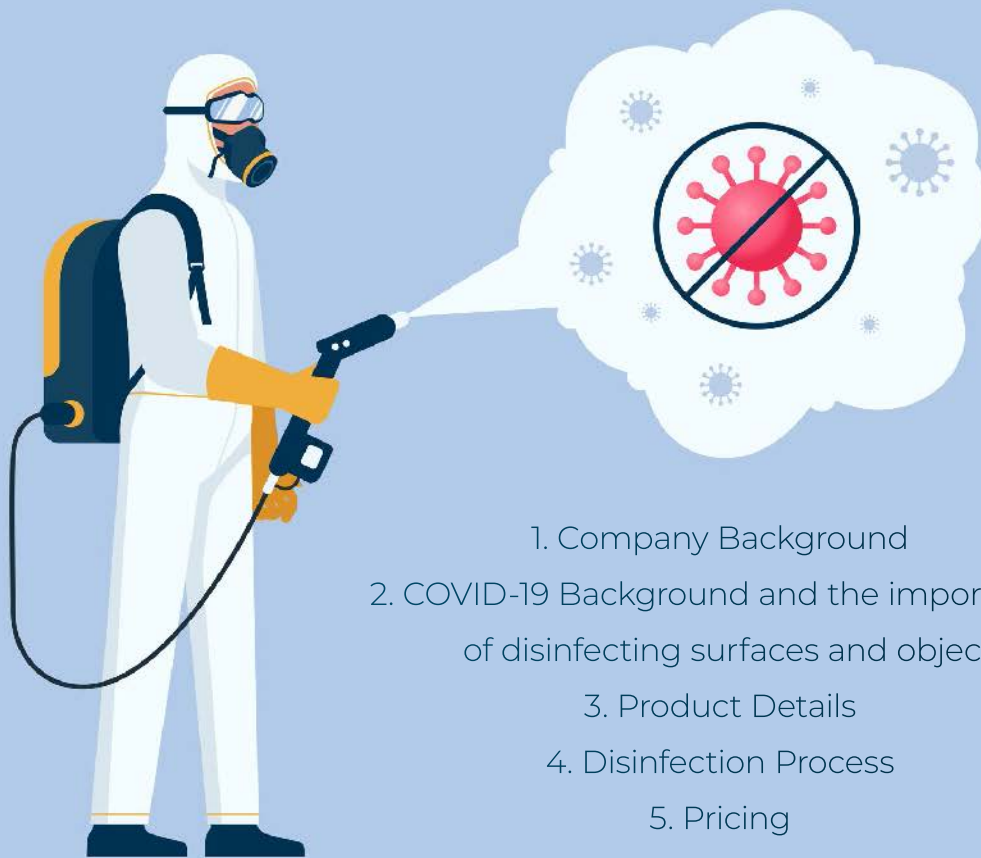




# LOGAN MEDICAL & SURGICAL

## COVID-19 DISINFECTION & CLEANING SERVICES

[www.sacoronavirus.co.za](http://www.sacoronavirus.co.za)



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Your COVID-19 Deep  
Cleaning solution.

**STOP**  
**COVID-19**

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ISO 13485: 2016 (MANUFACTURER) | ISO 9001:2015 | SAHPRA LICENSED | LEVEL 1 BEE

# 1. Company Background

## **Our Story**

Logan Medical and Surgical (Pty) Ltd (LMS) is a South African based company established in 2003. Its headquarters are based in Durban and it also has branches in Johannesburg and Cape Town. The company has expanded from its roots of primarily manufacturing hospital consumables, to the manufacturing, sourcing and supply of various healthcare products and services within the medical, surgical, pharmaceutical and chemical sectors.

## **What do we do?**

LMS and its group provides hospitals, clinics, private practitioners and wholesalers with quality healthcare products and services that truly touches the heart, in more ways than one.

We have extensive experience in manufacturing high quality surgical/medical/chemical products. We are a key supplier in categories such as theatre consumables, point of care, sterilization, wound care, syringes and needles, orthopedic care, gynecology, maternity, medical equipment, disinfectants, cleaning materials, and more. We ensure that the products and services that we provide are of the highest quality and are cost effective for our customers.

## **Our certification**

LMS currently holds ISO9001 and ISO13485 certification, and we are SAHPRA licensed pharmaceutical wholesaler, and a SAHPRA licensed medical device manufacturer and distributor.

## **Our experience in disinfection services**

We have the experience of disinfecting public spaces such as hospitals, clinics, public offices, restaurants, schools and transport facilities. To date we have disinfected over 100,000sqm of space.

## 2. COVID-19 Background and the importance of disinfecting surfaces and objects

**Coronavirus (COVID-19)** is a highly infectious disease, rapidly spreading from Wuhan in China in December 2019, to over 200 countries and territories over three months. With no vaccine or specific treatment, the main advice to prevent COVID-19 is to practice stringent hygiene measures.

This includes cleaning and disinfecting surfaces and objects that people frequently touch. Even when restrictions are lifted, there are likely to be more waves of coronavirus infections as people come into contact with others, so we all have to stay vigilant and continue using hygienic practices.

The South African lockdown will help flatten the curve as a result of social distancing. As COVID-19 is extremely contagious, the right cleaning agents and sanitisers will play an extremely important role in the next months and possibly years to come. n

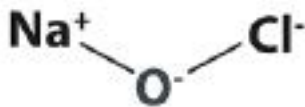
- Scientists are still trying to understand SARS-CoV-2, the cause of the COVID-19 pandemic.
- It is believed to survive for 3 hours in the air, 4 hours on copper, 24 hours on cardboard and 48-72 hours on plastic and stainless steel.
- Cleaning for health has never been more vital to our businesses and communities
- Safety of the workers and staff is as critical as the level of cleanliness and the care we are being asked to undertake
- What we do in the next few weeks and months will make the difference

# 3. Product Details

The contagious nature of COVID-19 necessitates the use of suitable disinfectants and cleaning materials. Sodium hypochlorite is the active ingredient of bleach and it is used widely in institutional, industrial and domestic cleaning agents. It is also used in water treatment and disinfection. Sodium hypochlorite is the main ingredient used in our disinfecting devices.

Sodium hypochlorite has been found to be efficacious at destroying the COVID-19 virus (Ciric, 2020). It works by attacking and killing the protein and ribonucleic acid (RNA) which is responsible for producing more of the virus causing particles (Ciric, 2020).

## SODIUM HYPOCHLORITE FORMULA STRUCTURE



The World Health Organization (WHO) has recommended using a 0.1% sodium hypochlorite solution (1000 ppm) for disinfecting non-porous surfaces that may have been contaminated with COVID-19 (World Health Organization, 2020). WHO stated that a dilution of one part household bleach containing 5% sodium hypochlorite to fifty parts of water should be used in order to produce a 0.1% sodium hypochlorite solution (World Health Organization, 2020).

This was further reiterated by the Centers for Disease Control and Prevention (CDC) which recommends disinfection of hard surfaces with a solution of at least 1000ppm sodium hypochlorite (CDC, 2020).

We follow the guidelines recommended by the World Health Organization (WHO) at all times.

# 4.1. Disinfection Process

Sodium hypochlorite solutions have a limited shelf life which is dependent on the following factors:

1. pH of the solution
2. Hypochlorite concentration
3. Exposure to light
4. Concentration of impurities
5. Temperature of the solution

Sodium hypochlorite is also corrosive to most metals. Therefore, it is vital that the process of producing a 0.1% sodium hypochlorite solution is done in a controlled environment where these factors can be monitored. It is important to take into consideration the distance from the factory to the site requiring disinfection. This will determine whether the disinfectant solution will be diluted on site or at the factory due to the limited shelf life of concentrated sodium hypochlorite. Personal protective equipment in accordance with safety and health regulations will be worn when preparing and spraying the disinfectant. The appropriate PPE and standards are followed at all times:

- Eye goggles - EN 166
- Half face respirator - EN 140
- Respirator cartridge - EN 143
- Coverall - EN 14126 (Resistant to infective agents)
- Face shield - Resistant to chemical splash back
- Gloves - Chemical resistant gloves
- Boots - Chemical resistant boots

Health Care Risk Waste (HCRW) management of PPE in accordance with SANS 10248-1 is vital to ensure that the virus is not spread between sites. Each team member will disinfect their PPE before placing them into plastic bags and cardboard boxes separating the reusable and non-reusable PPE. They will bring these boxes back to the factory for proper storage and disposal using Compass Medical Waste Services which follows disposal procedures based on non-infected waste as well as waste that has been exposed to sites with a potential or confirmed COVID-19 case. These guidelines and requirements for HCRW can be made available upon request. The procedure for proper disposal of used PPE can be made available upon request. .

The sodium hypochlorite disinfectant solution will be sprayed onto the non-porous surfaces from mobile units as well as portable pressure sprayer backpacks and fogging units. The minimum contact time for this surface disinfectant is ten minutes (WHO, 2016).

When completed, you can be sure that cleaning and disinfection have been carried out using approved safety procedures, tools and products that are compliant with safety regulations. The completion report we submit will help to reassure your staff, customers and visitors that the premises are safe again. Ongoing cleaning regimes will provide further reassurance that facilities managers are maintaining high standards of hygiene on their premises.

## 4.2. Disinfection Process

### MOBILE MIXING TRAILER



Depending on the size, location and number of sites, we may need to make use of our mobile mixing trailer which allows us to mix our concentrated solution directly on site.

## 4.3. Disinfection Process

**WE MAKE USE OF HIGH QUALITY PORTABLE PRESSURE SPRAYER BACKPACKS FOR DISINFECTING**



Our highly trained team in the field

**OUR HIGH OUTPUT AND HIGH QUALITY PORTABLE FOGGING UNIT**



## 5. PRICING & CONTACT INFO

The pricing will be determined on the location, size and number of sites to be disinfected. Please send us your detailed disinfection requirements for us to furnish a quotation.

To request a quotation please contact:

**preston@loganmed.co.za**

**Tel: +27 31 500 2200**

**Fax: +27 31 500 4412**

If you have any questions or comments regarding our disinfection services, or if you would like to request a copy of the guidelines and requirements for HCRW and our disposal procedures of used PPE, please contact:

**preston@loganmed.co.za**

**vandana@loganmed.co.za**

**Tel: +27 31 500 2200**

**Fax: +27 31 500 4412**





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