

vooki

Premium Products Range

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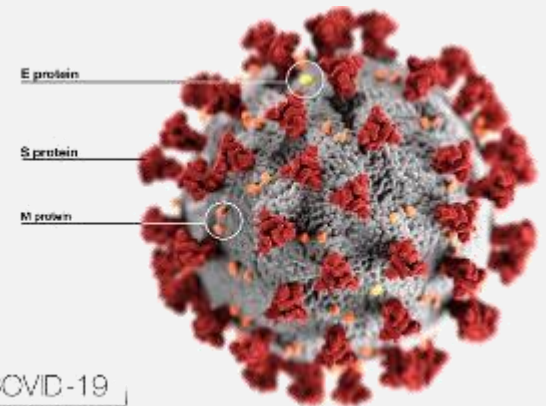
PREFACE

Note on COVID-19:

Corona viruses (Covid-19) belongs to the enveloped virus type, which spreads through physical transmission





- (a) By coughing or sneezing of infected person to person
- (b) Physical contact with virus contaminated hard surface.

Coronaviruses are known to cause illness ranging from the common cold to more severe respiratory diseases such as Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS).



Main Challenge - Asymptomatic Transmission

Types of disease causing germs and its effects on Mankind

Type of pathogen	Description	Human diseases caused by pathogens of that type
Bacteria	 Single-celled organisms without a nucleus	Strep throat, staph infections, tuberculosis, food poisoning, tetanus, pneumonia, syphilis
Viruses	 Thread-like particles that reproduce by taking over living cells	Common cold, flu, genital herpes, cold sores, measles, AIDS, genital warts, chicken pox, small pox
Fungi	 Simple organisms, including mushrooms and yeasts, that grow as single cells or thread like filaments	Ringworm, athlete's foot, tinea, candidiasis, histoplasmosis, mushroom poisoning
Protozoa	 Single-celled organism with a nucleus	Malaria, "traveler's diarrhea" giardiasis, trypanosomiasis ("sleeping sickness")

Coronaviruses (Covid-19) are enveloped viruses and the normal pattern of disinfectant resistance is as follows:

Gram negative bacteria < Gram positive bacteria
< Enveloped viruses < Vegetative fungi
< Fungal spores < Non-enveloped viruses
< Mycobacterium < bacterial spores

Coronaviruses are believed to be one of the least resistant micro-organisms to disinfectants. However there is no substantial evidence produced as proof.

Know the difference between Cleaning, Sanitizing & Disinfectant

CLEANERS, SANITIZERS, DISINFECTANTS, VIRUCIDES AND STERILANTS

CLEANER	SANITIZER	DISINFECTANT	VIRUCIDE	STERILANT
AIDS IN SOIL REMOVAL	REDUCES NUMBER OF BACTERIA	KILLS FUNGI, BACTERIA AND VIRUSES	KILLS VIRUSES	ELIMINATES ALL FUNGI, BACTERIA, VIRUSES AND SPORES
				
A cleaner simply aids in removing soil from a surface. Although cleaning does remove germs from surfaces- it doesn't kill them.	A sanitizer lowers the number of bacteria on surfaces to levels that are considered safe by public health organizations. These products tend to be faster and safer than disinfectants, but disinfectants usually have broader kill claims.	A disinfectant kills infectious fungi, bacteria and viruses (but not bacterial spores) on hard environmental surfaces.	A virucide destroys or irreversibly inactivates viruses in the inanimate environment.	A sterilant is used to destroy or eliminate all forms of microbial life including: <ul style="list-style-type: none">- Fungi- Viruses- All forms of bacteria and their spores



Our Response to the new challenge

We as a company wants to focus on Hand and Surface hygiene, which along with right protocol are the need of the hour.

We are providing disinfecting/sanitizing solution to:

(i) Hand Hygiene (ii) Surface Hygiene

OUR SAFE & EFFECTIVE SANITIZER & DISINFECTANT



HAND SANITIZER



GUARD L37



ELECTRONICS /
ELECTRICAL



DISINFECTANT cum
CLEANER



OUTDOOR AREAS



INDOOR AREAS



DIRECT APPLICATION
AREAS



VOOKIFIED is the new synonym for germ free spotless cleaning done. This seal poster is given to the spots/ premise where vooki products are used for housekeeping. When we deliver spotless cleaning and germ free, we mark that spot as 'VOOKIFIED'.

HAND HYGIENE PRODUCTS

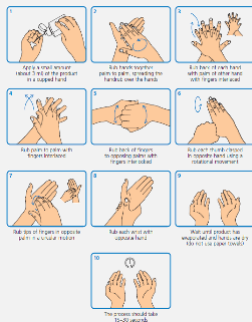
- (a) Hand Sanitizer
- (b) Antimicrobial Hand Wash (to be launched soon)

vooki Hand Sanitizer Liquid is an alcohol based hand rub that kills 99.9% disease spreading germs* like microbial bacteria, fungi, and viruses or stops their growth. It do not dry down or irritates your palms, rather it keeps your hands soft and gentle.

- Kills 99.9% Germs*
- WHO approved formulation
- Skin Safe
- Instant dry. No Stickiness
- Mild Fragrance

Application:

Alcohol handrub hand hygiene
technique – for visibly clean hands



HAND SANITIZER

Available Pack Size: 5 Ltr | 25 Ltr | 50 Ltr | 200 Ltr

Product Shelf Life: 36 Months

Basics of Surface Hygiene

In surface disinfection of hard non-porous surface, it is important to understand the following:

- (a) Concentration of active ingredient (in diluted form)
- (b) Contact time (duration for the solution to dry completely)
- (c) Exposure level to human

Concentration and contact time are inversely proportional
Concentration and Exposure level are directly proportional

We need to balance concentration, contact time and exposure level.

We at vooki, have designed all our products based on US Environmental protection Agency (EPA) recommendation, well taking into account.

Note: We are not in the business of fumigation using methyl bromide and phosphine.

Presenting Our Indigenously Developed SAFE & EFFECTIVE DISINFECTANTS

- vooki GUARD **P60**
- vooki DISINFECTANT **CLEANER**
- vooki ELECTRONIC COMPONENT CLEANER
- vooki DISINFECTANT **L30**
- vooki DISINFECTANT **L15**
- vooki GUARD **L37**

vooki GUARD P60

vooki GUARD P60, a formulation based on strong oxidizing biocide is 99.9% efficient in providing rapid biocidal with synergistic antimicrobial activity at ambient or cold temperatures even at relatively low concentrations. It is effective against a wide spectrum of microbiological contaminations including aerobic and anaerobic bacteria and their spores; yeasts, moulds, fungi and their spores, and viruses.

vooki GUARD P60 is developed to meet **EN 14476:2013** norms at 20°C with a contact time of 5 minutes under both clean & dirty conditions at a level of 3000 ppm. **EN 14476:2013** test is done on viruses like Poliovirus, Adenovirus, Murine norovirus (MNV) and Influenza type virus which are thought to be tougher strains than COVID-19.

Mechanism of action

- Denature proteins and lipids ; Sensitive sulfhydryl and sulfur bonds in proteins, enzymes and other metabolites gets ruptured and disorganize the cell membrane
- Reacts with double bonds and impede molecular function
- Disrupt balance of electrons in cells and cause microbe function to be inactive
- Disrupts the chemiosmotic function of the lipoprotein cytoplasmic membrane and transport processes through rupture or dislocation of the cell walls.

Usage instruction and Dosage norms:

- Disinfectant should contact the surfaces for 5 to 30 minutes depending on the degree of residual soiling and the class of microbial contamination. Aerobic bacteria requires lower concentrations and shorter contact times while fungi requires more concentration & longer contact time.
- 80 to 150 ppm of vooki GUARD P60 is sufficient to act as efficient disinfectant at normal condition.
- It inactivates gram positive and gram-negative bacteria, fungi and yeast in <5 min at <100 ppm.
- In the presence of organic matter 200 to 500 ppm is required.
- For viruses, the dosage range is wide 12 to 2250 ppm.
- With poliovirus, inactivated in yeast extract in 15 min with 1500 to 2250 ppm.
- Bacterial spores in suspension are inactivated in 15 seconds to 30 min with 500 to 10000 ppm (0.05 to 1%)
- Working solutions should be used at ambient/warm (20 – 40 deg C) conditions
- It must not be added to other chemicals or formulations.

Salient Features

- Kills 99.9% germs*
- 24 HOURS GERM PROTECTION[^]
- EN Standard-14476.2013
- Biodegradable
- Effective compared to Bleaching powder
- Effectively works on Organic matters
- Less odour
- Leaves no Residue after usage
- Can be used for Food contact applications
- Works effectively on both clean and unclean surfaces



**** With regard to enveloped virus, vooki GUARD P60 is efficient even in presence of organic matters including blood, food particles, factory oils and other soils compared to other disinfectants which have no efficacy to disinfect in presence of organic matters.**

Comparative advantages of vooki GUARD P60 with Chlorine based disinfectant

PROPERTY	VOOKI DISINFECTANT	CHLORINE BASED DISINFECTANT
EFFECTIVE AGAINST	BACTERIA, FUNGI, VIRUSES, MYCOBACTERIUM TUBERCULOSIS & SPORES EFFECTIVE IN BIO FILMS	BACTERIA, FUNGI, VIRUSES SPORES ONLY NOT EFFECTIVE IN BIO FILMS
BIODEGRADABILITY	BIODEGRADABLE; NO HARMFUL DECOMPOSITION PRODUCTS RESULT AFTER ITS USAGE; RAPID DEGRADATION IN THE ENVIRONMENT AND LOW RESIDUAL AQUATIC TOXICITY	RELEASES TOXIC CHLORINE AND OTHER CHLORINE DERIVATIVES. IT CAUSES AOX (ABSORBABLE HALOGENATED ORGANIC COMPOUNDS) SUCH AS OF CHLORINATED DISINFECTION BYPRODUCTS (DPBS), TRIHALOMETHANES (THMS) AND HALOACETIC ACIDS (HAAS),
ODOUR AND IRRITATION	LESS ODOUR AND LESS IRRITANT	HIGH ODOUR AND HIGH IRRITANT
RELATIVELY INSENSITIVE TO	RELATIVE INSENSITIVITY TO ORGANIC LOADING AND MAJOR SOILING SUCH AS ADHERENT GREASE, FATS, OILS, PROTEIN, STARCH, SUGAR, ANIMAL OR VEGETABLE MATTER AND THE PRESENCE OF AMMONIA, NITRITE AND PHOSPHATE HIGHER DOSAGE MAY BE REQUIRED BASED ON SEVERITY OF MICROORGANISM OR VIRUS	ORGANIC MATERIAL SUCH AS FECES OR BLOOD INACTIVATE CHLORINE BASED DISINFECTANTS, THEREFORE, SURFACES MUST BE CLEANED BEFORE THEIR USE
CORROSIVE NATURE	VOOKI DISINFECTANT PASSIVATES STAINLESS STEELS; NON CORROSIVE TO MOST OF THE METALS; MILD STEEL AND GALVANIZED STEEL MAY BE AFFECTED AT HIGH TEMPERATURE	HIGHLY CORROSIVE TO METAL AND SO EXCESS DOSAGE IS NOT RECOMMENDED
TOXIC NATURE	LESS TOXIC;	SKIN AND RESPIRATORY IRRITANT. BURNING PAIN, INFLAMMATION AND BLISTERS
STABILITY	EXCELLENT	DEPENDS ON LIGHT AND TEMP. NOT STABLE > 60 DEG C
NO RINSE APPLICATION	NO NEED TO RINSE ONCE THE MATERIAL IS TREATED WITH THIS DISINFECTANT	SHOULD BE RINSED WELL AFTER THE TREATMENT TO REMOVE THE RESIDUAL CONTENTS

Areas of Applications

- Used as a cleaning agent in addition to a cold sterilant and disinfectant; *It is highly effective oxidizing agent for removal of mold, bacterial stains and virus*
- Factory units, Garden area, Common outdoor areas of commercial institutions etc.

- **Hard Surfaces**

It may be sprayed on walls, floors to kill surface born microbes. Used as disinfectant for outdoor & indoor on hard surfaces including agriculture premises, food establishments and home bathrooms

- **Health care industry**

It is applied for the disinfection / sterilization of medical supplies such as surgical and dental instruments etc.



Dilution Ratio:

- On non-critical conditions 1:500
- On critical conditions where short contact time is required 1:300

Recommended dosage: 760 to 1250 ppm depending on the degree of residual soiling and the class of microbial contamination.

Contact Time: After applying allow to dry for 20 minutes for better disinfection

Frequency of use: For healthy germ free environment, use every day

Caution:

- Not meant for human contact. In case of contact and irritation persists, please contact doctor
- Recommend to use either 1 hour before opening premise or after closure of office hours
- Not to be used on aluminium, copper and fabrics
- **At the time of spraying, the user must wear standard Butyl II gloves or any good synthetic rubber gloves, boots, overcoat with full sleeves, and N95 mask**
- Recommend Spray gun made of Stainless Steel or HDPE or PVC
- Once diluted, use the solution within 5 hours
- **In case of skin contact:** Wash off immediately with plenty of water. Wash contaminated clothing before re-use.
- **In case of eye contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine). Take victim immediately to hospital.
- **In case of ingestion:** Call a physician or poison control center immediately. Take victim immediately to hospital. If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Artificial respiration and/or oxygen may be necessary.

Available Pack Size: 5 Ltr | 35 Ltr

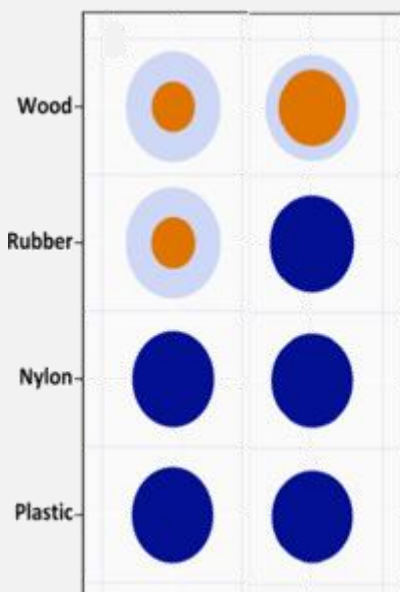
Product Shelf Life: 18 Months

Comparison between P60 & Hypo

1. Sodium hypochlorite is based on **chlorine chemistry** where as vooki GUARD P60 is based on **nascent Oxygen technology**. One of the main active ingredients in vooki GUARD P60 has higher oxidation potential of 1.8 EV compared to 1 EV of chlorine gas and 1.3 EV of hypochlorite.
Thus vooki GUARD P60 has better Germicidal properties.
2. Sodium hypochlorite @ 5000 ppm as per published data, maximum sufficient contact time, enough to kill enveloped virus. But high exposure level of hypochlorite is hazardous for human health. vooki GUARD P60 is 7 times more effective than Sodium hypochlorite and thus works more effectively with lesser concentration.
3. Hypo works well only on pre cleaned surfaces. Will not be effective in organic load like, food, wood, grease etc.
Thus a 3 step process is necessary
 - a. Pre Cleaning and partial disinfecting with HYPO
 - b. Disinfecting with HYPO
 - c. Post disinfecting strong water wash

Even after that, people may have excess exposure of chlorine, which may cause skin & eye irritation and also damaging the mucus layer in the respiratory track.
With regard to vooki GUARD P60, works well on organic loading also.
4. Disinfection is the **everyday phenomena** in certain places and it is a **hourly phenomena** in some frequent touch points. Usage of Sodium hypochlorite alone may not solve the safety exposure level requirements.
We suggest a combination of vooki GUARD P60 and vooki Disinfectant L15 for this problem.
5. HYPO is highly corrosive and not at all advisable to be used on metal surface, where as vooki GUARD P60 is much less corrosive in nature. (we also suggest L series product range from vooki)

Comparison of HYPO and vooki GUARD P60 on different metals



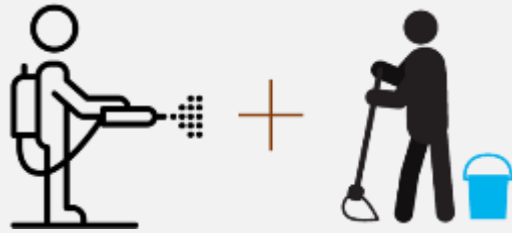
- . The killing capacity ratio of sodium hypochlorite (NaOCl) and Peroxy acid biocides on various materials (plastic, nylon, rubber, wood) contaminated with Salmonella Typhimurium-Choleraesuis (aSTC).
- . The killig capacity ratio of sodium hypochlorite (NaOCl) and Peroxy acid biocides on various materials
- . The average aSTC load related to the size of light blue outer circles.
- . The average aSTC kill percentages related to the size of inner circles.
- . The 5-log10 reduction related to the shading of the circle (blue circle = > 5-log10, orange circle = < 5-log10).

Source: Research article published in PLOS Journal, USA, May 23, 2019

vooki DISINFECTANT CLEANER

The traditional regular disinfectant products might kill the germs. But they do not clean the dirt and stains on the surface you are in contact with. It merely works as a germicide and have to depend on another cleaning substance to solve the need of spotless cleaning of floor/ other surfaces.

vooki Disinfectant Cleaner offers 24 hours antibacterial germ protection[^] and cleaning contains non toxic ingredients that are skin safe and **biodegradable and can be used even in presence of human beings.**



It is upgraded with advanced formulation, contains powerful disinfectant property which works against germs like bacteria, fungi and virus by dissociating the lipid layers of the microbes. Not just killing germs but also provides effective cleaning on most washable surfaces and removes stubborn stains. Thus ensures the surface clean & shine.

Formulated with **advanced quats** which delivers potent germicidal action in both hard water and organic soil load, unlike traditional quats.

Areas of application: Tiles, Wood, Marbles, Cement, Kitchen countertops, Ceramic, Steel, Mica, Aluminium, Iron, Glass, Acrylic, Plastic, Mosaic and other washable hard surfaces

Contact time: After applying allow to dry for 15 minutes

Dilution Ratio: 1:50 | 20ml in 1 Liter of water

Frequency of use: For healthy germ free clean ambience, and domestic households, recommend to use every day and Hospitality institutions and commercial properties, twice a day

The frequency of cleaning for frequent touch points should be more and the contact time should be short.

Caution:

Avoid direct contact with eyes, ears and mouth.

In case of contact with eyes, nose and ears, wash them with water immediately. If irritation persists, please contact doctor

Available Pack Size: 5 Ltr | 25 Ltr | 50 Ltr | 200 Ltr

Product Shelf Life: 18 Months

Salient Features

- Kills 99.9% Germs*
- 24 HOURS GERM PROTECTION[^]
- Effective against all microbes like bacteria, fungi, virus etc.
- Skin Safe
- Biodegradable
- Multi-surface cleaner
- Compatible with machine mopping

Non Electronic Contact Points



Taps



Handles



Toilet seats



Work desks

vooki ELECTRONIC COMPONENT CLEANER

The specially formulated blend of alcohol cleaner can be used on electrical and electronic components like electrical motors, coils, contacts, relays, switches, connections etc. in mobile phones, desktop, laptop, home appliances, motor bikes, cars and many more.

- Rapid Evaporation
- Quick Dry - Dries instantly.
- No foreign particles or dust will be attracted after cleaning
- No Stains - Evaporates rapidly and so no residue will be left on the surface

Directions for use

Turn off and unplug the electronic device before cleaning.
Use a clean dry soft cloth dampened with cleaner , wipe gently to clean the surface.

Dilution: Direct use. No dilution required

Frequency of use: For germfree healthy domestic and office space, use vooki electronic component cleaner after every human interaction

Caution:

Avoid direct contact with eyes, ears and mouth.
In case of contact with eyes, nose and ears, wash them with water immediately. If irritation persists, please contact doctor

Available Pack Size: 500 ml | 5 Ltr

Product Shelf Life: 24 Months

Electronic Contact Points



Telephone



Lift Button



Biometric access



Remote Control



Switches



Photocopier



Keyboards



Relay

vooki disinfectant L30 is a combination of good oxidizing biocide and broad-spectrum antimicrobial active content. It is 99.9% efficient rapid biocidal with synergistic antimicrobial activity. It also has fungicidal, bactericidal and virucidal activity; **vooki disinfectant L30** has some residual effect, keeping surfaces bacteriostatic for a brief time

Mechanism of action

- ☐ Inactivate energy-producing enzymes,
- ☐ Denaturation of essential cell proteins,
- ☐ Disruption of the cell membrane
- ☐ Producing destructive hydroxyl free radicals that can attack membrane lipids, DNA, and other essential cell components.

Applications

- ☐ It can be used to disinfect any hard surface including gas cylinder
- ☐ For automobiles | vehicles used for goods/people transit
- ☐ Inventory | for finished goods/ stocks stored
- ☐ It may be sprayed and wiped onto walls, floors, windows to kill surface born microbes.
- ☐ Should not be used in direct food contact surface

COMPARATIVE ADVANTAGES OF VOOKI DISINFECTANT L30 WITH CHLORINE BASED DISINFECTANT

PROPERTY	VOOKI DISINFECTANT L30	CHLORINE BASED DISINFECTANT
BIODEGRADABILITY	BIODEGRADABLE; NO HARMFUL DECOMPOSITION PRODUCTS RESULT AFTER ITS USAGE; RAPID DEGRADATION IN THE ENVIRONMENT AND LOW RESIDUAL AQUATIC TOXICITY	RELEASES TOXIC CHLORINE AND OTHER CHLORINE DERIVATIVES. IT CAUSES AOX (ABSORBABLE HALOGENATED ORGANIC COMPOUNDS) SUCH AS OF CHLORINATED DISINFECTION BYPRODUCTS (DPBS), TRIHALOMETHANES (THMS) AND HALOACETIC ACIDS (HAAS),
ODOUR AND IRRITATION	LESS ODOUR AND LESS IRRITANT	HIGH ODOUR AND HIGH IRRITANT
TOXIC NATURE	LESS TOXIC;	SKIN AND RESPIRATORY IRRITANT. BURNING PAIN, INFLAMMATION AND BLISTERS
STABILITY	COMPARATIVELY MORE STABLE THAN HYPO	DEPENDS ON LIGHT AND TEMP. NOT STABLE > 60 DEG C

Usage instruction and dosage norms:

- ☐ Recommended application method: Spray and wipe
- ☐ Disinfectant should contact the surfaces for 20 to 30 minutes depending on the degree of residual soiling and the class of microbial contamination.

Dilution Ratio: 1:25 | 40ml in 1 Liter of water

Contact time: 15 min

Frequency of use: For healthy germ free environment, use every day

Caution:

- ☐ Take necessary safety precautions
- ☐ Avoid direct contact with eyes, ears and mouth
- ☐ In case of contact with eyes, nose and ears, wash them with water immediately. If irritation persists, please contact doctor
- ☐ Fogging should not be used
- ☐ At the time of spraying, the user must wear standard Butyl II gloves or any good synthetic rubber gloves, boots, overcoat with full sleeves and N95 mask

Salient Features

- Kills 99.9% germs*
- Effective against all microbes like bacteria, fungi, virus etc.
- Biodegradable

Available Pack Size: 5 Ltr | 25 Ltr | 50 Ltr | 200 Ltr

Product Shelf Life: 12 Months

vooki DISINFECTANT L15

vooki disinfectant L15 is a blend of alcohol mixture with broad-spectrum antimicrobial active ingredients including quaternary ammonium compounds. It is 99.99% efficient with rapid biocidal with synergistic antimicrobial activity. It has fungicidal, bactericidal and virucidal properties; vooki disinfectant L15 has some residual effect, keeping surfaces bacteriostatic for a brief time

Mechanism of action

- ☐ Inactivate energy-producing enzymes,
- ☐ Denaturation of essential cell proteins,
- ☐ Disruption of the cell membrane and cell lysis

COMPARATIVE ADVANTAGES OF VOOKI DISINFECTANT L15 WITH CHLORINE BASED DISINFECTANT

PROPERTY	VOOKI DISINFECTANT L15	CHLORINE BASED DISINFECTANT
BIODEGRADABILITY	BIO DEGRADABLE; NO HARMFUL DECOMPOSITION PRODUCTS RESULT AFTER ITS USAGE; RAPID DEGRADATION IN THE ENVIRONMENT AND LOW RESIDUAL AQUATIC TOXICITY	RELEASES TOXIC CHLORINE AND OTHER CHLORINE DERIVATIVES. IT CAUSES AOX (ABSORBABLE HALOGENATED ORGANIC COMPOUNDS) SUCH AS OF CHLORINATED DISINFECTION BYPRODUCTS (DPBS), RIHALOMETHANES (THMS) AND HALOACETIC ACIDS HAAS),
ODOUR AND IRRITATION	LESS ODOUR AND LESS IRRITANT	HIGH ODOUR AND HIGH IRRITANT
TOXIC NATURE	LESS TOXIC;	SKIN AND RESPIRATORY IRRITANT. BURNING PAIN, INFLAMMATION AND BLISTERS
STABILITY	EXCELLENT	DEPENDS ON LIGHT AND TEMP. NOT STABLE > 60 DEG C

Applications

- ❑ Used to disinfect hard surface including floor, wall, windows etc.
- ❑ Domestic household, inside office spaces
- ❑ Class rooms, Cinema halls
- ❑ Shops and establishments etc.
- ❑ Can be used as fabric disinfectant



Dilution Ratio: 1:50 for critical surface; | 20ml in 1 Liter of water

1:100 for non critical surface | 10ml in 1 Liter of water

Contact time: After applying allow to dry for 30 minutes for better disinfection

Frequency of use: For healthy germ free environment, use every day

Caution:

- Take necessary safety precautions
- Avoid direct contact with eyes, ears and mouth
- In case of contact with eyes, nose and ears, wash them with water immediately. If irritation persists, please contact doctor
- At the time of spraying, the user must wear standard Butyl II gloves or any good synthetic rubber gloves, boots, overcoat with full sleeves, and N95 mask

Salient Features

- Kills 99.9% germs*
- Effective against all microbes like bacteria, fungi, virus etc.
- Biodegradable
- Non Corrosive

Available Pack Size: 5 Ltr | 25 Ltr | 50 Ltr | 200 Ltr

Product Shelf Life: 18 Months

vooki GUARD L37

vooki Guard L37 is a ready to use blend of alcohols and quaternary compounds .

It is 99.9% efficient rapid biocidal with synergistic antimicrobial activity.

vooki Guard L37 has some residual effect that can effectively disinfect all hard contact surfaces and equipment in regular human contact manifesting broad spectrum bactericidal, fungicidal and virucidal attribute.

Mechanism of action

The coactive operation of Quaternary compound in the presence of alcohol breaks down the lipoprotein complexes inside the microorganisms' cell, opening its membrane which allows the alcohol to pierce and rupture its total structure.

Applications

- L37 is competent to be used at In-house, Commercial and Industrial application surfaces
- Use in hard non porous surfaces including stainless steel, glass, formica laminates and other similar surfaces.
- Spray may be used on surfaces such as chairs, stools, counter top~ drawer pulls, door knobs and handles, car steering wheels, carts, baskets, tables, cabinets, lighting fixtures, bassinets, bed rails, incubators, physical therapy equipment, shower stalls, toilet exteriors and toilet seats, telephones and other related hard surfaces in hospitals,
- The spray maybe used to exercise and weight-lifting equipment, office equipment, telephones, and other related hard, non-food-contact surfaces.
- Should not be used in direct food contact surface
- Should not be used on hot surface

Key Features & Benefits

- Alcohol based Ready-To-Use product
- Rapid action of spray with wipe
- Highly effective in removing most infection spreading germs
- Non-tainting, non-staining nature, does not alter the property of application system, be it metal, non-metal, glass, etc.
- Enhanced sanitation performance

Usage instruction and dosage norms:

- Recommended application method: Spray and wipe
- **Dilution Ratio:** Direct use

Contact time: Less than one min

Frequency of use: For healthy germ free environment, use every hour

Salient Features

- Kills 99.9% germs*
- Effective against all microbes like bacteria, fungi, virus etc.
- Biodegradable
- Non Corrosive



Caution:

- Take necessary safety precautions
- Avoid direct contact with eyes, ears and mouth
- In case of contact with eyes, nose and ears,
- wash them with water immediately. If irritation persists, please contact doctor
- Fogging should not be used
- At the time of spraying, the user must wear standard Butyl II gloves or any good synthetic rubber gloves, boots, overcoat with full sleeves and N95 mask
- At the time of spraying the user must wear standard Butyl II gloves or any good synthetic rubber gloves, boots, overcoat with full sleeves, and N95 mask

Handling

Proper safety products such as splash goggles, gloves, lab coat should be worn while handling and applying chemicals.

Splashes on skin to be washed off with water immediately. In case of splashing into the eyes, flush them with fresh water and seek medical attention.

Should not be injected.

Storage:

Flammable Product! Store in cool, dry well ventilated area in tightly closed, plainly labelled containers. Keep away from incompatible materials. Containers, even when empty, will retain residue and vapours. Separate from acids, alkalis, reducing agents and combustibles.

Dosage & Application:

Aim at the target area, spray and wipe with a lint free cloth. For hard surfaces, the solution is allowed to remain for 30 seconds.

Available Pack Size: 500 ml | 5 Ltr

Product Shelf Life: 18 Months

VOOKI PREMIUM HOUSEKEEPING PRODUCTS

vooki FLOOR+SURFACE CLEANER



- Kills 99.9% Germs*
- 24 Hours Germ Protection^
- pH Neutral
- Compatible with Marble & Granite Flooring
- No Harsh Chemical used

vooki TOILET BOWL CLEANER

- Kills 99.9% Germs*
- Pleasant Fragrance
- Skin Safe
- No Harsh Chemical used



vooki HARD STAINS SPRAY+WIPE



- Kills 99.9% Germs*
- 24 Hours Germ Protection^
- pH Neutral
- No Harsh Chemical Used
- Skin Safe

vooki GLASS+SURFACE CLEANER

- No Ammonia
- No Acid | No Bleach
- Streak free Shine
- pH Neutral
- Skin Safe



SNAPSHOT OF NEW VOOKI DISINFECTANT RANGE OF PRODUCTS

	Disinfectant Cleaner	GUARD P60	Disinfectant L15	Disinfectant L30
Target Application	Domestic/Industrial surfaces. Tiles, Wood, Marbles, Cement, Kitchen countertops, Ceramic, Steel, Mica, Aluminium, Iron, Glass, Acrylic, Plastic, Mosaic and other washable hard surfaces	Sprayed in Outdoor Surfaces of Factory units, Garden area, Common outdoor areas of commercial institutions etc	Indoors Surfaces. Used to disinfectant on hard surface including floor, wall, windows etc of institutions / households	Direct Spray application on domestic & Industrial space. Sensitive production units /objects like Gas cylinders, vehicles, inventories stored etc.
Primary Usage	Disinfectant + Cleaner	Disinfectant	Disinfectant	Disinfectant
Power of Germ Kill [Rank 1-4]	2	1	4	3
Germicide Property	Kills 99.9% Germs*	Kills 99.9% Germs*	Kills 99.9% Germs*	Kills 99.9% Germs*
24 Hours Germ Protection [^]	Yes	Yes	Yes	Yes
Skin Safe	Yes	No	No	No
Earth Safe	Yes, Biodegradable	Yes, Biodegradable	Yes, Biodegradable	Yes, Biodegradable
Dilution Ratio	20ml in 1 Ltr of water	Non critical: 2ml in 1 Ltr of water Critical: 3.3 ml in 1 Ltr of water	Critical: 20ml in 1 Ltr of water Non critical: 10ml in 1 Ltr of water	40ml in 1 Ltr of water
Contact time	After applying allow to dry for 15 min	After applying allow to dry for 20 min	After applying allow to dry for 30 min	After applying allow to dry for 15 min
Frequency of use	Daily	Daily	Daily	Daily
Safety Precaution	Avoid direct contact with eyes, ears and mouth	Recommend to use either 1 hour before opening premise or after closure of office hours. Not to be used on aluminium, copper, mild steel and fabrics. • At the time of spraying, the user must wear standard Butyl II gloves or any good synthetic rubber gloves, boots, overcoat with full sleeves, and N95 mask Recommend Spray gun made of Stainless Steel SS(316) or HDPE or PVC. Once diluted, use the solution within 5 hours.	Avoid direct contact with eyes, ears and mouth No Direct usage on food contact applications Once diluted, use the solution within 24 hours.	Avoid direct contact with eyes, ears and mouth
Available Pack Size	5L, 25L, 50L, 200L	5L, 35 L	5L, 25L, 50L, 200L	5L, 25L, 50L, 200L
Shelf Life	18 months	18 months	18 months	18 months



Pon Pure Chemicals Group
catalyzing your growth

vooki®

Recommended Dilution for normal situation

For open space: Total Area in sqft x 15ml

For room including floor, walls & ceilings

Total Floor Area in sqft X 2.5 X 15ml

Recommended Dilution for severe situation

For open space: Total Area in sqft x 30ml

For room including floor, walls & ceilings

Total Floor Area in sqft X 2.5 X 30 ml

Calculation for 10000 Sqft Floor Area (For a single spray at non-critical application)

Product	Dilution Ratio	Disinfectant Solution required (in lit)	Disinfectant concentrate required (in lit)
Guard P60	1:500	150	0.3
Disinfectant L15	1:50	150	3
Disinfectant L30	1:25	150	6
Hand Sanitizer [calculation for 100 employees] 2ml per employee X no.of employeesX 10 times X 30 Days		60	

Calculation for 10000 Sqft Floor Area (For a single spray at critical application)

Product	Dilution Ratio	Disinfectant Solution required (in lit)	Disinfectant concentrate required (in lit)
Guard P60	1:500	300	0.6
Disinfectant L15	1:50	300	6
Disinfectant L30	1:25	300	12
Hand Sanitizer [calculation for 100 employees] 3ml per employee X no.of employeesX 10 times X 30 Days		90	

^under tested conditions

*certified by authorized laboratory

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use

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Hazards on Installing Human Disinfection spray as a measure to stop spreading COVID-19 among general public

Note on Corona Virus

Coronaviruses (Covid-19) belongs to the enveloped virus type, which spreads through physical transmission from person to person from droplets due to coughing or sneezing of infected person and also through physical contact with virus contaminated hard surface.

Coronaviruses are known to cause illness ranging from the common cold to more severe respiratory diseases such as Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS). Covid-19 is a new variant of the Corona virus family. Covid-19 is posing serious challenges today to the government and society. As the pandemic has spread around the globe, concerns have shifted from supply-side manufacturing issues to reduced consumption and decline in business in all sectors including service sectors.

Note on disinfection tunnel

To save people from Coronaviruses, new ways like disinfectant tunnels have been initiated for installation in malls, markets, railway station, airport, manufacturing sites and in places where large number of people gather.

The tunnel has a series of nozzles which sprays/ fogs/ mists a diluted disinfectant solution onto human beings with the aim of disinfecting them. Disinfectant used includes various types that are commonly seen in the market, including chlorine based bleach to high end specialties. The objective of this new method is to kill microbes - specifically Covid-19 virus by making people pass through the tunnel.



Effectiveness of such spray:

For any Disinfectant to work, Minimum concentration limit is required along with certain contact time. Concentration and Contact time are inversely proportional. As concentration decrease, contact time required is more. Moreover for each type of Virus, concentration and contact time varies. In the tunnel disinfection method, Contact time of the disinfectant is very short and hence this makes the effectiveness of this method reduced considerably.

Risk with Disinfection Tunnel

When the disinfectant is applied through fogging/ misting process, the particle size of the disinfectant becomes very small (Micron Level) and could pose serious respiratory problems. The chances of it entering the respiratory tract of humans are very high. For eg. Hypo being an oxidant, it could damage the human mucous layer easily.

Recently published data about Covid-19 has indicated that it causes increased respiratory issues in the infected persons. In our opinion, at this juncture, without proper test data, supporting the usage of hypo in tunnels as tunnel disinfectant is not a recommended method to counter Covid-19 spread.

Moreover, usage of hypo in higher dose levels is not recommended for human skin contact due to the ill-effects that it could cause on human skin.

So we strongly recommend not to use hypo in tunnels and subject people to undergo a Disinfectant spray.

Our Recommendation

Human

1. Sanitize your Hand using good quality hand Sanitizers. Soap also removes the microbe but it may be lesser effective than hand sanitizers.
2. Wash your hands, legs, face and body on your return from your visit outside of home for purchasing essentials.
3. Use clothes & shoes that are washed thoroughly using a good quality detergent and disinfectant. Nowadays antimicrobial textiles, inner garments, socks and shoes are available readily in the market that are safe for the skin and with proven long standing efficiency

Work places

1. Clean regularly all work places and common utilities including toilets, & pantries using a good quality hard surface disinfectant
2. Floors to be mopped using floor cleaners containing the right type and concentration of disinfectant

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VOOKI PROTOCOL FOR POST LOCKDOWN RESTART [BACK TO WORK]

APPLICATION AREA	Hygiene Factor	PROCEDURE	PRODUCT	FREQUENCY
Employee Transit vehicles	Hand	Use Alcohol based hand rub to sanitize your hand Isopropyl Alcohol >=70% Ethanol >=80%. Use WHO recommended formulation	vooki Hand Sanitizer vooki [E] Hand Sanitizer	Every 60 mins
	Surface	Disinfect inside vehicle surfaces Disinfect outside vehicle	vooki Disinfectant Cleaner vooki Disinfectant L30	Before starting pick up & After dropping at work place
	Self	Carry 50% of the vehicle capacity Maintain Social Distancing Wear protective Masks 1st person entering should occupy last row seat position and vice versa when getting down Sit in alternate seats		
Security Booth	Hand	Place Hand Sanitizer with security & enforce the usage with every incoming employee at gate level Isopropyl Alcohol >=70% Ethanol >=80%. Use WHO recommended formulation recommend to use Hands free Hand sanitizer unit Place tissue box next to hand sanitizer if handsfree unit is not installed	vooki Hand Sanitizer vooki [E] Hand Sanitizer	Every employee & visitor must sanitize their hands at gate entry & exit
	Surface	Disinfect entire security booth	vooki Disinfectant L30	Every 4 Hours
	Self	Maintain Social Distancing draw yellow line for indication Temperature check & Checklist Avoid allowing courier/ delivery person beyond security gate Security to Wear protective Masks & gloves		
Walk Way to Reception/ Lobby	Surface	Disinfect outdoor area & pathway Avoid using Bio-metric punching	vooki Guard P60	Every Day 1 hour before starting
	Self	Mark lines for indication in queue systems Maintain Social Distancing		
Common Touch Points	Hand	Use hand sanitizer after in contact with common touch points Isopropyl Alcohol >=70% Ethanol >=80%. Use WHO recommended formulation	vooki Hand Sanitizer vooki [E] Hand Sanitizer	Use hand sanitizer after in contact with common touch points
	Surface	Disinfect electronic touch points Disinfect non electronic touch points	vooki Electronic Cleaner vooki GUARD L37	Every hour/ After every usage
	Self	Maintain Social Distancing Avoid contact with common touch points. For doors, make provision to open with legs Avoid lifts. Shut down lift for 2-3 floors Avoid touching hand rails on staircase Use alternate urinal stations to avoid close contacts Disinfect toilet sets after every usage		
Indoor Floor/ Work area	Surface	Disinfect the floor & Mopping/ Cleaning Disinfect Walls (indoor&outdoor)	vooki Disinfectant Cleaner vooki Disinfectant L15	Every 4 Hours
	Self	Maintain Social Distancing Wear protective Masks		

APPLICATION AREA	Hygiene Factor	PROCEDURE	PRODUCT	FREQUENCY
Cubicles / Work Station	Hand	Use hand sanitizer after in contact with common touch points Isopropyl Alcohol >=70% Ethanol >=80%. Use WHO recommended formulation	vooki Hand Sanitizer vooki [E] Hand Sanitizer	Every 1 hour
	Surface	Disinfect common touch points	vooki Disinfectant Cleaner	Once in every shift
	Self	Maintain Social Distancing Sit in alternate seats. Sit zig zag positions Avoid sharing mobiles, stationaries etc. Wear protective Masks		
Conference/ Meeting Rooms/ Visitor Chairs	Hand	Place Hand Sanitizer in meeting/ Conference room tables Isopropyl Alcohol >=70% Ethanol >=80%. Use WHO recommended formulation	vooki Hand Sanitizer vooki [E] Hand Sanitizer	Every session
	Surface	Disinfect entire desk, chairs Clean/ Mop floor area	vooki GUARD L37 vooki Disinfectant Cleaner	Every session Once in every shift
	Self	Maintain Social Distancing Sit in alternate seats. Sit zig zag positions Wear protective Masks		
Machinery/ Equipment	Hand	Place Hand Sanitizer Isopropyl Alcohol >=70% Ethanol >=80%. Use WHO recommended formulation	vooki Hand Sanitizer vooki [E] Hand Sanitizer	Every 1 hour
	Surface	Disinfect Machinery/ Equipments Clean/ Wipe Machinery & Equipments Clean/ Wipe Machinery & Equipments (Electronic)	vooki GUARD L37 vooki Electronic Cleaner	Every Shift
Goods Vehicles	Surface	Disinfect outer surface of vehicle	vooki Disinfectant L30	Spray immediately after a vehicle comes
Inventory Stored	Surface	Disinfect goods/ inventory stored (carton box, metal/plastic drums etc.)	vooki Disinfectant L30	Spray as and when new stocks arrives
Canteen/ Kitchen Area	Hand	Use Hand Wash	vooki Hand Wash Liquid	Before & after food intake
	Surface	Disinfect Canteen Floor area	vooki Disinfectant L30	Once in a day before & after service
		Disinfect Kitchen Area		After every human contact
		Disinfect Table and Chairs	vooki GUARD L37	Once in a day
		Mopping/ Cleaning the floor (not to Spray on Food Contact Applications)	vooki Disinfectant Cleaner	Once in a day before & after service
	Self	Maintain Social Distancing Keep doors & windows open Sit in alternate seats. Sit zig zag positions		
Outdoor/ Garden Area	Surface	Disinfect outdoor area & pathway	vooki Guard P60	Before 1 hour of 1st shift or After last shift
		Disinfect Garden Area		
		Mopping/ Cleaning the floor	vooki Disinfectant Cleaner	Once in a day
	Self	Maintain Social Distancing Wear protective Masks		

BRAND STORY

vooki stands for brilliant cleaning products that truly work, for you and the planet. Our vision is to add value in people's life by enabling them to experience a guilt free cleaning experience. vooki products are carefully composed with hand-picked eco-friendly ingredients which are non-toxic, skin-friendly and biodegradable. Despite the uncompromising cleaning performance, vooki gives you a pride and satisfaction for caring family hygiene and a little contribution to the eco-friendly environment.

We are proud to present "surface cleaning brand to offer 24 hrs antibacterial germ protection" without using high toxic ingredients. We aim at giving you a cleaning experience that is fun to do and would love to take up., for you would visibly enjoy the satisfaction of sparkling clean surfaces with very little effort, at the same time being skin safe, having as a healthy and improved standard of lifestyle and forerunner who cares for the environment.*

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Thank You

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