables the air and the surfaces in a room to be disinfected automatically.

Nocolyse® is a biodegradable disinfectant based on a combination of hydrogen peroxide and silver or ascorbic acid.

Nocospray® was developed around a heating and ionizing turbine that sprays the Nocolyse® liquid transformed into a dry fog.

RESULTS

The unique aspect of the Nocospray®/Nocolyse® concept is that it makes germs destroy themselves.

Its daily preventive action reduces the risk of infection to a minimum and ensures it remains there by progressively eliminating the biofilm, without creating any form of germ resistance.

A curative treatment can also be used for ad hoc applications or against severe contamination.

POSES NO RISK TO HUMANS OR THE ENVIRONMENT

DOES NOT CREATE GERM RESISTANCE

BENEFITS

Disinfects in a simple and environmentally friendly manner: the product breaks down into water and oxygen.

Full spectrum of activity Bactericide, virucide, fungicide and sporicide as defined by current standards.

Uniform disinfection of all surfaces, including electronic ones, without corroding or oxidising.

Product is non-allergenic and poses no risk to humans or the environment.

The system is practical, economical and fast: 1 ml of product is enough to treat 1 m³.

The concept is manufactured in accordance with ISO 9001/13485 standards.

Complementary range: Insecticides for use with Nocospray®.
Our concept arose from using Nocospray® and Nocolyse® (the machine and the product, respectively) together to distribute a dry disinfectant fog.

This system can be used to treat the air and surfaces in a room automatically using a range of totally biodegradable hydrogen peroxide-based disinfectants.

**VERY EASY USE**

Simply enter the volume of the room to be treated.

Very little product required: 1ml of product is enough to treat 1m³.

No preparation necessary before treatment (except cleaning) and no action required after treatment (no need to wipe surfaces or air the room).

Treatment is in two stages: diffusion via Nocospray for a certain time, then contact time for the disinfectant.

Stops automatically.

Example of how to use: preventive treatment for a 50m³ room:
- Diffusion time: 3 min
- Contact time: 30 min
- Total time taken for disinfection: 33 min

**TECHNICAL CHARACTERISTICS**

Electric turbine: 1,100 watts.

Speed of rotation: 22,000 rpm.

Escape speed of fog: 80 m/sec.

Weight: 5.8 kg Easy to transport.

**VARIOUS OPTIONS ARE AVAILABLE TO MAKE THE SYSTEM ADAPTABLE TO ANY SITUATION**

3 models of Nocospray® available depending on the volume to be treated:
- From 10 to 250 m³
- From 20 to 500 m³
- From 40 to 1,000 m³

Available voltage: 115 V/230 V

Manufactured in accordance with ISO 9001.
**NOCOMAX®**

Our range of disinfectants can also be used with **Nocomax**, a device used for treating volumes between 500 and 20,000 m³.

### VERY EASY TO USE

Simply enter the volume of the room to be treated using the touchscreen.

- Delayed start option.
- Very little product required: 1 ml of product is enough to treat 1 m³.
- Detection system warns if the amount of product remaining is insufficient to treat the volume programmed.
- No preparation necessary before treatment (except cleaning) and no action required after treatment (no need to wipe surfaces or air the room).
- Treatment is in two stages: diffusion via **Nocomax** for a certain time, then contact time for the disinfectant.
- Stops automatically.
- Inbuilt traceability system.

Example of how to use: preventive treatment for a 500 m³ room:
- Diffusion time: 5 min
- Contact time: 60 min
- Total time taken for disinfection: 65 min

### TECHNICAL CHARACTERISTICS

- Electric turbine: 2,000 watts
- Speed of rotation: 22,000 rpm
- Escape speed of fog: 80 m/sec
- Empty weight: 49 kg
- Wheels make it easy to transport.

### RANGE OF DISINFECTANTS

- **NOCOLYSE®**
  - Disinfectant used for preventive treatments
- **NOCOLYSE® One Shot**
  - Disinfectant used for curative treatments.
- **NOCODOR®**
  - Disinfectant used to remove odours.
- **NOCOLYSE Food®**
  - Disinfectant for surfaces that come into contact with food.
- **OXYDOR®**
  - Deodoriser.

### RANGE OF INSECTICIDES

- **OXYPY®**
  - Treatment against flying and crawling insects.
- **MOXY®**
  - Anti-mosquito treatment.
- **OXYCAR®**
  - Anti-dust mite treatment.
- **OXYPY 4®**
  - Specific anti-bedbug treatment - Larvicide
- **OXYPY Food®**
  - Insecticide treatment adapted for the food industry.

### QUALITY MONITORING KIT

- **NOCOTEST®**
  - Colorimetric strips that detect and check hydrogen peroxide within the room treated.
- **NOCOBOX®**
  - Contact boxes to take samples from surfaces and show the presence of microorganisms.

**NOCOTEST®**

Can be used to treat areas from 500 to 20,000 m³.

- Available voltage: 115 V/230 V
- Manufactured in accordance with ISO 9001.

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Our concept arose from using Nocospray® and Nocolyte® (the machine and the product, respectively) together to distribute a dry disinfectant fog.

This system can be used to treat the air and surfaces in a room automatically using a range of totally biodegradable hydrogen peroxide-based disinfectants.

Nocolyte® is a ready-to-use hydrogen peroxide-based surface disinfectant, and must be used with Nocospray®/Nocomax® diffusion devices.

Nocolyte®, when diffused as a gas (particles 5μ in size), deactivates and destroys bacteria by modifying their membrane permeability using electrons created by OH- radicals.

The water present in the air can thus penetrate the bacteria, which are then destroyed by osmotic pressure.

NOCOLYTE® is 99.9% biodegradable, non-toxic, non-corrosive, leaves no residue and does not create germ resistance or allergies.

The full spectrum of activity (bactericide, virucide, sporicide and fungicide) according to standards:

- **NOCOLYSE®**
  - Disinfectant used for preventive treatments.
  - Effective against:
    - Staphylococcus aureus
    - Pseudomonas aeruginosa
    - Mycobacterium smegmatis
    - Candida albicans
    - Bacillus subtilis
    - Entérovirus Polio 1
    - Legionella pneumophila
    - H5N1

- **NOCOLYSE One Shot®**
  - Disinfectant used for curative treatments.
  - Effective against:
    - MRSA
    - Acinetobacter
    - Mycobacterium tuberculosis
    - Aspergillus niger
    - Adénovirus humain
    - Orthopox virus
    - Clostridium Difficile souche 027

- **NOCODOR®**
  - Disinfectant used to remove odours.

- **NOCOLYSE Food®**
  - Disinfectant for surfaces that come into contact with food.

- **OXYDOR®**
  - Deodouriser

**RANGE OF DISINFECTANTS**

**EFFECTIVE AGAINST:**

- Staphylococcus aureus
- Pseudomonas aeruginosa
- Mycobacterium smegmatis
- Candida albicans
- Bacillus subtilis
- Entérovirus Polio 1
- Legionella pneumophila
- H5N1

**QUALITY MONITORING KIT**

- **NOCOTEST®**
  - Colorimetric strips to check that the product has been distributed evenly within the room treated.

- **NOCOBOX®**
  - Contact boxes to take samples from surfaces and show the presence of microorganisms.
INSECTICIDES

Our concept arose from using Nocospray® and Nocolyse® (the machine and the product, respectively) together to distribute also a dry insecticide fog.

This system can be used to treat the air and surfaces in a room automatically using a range of totally biodegradable pyrethrin- and permethrin-based insecticides.

This range of insecticides, based on natural pyrethrins, is intended for interior use.

It is effective against all types of crawling and flying insects.

These insecticides are ready for use and must be used with the Nocospray®/Nocomax® diffusion devices.

Insecticides, diffused as a gas (particles 5μ in size), automatically destroy flying and crawling insects, parasites and larvae.

Their base active ingredients are Pyrethrin and Permethrin.

PYRETHRIN – INSTANT EFFECT

Pyrethrins are insecticides. There are both artificial pyrethrins (permethrin, phenothrin, depallethrin, esdepallethrin) and natural pyrethrins (extracted from the chrysanthemum plant).

Pyrethrins are used in treating lice and scabies. They are often used in combination with piperonyl butoxide, which increases their effectiveness.

PERMETHRIN – RESIDUAL EFFECT

Permethrin is a chemical insecticide of the pyrethrinoid family. The target of this insecticide is the central nervous system of insects.

Permethrin is an insecticide that is sprayed directly on clothes and on mosquito nets.

Permethrin kills or drives away insects (ants, mosquitoes, flies, lice, fleas, cockroaches, etc.) and arachnids (spiders, scorpions, itch mites, ticks, etc.). Aqueous solutions of permethrin can survive several wash cycles.

Permethrin is also commonly spread around homes to combat termites. It is also used as a spray, particularly by exterminators, to destroy wasps’ or ants’ nests in or near homes. Permethrin is also used to treat scabies.

PIPERONYL BUTOXIDE – CATALYST

Piperonyl butoxide increase the effectiveness of pyrethrin and permethrin.

RANGE OF INSECTICIDES

OXYPY®
- Treatment against flying and crawling insects.

MOXY®
- Anti-mosquito treatment.

OXYCAR®
- Anti-mite treatment.

OXYPY +®
- Specific anti-bedbug treatment.
- Larvicide.

OXYPY Food®
- Insecticide treatment adapted for the food industry.
Because each use may be unique, Oxy'Pharm® works with you to develop a usage protocol.

2 types of protocols:
- Preventive disinfection: daily disinfection, enabling the contamination level to be kept close to 0.
- Curative disinfection: shock disinfection for ad hoc treatments.

The most sensitive environments are those in the health sector, where the risk of contamination, specifically from nosocomial infections, is non-negligible. These sectors are particularly exposed to contamination by agents and to the proliferation and spread of those agents, by virtue of the high number of people they treat.

Furthermore, the development of ever-increasingly costly electronic equipment has resulted in great caution being exercised in use and when disinfecting: no corrosion or residues are tolerated in these circumstances, and this is the underlying principle behind our concept.

Le Nocolyse® is a hydrogen peroxide-based biodisinfectant, is 99.9% biodegradable and ready for use, and is used solely with the Nocospray® and Nocomax® distribution systems. It does not create germ resistance.

Diffusing it as a gas (as particles 5µ in size), makes it possible to deactivate and destroy bacteria by modifying the permeability of their membrane using electrons created by OH- radicals.

The water present in the air can thus penetrate the bacteria, which are then destroyed by osmotic pressure.

Validation of activity

**BACTERICIDE** in accordance with standards

According to a protocol issued under NF T 72 281 (may 2009):
- Aerial surface disinfection: *Staphylococcus aureus* / *Staphylococcus aureus* Methicillin resistant / *Pseudomonas aeruginosa* / *Mycobacterium smegmatis*.
- *Legionella pneumophila* / *Enterococcus hirae* / *Escherichia coli*.

**NF EN 1040:**
Basic bactericide activity. *Pseudomonas aeruginosa* / *Staphylococcus aureus*.

**NF EN 1276:**
Basic fungicidal activity. *Candida albicans* / *Aspergillus niger*.

**NF EN 1275:**
Basic fungicidal activity. *Candida albicans* / *Aspergillus niger*.

**NF EN 1650:**
Fungicidal and yeasticidal activity of disinfectants used in industry and in Collectivities. *Candida albicans* / *Aspergillus niger*.

**SPORICIDE** in accordance with standards

According to a protocol issued under NF T 72 281 (may 2009):
- Aerial surface disinfection: Spores of *bacillus subtilis* var. *niger*.

**NF EN 1275:**
Basic fungicidal activity. *Candida albicans* / *Aspergillus niger*.

**NF EN 1650:**
Fungicidal and yeasticidal activity of disinfectants used in industry and in Collectivities. *Candida albicans* / *Aspergillus niger*.

**VIRUCIDE** in accordance with standards

According to a protocol issued under NF T 72 281 (may 2009):
- Virucidal activity against vertebrate viruses. *Human adenovirus, Enteroxivirus Polio 1, Orthopox virus from vaccine and by extension Norwalk virus and influenza rhinovirus*.

**NF EN 1275:**
Basic fungicidal activity. *Candida albicans* / *Aspergillus niger*.

**NF EN 1650:**
Fungicidal and yeasticidal activity of disinfectants used in industry and in Collectivities. *Candida albicans* / *Aspergillus niger*.

**NOCOLYSE®** is 99.9% biodegradable, non-toxic, non-corrosive, leaves no residue and does not create germ resistance or allergies.
FOOD INDUSTRY

Our concept arose from using Nocomax® + Nocolyse® (the machine and the product, respectively) together to distribute a dry disinfectant fog.

It enables the air and surfaces in a room to be treated automatically using a range of fully biodegradable hydrogen peroxide-based disinfectants.

The NOCOMAX®/NOCOLYSE® system, which disinfects surfaces automatically, can be used in any environment where it is important to achieve a minimum infection risk (M.I.R.).

The purpose of disinfection is to render work materials and work surfaces free from bacteria. It is thus of fundamental importance for industry, both for those who work in industry and in terms of protecting the end product, and thus the consumer.

Disinfecting effectively and regularly significantly reduces the presence of pathogens. Disinfecting all work surfaces within these industries is therefore essential in order to keep the risk of infection at its strict minimum.

The aim of this type of disinfection is to prevent any risk of the final product being contaminated, which could jeopardise end consumers’ health. Since these environments are required to meet health and sanitation standards and are subject to regular checks by the relevant authorities, it is crucial for industries, and especially for the food sector, to ensure that microbial contamination remains within minimum safe levels and below the limits imposed by law.

Disinfection is a key stage in the food industry, which reflects the increasing importance attached to food safety issues in modern society.

Thanks to its bactericidal, fungicidal, sporicidal and virucidal action, our procedure is effective even against the main causes of contamination in the food industry.

DISTRIBUTION OF THE CAUSES OF CONTAMINATION IN THE FOOD INDUSTRY

Validation of activity BACTERICIDE in accordance with standards:

NF EN 1276 : Bactericidal activity of disinfectants used in industry and in Collectivities. Staphylococcus aureus / Pseudomonas aeruginosa / Escherichia coli / Enterococcus hirae.

Validation of activity FONGICIDE and LEVURICIDE in accordance with standards:

NF EN 1650 : Fungicidal and yeasticidal activity of disinfectants used in industry and in Collectivities. Candida albicans / Aspergillus niger.

USAGE PROTOCOLS

Because each company has to deal with its own type of contamination, Oxy’Pharm can provide solutions tailored to meet your needs and can draw up personalised disinfection protocols.

2 types of protocols:

- Preventive disinfection: Daily disinfection, enabling the contamination level to be kept close to 0.
- Curative disinfection: Shock disinfection for ad hoc treatments.
RANGE OF DISINFECTANTS

Disinfectant used for preventive treatments

- NOCOLYSE®
- NOCODOR®

Disinfectant used for curative treatments

- NOCOLYSE One Shot®
- NOCODOR®

Disinfectant used to remove odours

- NOCOLYSE Food®

Disinfectant for surfaces that come into contact with food

- OXYDOR®

Deodoriser

RANGE OF INSECTICIDES

Treatment against flying and crawling insects

- OXYPY®

Anti-mosquito treatment

- MOXY®

Anti-dust mite treatment

- OXYCAR®

- Specific anti-bedbug treatment

- Larvicide

Insecticide treatment adapted for the food industry

- OXYPY Food®

RANGE OF MACHINES

- NOCOSPRAY®
  Can be used to treat areas from 10 to 1,000 m³

- NOCOMAX®
  Can be used to treat areas from 500 to 20,000 m³

QUALITY MONITORING KIT

Colorimetric strips that detect the presence of hydrogen peroxide to check that the product has been distributed evenly within the room treated

- NOCOTEST®

Contact boxes to take samples from surfaces and show the presence of microorganisms

- NOCOBOX®

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