

PRODUCT DATA SHEET and cooperation document

Hygiene of Sweden antibacterial hand foam/ hand spray

Thailand market:

Hygiene of Sweden AB sole distributor in Thailand is Winova Thailand Company located in Hua Hin. They market and sell our hand disinfectant technology and among our partners are Trimar Eurlube (Thailand) Co., Ltd. distributing to Oil & Gas and related industries.

PRODUCT DESCRIPTION:

Hygiene of Sweden is an alcohol free effective antibacterial foam for hands that was formulated to avoid all bacteria resistance, prevent chemical to breathe in through the skin and still be very gentle to the skin and environment.

Hygiene of Sweden combines non-chemical combination with a two-way polymer system (the backbone) and a selection of approved biocides or active agents.

The polymers are hydrophobic in nature and adheres the Hygiene of Sweden molecule solution to hard surfaces and organic materials. This adherent/hydrophobic quality also makes Hygiene of Sweden **water resistant**. All of this means the active ingredient remain in place and effective for longer and creates an incredibly hostile environment for the bacteria's and creates a long-lasting **residual** anti-microbial action.

The high molecular size of the polymers **prevents** any of the ingredients to enter the body and keeps it on the top of the skin.

The **combination** of physical and chemical action mode prevents any bacteria to become resistant.

Hygiene of Sweden is alcohol free and in combination with polymers, Aloe Vera and vitamin B5 makes the product **gentle, don't dry out the skin** and gives a natural moisturized feeling.

Since alcohol-based sanitizers are a solvent, they also remove the skin oil where we have our good bacteria compared to Hygiene of Sweden that keeps our good bacteria intact.



HYGIENE OF SWEDEN

PRODUCT DATA:

Physical form:	Liquid
Color:	Transparent
pH:	4-6
Scent:	Fresh (slightly perfumed)
Dilution:	Ready to use
Shelf life:	36 months

PRODUCT APPLICATIONS:

Hygiene of Sweden antibacterial hand foam can be used both by consumers and professionals on hands but also on any screen. Should be used everywhere you want to avoid spreading or get any contagion for example:

- Gym
- Public toilets
- Flight
- Hospitals
- health care facility
- Any transports
- Hotels
- Schools

BENEFITS:

Compared to alcohol-based sanitizers Hygiene of Sweden:

- Kill 99,999 % bacteria
- Don't dry out hands
- Still active after dried in, long lasting residual effect
- Do not remove our good bacteria
- VERY effective against Norovirus
- Prevent the skin to breathe in ingredients
- pH adapted, same pH as the skin
- Not flammable
- Wash your hands better



HYGIENE OF SWEDEN

APPLICATION INSTRUCTIONS:

Pump 1-2 times into your hands, spread evenly and let it dry in. Avoid contact with eyes. If contact occurs, rise eyes thoroughly with water. If used on screen, wipe off with cloth.

If washing hands with anionic soap, the residual effect of Hygiene of Sweden can get removed.

PRODUCT TEST DATA

Formula Tested microorganisms:

Bacteria

Escherichia coli, *Staphylococcus aureus*, *Pseudomonas aeruginosa*, *Enterococcus hirae*,
Listeria monocytogenes

Virus

Murine Norovirus

Fungi

Candida albicans

Performed Europe standard test

EN1500:2013

EN1499:2013

EN13 697

EN14476 NOROVIRUS

EN1276:2010

Dermatological test



HYGIENE OF SWEDEN

Viricidal efficiency

Active ingredient DDAC tested H1N1, 0,025 %. Showing efficiency against enveloped virus. Example of enveloped virus:

- Herpesviruses (e.g. Epstein-Barr virus, Herpes simplex, Bovine alphaherpesvirus 1 (causing Bovine Rhinotracheitis), suid herpesvirus 1 (causing pseudorabies=Aujeszky's disease))
- Poxviruses (e.g. smallpox, vaccinia virus)
- Hepadnaviruses (e.g. Hepatitis B virus)
- Asfarviridae (e.g. African Swine fever)
- Flavivirus (e.g. Hepatitis C, yellow fever virus, Zika virus, dengue virus)
- Alphavirus (e.g. eastern equine encephalitis virus)
- Togavirus (e.g. Alphavirus)
- Coronavirus (e.g. SARS virus, MERS virus, novel coronavirus (2019-nCoV – Wuhan coronavirus outbreak))
- Hepatitis D virus
- Orthomyxovirus (e.g. Influenza virus A (H1N1-swine flu, H3N2-Hong Kong flu, H9N2-avian influenza, H3N8, H5N1, H5N2...), Influenza virus B, Influenza virus C, Influenza virus D)
- Paramyxovirus (e.g. mumps virus, human parainfluenza virus, measles virus, canine distemper virus, rinderpest virus)
- Rhabdovirus (e.g. rabies virus)
- Bunyavirus (e.g. Hantavirus, California encephalitis virus, Congo hemorrhagic fever virus)
- Filovirus (e.g. Ebola virus, Marburg virus)
- Retrovirus (e.g. Human Immunodeficiency Virus (HIV), Mouse mammary tumor virus)
- Arteriviridae (e.g. Porcine Respiratory and Reproductive Syndrome Virus (PRRSV))s

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