Safety :GHS Classification/

Acute Oral Toxicity Test Not Classified
Acute Skin Irritation Test Not Classified
Acute Eye Irritation Test Not Classified

Definition of Classified in this case:

In GHS regulation concerning hazardous classification, there is sufficient evidence is found that it does not fall under any category of hazards

Application :Spray to Mask, Protection Wear, Filter, Fabric Products

Usage :For mask and protective wear, spray GVC on outside surface and let it dried]

before use. Use hair dryer if in a hurry.

Precaution :Do not use of other purpose than directed.

Do not place in the reach of children.

Do not spray to face

(keep a proper distance to avoid direct spraying to eyes, nose and mouth).

First Aid :Rise with running water immediately when it entered into eyes.

Rinse (avoid vomiting) the mouth with water and drink clean water

when swallowed.

Storage: In cool and dark place.

Technical data :Liquid

Appearance :Lightly white cloudy

Color :Lightly white cloudy

Odor :Odorless

Main Components :Sodium Metasilicate (Active component of inactivation), Cellulose Nano

Fiber, I-tartaric Acid, Alkyl Glycoside 0.4%, Purified Water,

Non-Volatile Matter : <7%

pH : <12%

#### **Disinfection Effect Against New Corona Virus:**

National Institute of Technology and Evaluation (NITE) confirmed, according to their verification tests among those surfactants which were known as effective to New Corona Virus, that Alkyl Glycoside (Over0.1%) was found to be effective to disinfect New Corona Virus.

The verification test by National Institute of Infectious Diseases:

Confirmed the infectivity reduction rate of 99.999% or above in 20 sec with 0.05%.

The verification test by Kitasato University:

Confirmed inactivation effect in 1 min. with 0.1%

■ S7SUC-V-0-GV Contains < 3.0% of Alkyl Glycoside











Select right product for right purpose among products stipulating disinfection control measures against New Corona Virus.

New Corona Virus Measures Surfactants containing in det https://www.meti.go.jp/press/2020/06/20200626013-1.pdf

Surfactants containing in detergents eliminate New Corona Virus. https://www.meti.go.jp/press/2020/06/20200626013/20200626013-3.pdf

Supervise: AIREX Co., Ltd.,

Tokai University Academic-Industry Collaboration Testing Laboratory

**Grafton Inc.** https://www.grafton-gr.com/

4-11-14-3F, Yoga, Setagaya-Ku, Tokyo, Japan 4-11-14-3F TEL 03-6413-4766 FAX 03-6413-4737

## GRAFTON!



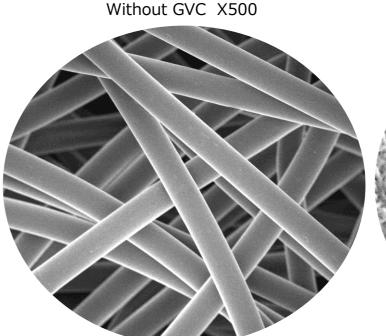
# GVC

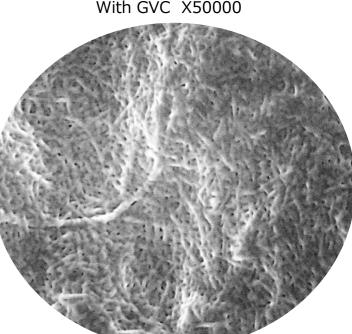
**Product name** 

For Spraying on Masks
Inorganic Virus Inactivation Agent
Patent Pending

- Inactivate Virus accumulating on surface of masks quickly and continuously.
- 99.3% reduction in 1 min.
- **■** 99.9% reduction in 10 min.

## GVC becomes 10~30 nano meter mesh shape after spray on surface of mask.





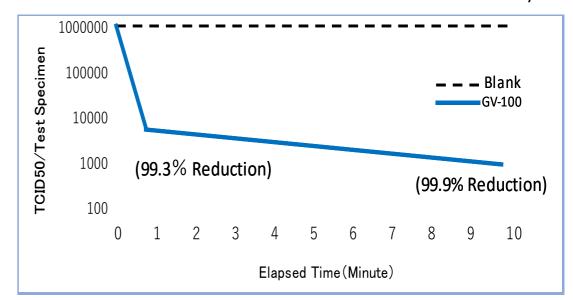
**■** Block virus incoming into mouth and nose

- The effectiveness of masks against virus is being asked
- Virus is easily passing through disposable masks.
- Virus and droplets accumulated on mask become cluster form.
- May inhale large amount of accumulated virus and droplets.
- The correlation of mass exposure to virus and progression are being indicated.

### **AIM**

- GVC inactivates guickly the virus adhered on surface of Masks, Wears and Other Textile Products with continuous effects.
- Contained cellulose nano-fiber create multilayered mesh, 10-30 nm in size, to block the Virus, over 50 nm, passing through the masks.
- As result, GVC protects the virus from accumulating on surface of masks.
- GVC also restraints from aspiration of the dried virus floating from masks.

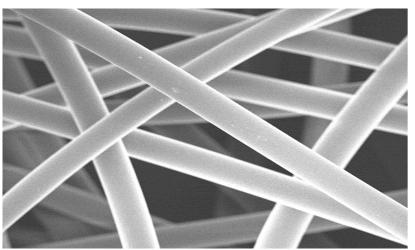
## [GVA-100] Processed Cotton Cloth SARS-CoV-2 Result of Inactivation Efficiency Test



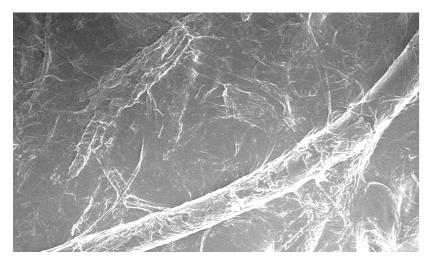
Test Virus: SARS-CoV-2 **GVA-100 (Liquid) on cotton** ■99.3% reduction in 1 min. ■99.9% reduction in 10 min.

[Test specimen: Coated 4 months before the test]

## Extended images after spraying GVC on disposable non-woven poly-olefine masks



Blank non-woven mask X500



After GVC sprayed & dried X500



Cedar Pollen 30~40 micron

Yellow sand 4 micron average PM2.5 Under 2.5 micron

> Droplet nuclei materials under 0.3 micron

GVC on surface of mask after drying

- Become 10~30 nm mesh shape.
- Block virus incoming into mouth and nose.
- Sprayed GVC inactivate accumulating virus consecutively.

N95 Mask spec.

Spec. standard of respiration apparatus Protection tools. Over 95% collection of 0.3 micron collection efficiency test.



Formaldehyde About 0.00052 micron Floating in multiple bonded form

New corona virus (SARS-CoV-2) 0.05~0.2 micron

X 50000

■ GVC Filter =  $0.01\sim0.03$  micron mesh ( $10\sim30$ nm)

100 nano meter scale image 50 50 nano meter (0.05 micron)