paanitech
INDIA PVT LTD

MANUFACTURER OF FDA APPROVED COVID-19 DISINFECTANT

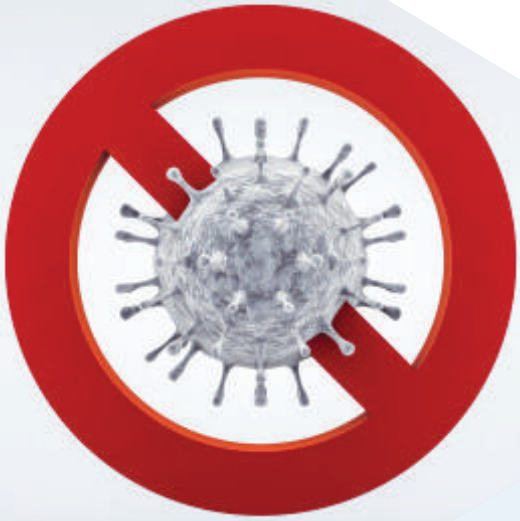
WE PROVIDE **DISINFECTION SOLUTIONS** FOR YOUR HOME & BUSINESS

www.paanitech.com

Your trusted partner!

Paanitech India Private Limited is a six-year-old organization which specializes in manufacturing of disinfectants along with water treatment chemicals. All the disinfectants are manufactured in an FDA (Food and Drug Administration) approved facility in Bahadurgarh, Haryana.

We are proud to state that all the raw materials for our disinfectants are sourced locally and we are an ardent supporter of the "Make in India" campaign.



Our goal is to provide
Economy with Quality

Our prime focus is to provide households and businesses with the best quality and cost-effective disinfectants to fight COVID-19.

We wish to play a significant role in providing FDA approved disinfectants across all countries at an affordable price.

We also believe in constantly innovating and investing in R&D to develop more disinfectants while complying with the government norms.

All our disinfectants are environmentally friendly and safe to use and can also be supplied in customized packing sizes.

BENZALKONIUM CHLORIDE
SURFACE DISINFECTANT

HM 15™

QAC BASED SURFACE DISINFECTANT

- Cost effective FDA approved surface disinfectant
- Composition approved by Food and Drug Administration (Govt of India) Manufacturing License No. 664-OSP (H)
- Provides excellent disinfection against corona virus
- Non-corrosive unlike hypo/chlorine-based disinfectants
- Odourless and no harmful side effects unlike hypo/chlorine-based disinfectants
- Colourless liquid which leaves no stains on clothes
- To be used for fogging, spraying, surface cleaning, floor mopping
- Dilute 50 ml of HM 15 in 1 liter RO water
- 1 litre of HM 15 is enough for disinfection of an area of 5000 square feet
- Available in different pack sizes of 5/20/50 litres
- This disinfectant can be used across: factories, hospitals, schools, banks, enterprises and institutions, hotels and clubs, construction sites, shopping malls, supermarkets, exhibitions, stations, airports & other transportation facilities, AHUs, industrial applications, housing societies, municipalities, disinfection tunnels and fogging machines.

COMPARISION OF DIFFERENT **SURFACE DISINFECTANTS**

	PAANITECH DISINFECTANTS	SODIUM HYPO CHLORITE/CHLORINE BASED DISINFECTANTS	ALCOHOL BASED DISINFECTANTS
Main Ingredients	Benzalkonium Chloride	Sodium hypochlorite 5%, Sodium hypochlorite 10%, Chlorine based powders	Ethanol, IPA (Iso Propyl Alcohol)
FDA (Food and Drug Administration) Approval	Yes	No	Yes
Smell/Odour	No smell/Odourless	Very pungent smell/strong chlorine like odour	Strong smell of alcohol unless perfumed
Dilution in water for making ready to use solution	HM 15 – 1:20 HM 35 – 1:40	Sodium Hypochlorite 5% - 1:5 Sodium Hypochlorite 10% - 1:10	Ready to use
Flammable	No	No	Yes
Can be used for spraying	Yes	Yes	No since it is flammable
Effect on skin	No effect at recommended dilution	Causes burning sensation on skin	No effect
Effect on metal	No effect on metal	Causes severe corrosion on metal	No effect on metal
Effect on clothes	No effect on clothes	Causes discoloration of clothes	No effect on clothes
Effect on paint/wooden varnish	No effect	Damages painted items and wooden varnishes	Damages painted items if used in excess
Shelf life	12 months	3 months since the concentration decreases if not stored properly	12 months
Color	Colorless	Light Yellow solution or white powders	Varies as per manufacturer
Cost Effective	Yes	Yes	No

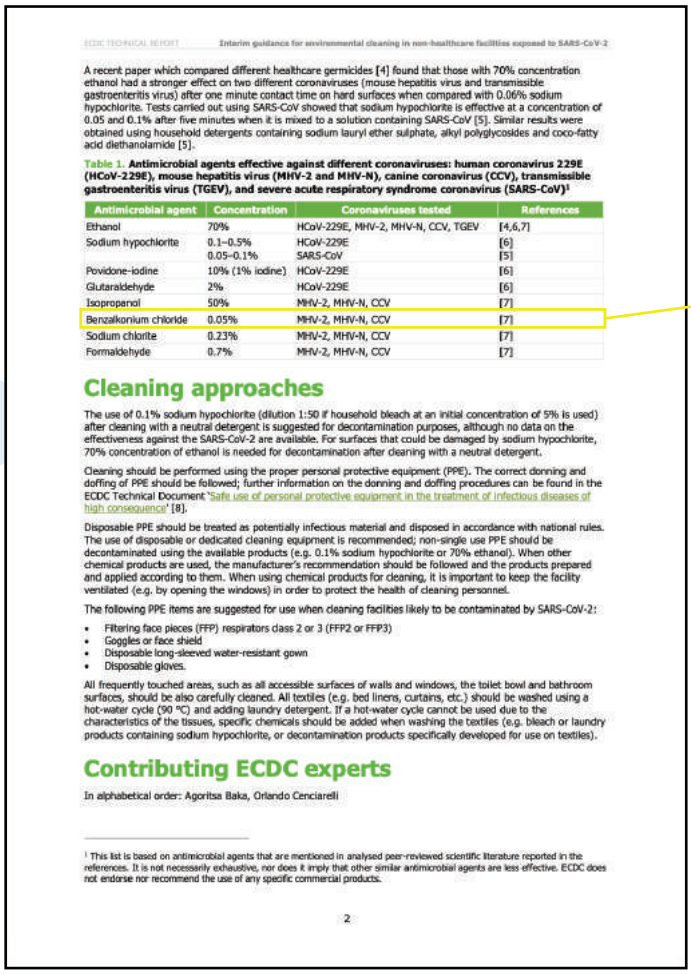
BENZALKONIUM CHLORIDE
SURFACE DISINFECTANT

HM 35™

QAC BASED SURFACE DISINFECTANT

- Cost effective FDA approved surface disinfectant
- Composition approved by Food and Drug Administration (Govt of India) Manufacturing License No. 664-OSP (H)
- Provides excellent disinfection against corona virus
- Non-corrosive unlike hypo/chlorine-based disinfectants
- Odourless and no harmful side effects unlike hypo/chlorine-based disinfectants
- Colourless liquid which leaves no stains on clothes
- To be used for fogging, spraying, surface cleaning, floor mopping
- Dilute 25 ml of HM 35 in 1 liter RO water
- 1 litre of HM 35 is enough for disinfection of an area of 10,000 square feet
- Available in different pack sizes of 5/20/50 litres
- This disinfectant can be used across: factories, hospitals, schools, banks, enterprises and institutions, hotels and clubs, construction sites, shopping malls, supermarkets, exhibitions, stations, airports & other transportation facilities, AHUs, industrial applications, housing societies, municipalities, disinfection tunnels and fogging machines.

BENZALKONIUM CHLORIDE BASED
SURFACE DISINFECTANTS APPROVALS



ECDC TECHNICAL REPORT — Interim guidance for environmental cleaning in non-healthcare facilities exposed to SARS-CoV-2

A recent paper which compared different healthcare germicides [4] found that those with 70% concentration ethanol had a stronger effect on two different coronaviruses (mouse hepatitis virus and transmissible gastroenteritis virus) after one minute contact time on hard surfaces when compared with 0.06% sodium hypochlorite. Tests carried out using SARS-CoV showed that sodium hypochlorite is effective at a concentration of 0.05 and 0.1% after five minutes when it is mixed to a solution containing SARS-CoV [5]. Similar results were obtained using household detergents containing sodium lauryl ether sulphate, alkyl polyglycosides and coco-fatty acid diethanolamide [5].

Table 1. Antimicrobial agents effective against different coronaviruses: human coronavirus 229E (HCoV-229E), mouse hepatitis virus (MHV-2 and MHV-N), canine coronavirus (CCV), transmissible gastroenteritis virus (TGEV), and severe acute respiratory syndrome coronavirus (SARS-CoV)[1]

Antimicrobial agent	Concentration	Coronaviruses tested	References
Ethanol	70%	HCoV-229E, MHV-2, MHV-N, CCV, TGEV	[4,6,7]
Sodium hypochlorite	0.1–0.5% 0.05–0.1%	HCoV-229E SARS-CoV	[6] [5]
Povidone-iodine	10% (1% iodine)	HCoV-229E	[6]
Glutaraldehyde	2%	HCoV-229E	[6]
Isopropanol	50%	MHV-2, MHV-N, CCV	[7]
Benzalkonium chloride	0.05%	MHV-2, MHV-N, CCV	[7]
Sodium chlorite	0.23%	MHV-2, MHV-N, CCV	[7]
Formaldehyde	0.7%	MHV-2, MHV-N, CCV	[7]

Cleaning approaches

The use of 0.1% sodium hypochlorite (dilution 1:50 if household bleach at an initial concentration of 5% is used) after cleaning with a neutral detergent is suggested for decontamination purposes, although no data on the effectiveness against the SARS-CoV-2 are available. For surfaces that could be damaged by sodium hypochlorite, 70% concentration of ethanol is needed for decontamination after cleaning with a neutral detergent.

Cleaning should be performed using the proper personal protective equipment (PPE). The correct donning and doffing of PPE should be followed; further information on the donning and doffing procedures can be found in the ECDC Technical Document "Safe use of personal protective equipment in the treatment of infectious diseases of high consequence" [8].

Disposable PPE should be treated as potentially infectious material and disposed in accordance with national rules. The use of disposable or dedicated cleaning equipment is recommended; non-single use PPE should be decontaminated using the available products (e.g. 0.1% sodium hypochlorite or 70% ethanol). When other chemical products are used, the manufacturer's recommendation should be followed and the products prepared and applied according to them. When using chemical products for cleaning, it is important to keep the facility ventilated (e.g. by opening the windows) in order to protect the health of cleaning personnel.

The following PPE items are suggested for use when cleaning facilities likely to be contaminated by SARS-CoV-2:

- Filtering face pieces (FFP) respirators class 2 or 3 (FFP2 or FFP3)
- Goggles or face shield
- Disposable long-sleeved water-resistant gown
- Disposable gloves.

All frequently touched areas, such as all accessible surfaces of walls and windows, the toilet bowl and bathroom surfaces, should be also carefully cleaned. All textiles (e.g. bed linens, curtains, etc.) should be washed using a hot-water cycle (90 °C) and adding laundry detergent. If a hot-water cycle cannot be used due to the characteristics of the tissues, specific chemicals should be added when washing the textiles (e.g. bleach or laundry products containing sodium hypochlorite, or decontamination products specifically developed for use on textiles).

Contributing ECDC experts

In alphabetical order: Agoritsa Baka, Orlando Cenciarelli

[1] This list is based on antimicrobial agents that are mentioned in analysed peer-reviewed scientific literature reported in the references. It is not necessarily exhaustive, nor does it imply that other similar antimicrobial agents are less effective. ECDC does not endorse nor recommend the use of any specific commercial products.

2

European Centre for Disease Prevention and Control (ECDC) Technical Report for Environmental Cleaning

2. Outdoor areas

Outdoor areas have less risk then indoor areas due to air currents and exposure to sunlight. These include bus stops, railway platforms, parks, roads, etc. Cleaning and disinfection efforts should be targeted to frequently touched/contaminated surfaces as already detailed above.

3. Public toilets

Sanitary workers must use separate set of cleaning equipment for toilets (mops, nylon scrubber) and separate set for sink and commode). They should always wear disposable protective gloves while cleaning a toilet.

Areas	Agents / Toilet cleaner	Procedure
Toilet pot/ commode	Sodium hypochlorite 1%/ detergent Soap powder / long handle angular brush	• Inside of toilet pot/commode: • Scrub with the recommended agents and the long handle angular brush. • Outside: clean with recommended agents; use a scrubber.
Lid/ commode	Nylon scrubber and soap powder/detergent 1% Sodium Hypochlorite	• Wet and scrub with soap powder and the nylon scrubber inside and outside. • Wipe with 1% Sodium Hypochlorite
Toilet floor	Soap powder /detergent and scrubbing brush/ nylon broom 1% Sodium Hypochlorite	• Scrub floor with soap powder and the scrubbing brush • Wash with water • Use sodium hypochlorite1% dilution
Sink	Soap powder / detergent and nylon scrubber 1% Sodium Hypochlorite	• Scrub with the nylon scrubber. • Wipe with 1% sodium hypochlorite
Showers area / Taps and fittings	Warm water Detergent powder Nylon Scrubber 1% Sodium Hypochlorite/ 70% alcohol	• Thoroughly scrub the floors/tiles with warm water and detergent • Wipe over taps and fittings with a damp cloth and detergent. • Care should be taken to clean the underside of taps and fittings. • Wipe with 1% sodium hypochlorite/ 70% alcohol
Soap dispensers	Detergent and water	• Should be cleaned daily with detergent and water and dried.

➢ 70% Alcohol can be used to wipe down surfaces where the use of bleach is not suitable, e.g. metal. (Chloroxylenol (4.5-5.5%)/ Benzalkonium Chloride or any other disinfectants found to be effective against coronavirus may be used as per manufacturer's instructions)
➢ Always use freshly prepared 1% sodium hypochlorite.

Guidelines on Disinfection of Common Public Places including Offices by Ministry of Health & Family Welfare (Government of India)

Registered Office
2, Sharda Niketan,
Pitampura, New Delhi,
110034

UK Office
20 Farmfield Road,
Bromley, BR1 4NG,
United Kingdom

info@paanitech.com

www.paanitech.com