

# Dr. Nano

# Long lasting Disinfectant

Dec 2<sup>nd</sup> 2020

## Company Motto

**Protecting your love ones**

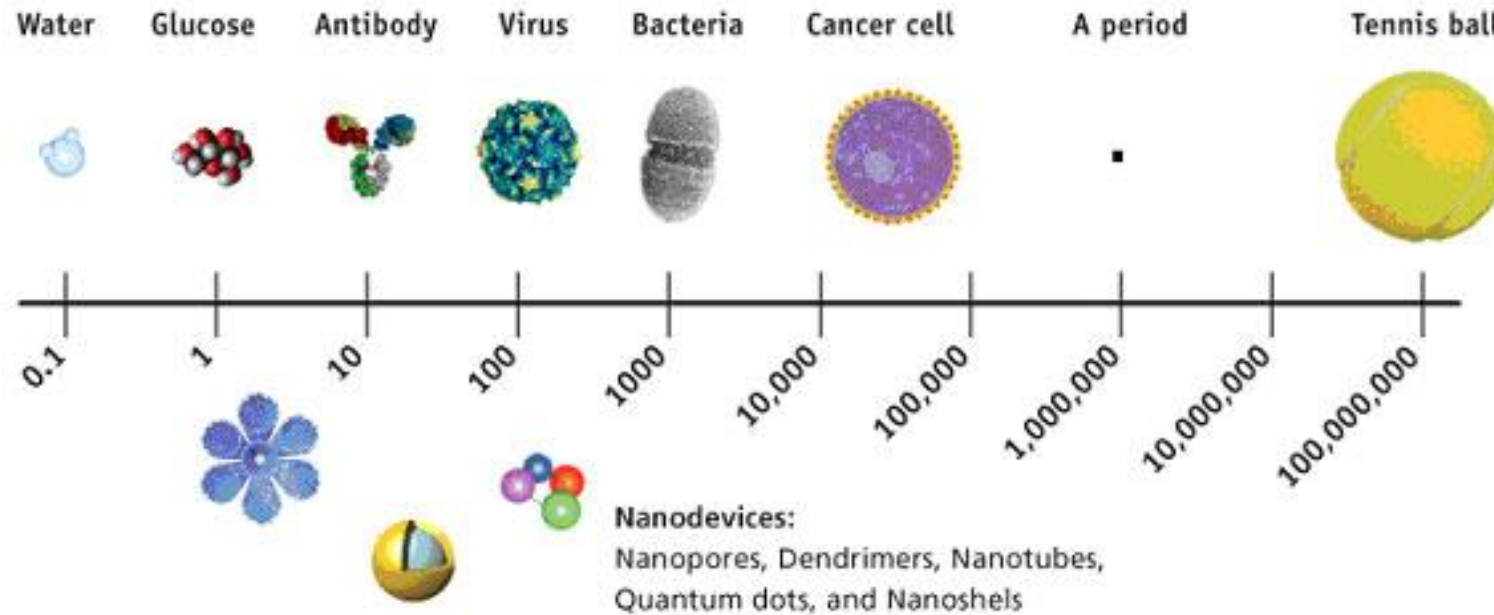
# Company Direction

- Nanotechnology focused
- Product research and development
- Service offerings in Hong Kong since 2015
- Products rollout in Hong Kong in 2019
- Products rollout to Europe in 2021

# Photocatalyst - Titanium Dioxide $\text{TiO}_2$

- A mineral
- Discovered by Japanese in 1967 - decompose bacteria and viruses when upon contact with
- Applicable only after nanotechnology available in 90s
- FDA rated food additive
- $\text{TiO}_2$  exists in
  - ice cream and milk
  - Ladies cosmetics
  - Regular paper and sunscreen

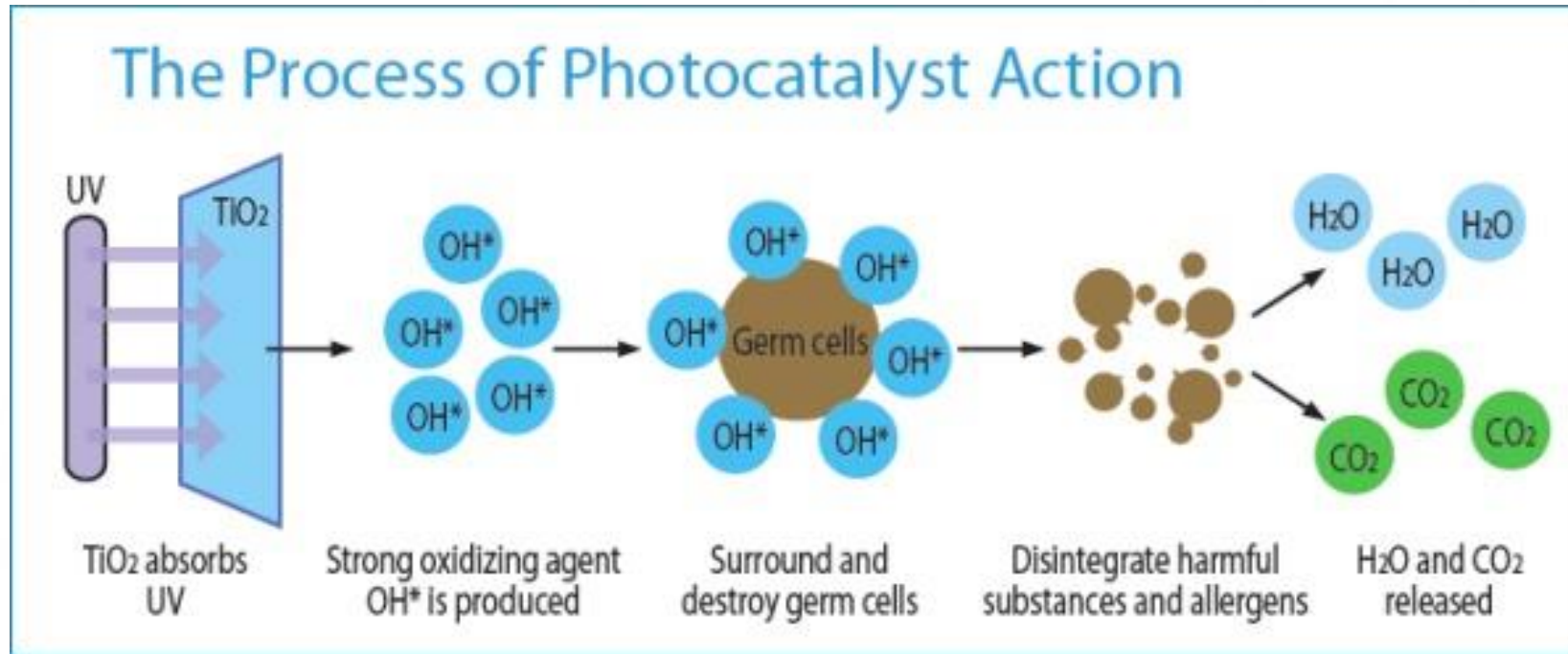
# Nano particles size comparison



# Nano TiO<sub>2</sub> Characteristics

1. Decompose bacteria and viruses and turn them into CO<sub>2</sub> and H<sub>2</sub>O
2. Decompose VOC such as formaldehyde
3. Deodorizes any odors generated by organic matter
4. Anti-mildew
5. Decompose pollutants including nitrides and sulfides

# How $\text{TiO}_2$ Decompose Bacteria and viruses



# Characteristics of Silver

1. Silver is a well-documented antimicrobial to kill bacteria, fungi and viruses. It is the positively charged silver ions ( $\text{Ag}^+$ ) have an oxidizing power for disinfection and sterilization.
2. Silver is not toxic to humans and is not known to cause cancer, reproductive or neurological damage, or other chronic adverse effects.
3. Human contacting with solid silver coins, spoons or bowls for thousand of years and found no affect to human health.
4. Nano silver widely applied to medical applications for over 20 years.



# Nano Silver Particles

1. Nano silver particles non-stop emitting  $\text{Ag}^+$  like a manufacturing plant to kill bacteria and viruses.
2. Nano silver particles in the product is far much better than just  $\text{Ag}^+$  products since pure  $\text{Ag}^+$  alone is known very unstable.
3. The only drawback of using nano silver particles is very expensive for manufacturer.

## Power of Nano Silver + Nano TiO<sub>2</sub>

1. TiO<sub>2</sub> decompose bacteria and viruses while there is UV light source available.
2. Nano silver non-stop generating AG<sup>+</sup> to kill bacteria and viruses no matter UV light exists or not.
3. The combination of both nano TiO<sub>2</sub> and nano silver particles is able to protect us 24 hours a day non-stop.

## What makes the effect long lasting

1. After spraying **DR. NANO** Spray say on the surface of a table the nano  $\text{TiO}_2$  & nano silver particles are firmly stucked to the surface after the purified water is completely dried.
2. As long as these nano  $\text{TiO}_2$  & nano silver particles exist on the surface of table the bacteria/viruses' killing effect is there.

# EU Market Product Label



NANOTECHNOLOGY

## DISINFECTION & STERILIZATION

- ✓ Decompose **99.997%** bacteria & viruses
- ✓ Eliminate odour
- ✓ Round the clock protection for up to 30 days



100 ML

MADE IN HONG KONG

### Application:

Spray evenly on targeted area with a distance of 20-25cm (8-10inches). Leave it dry or wipe dry with paper towel for quick need. Spray an additional layer to enhance efficacy.

### Precautions:

Non-food and please do not use it for other purposes. Keep out of reach of children.

### Ingredients:

Purified Water, Nano Titanium Dioxide,  
Nano Silver

PROVEN TEST BY



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Will be  
replaced by  
further  
revised DR.  
NANO label.

# TUV Tested Certification

**DR. NANO** Nano TiO<sub>2</sub> and Nano Silver is TUV tested with efficacy up to 30 days

# MSDS

1. MSDS of CMT Nano TiO<sub>2</sub> and Nano Silver already available.
2. **DR. NANO** MSDS is basically the same.

# Declaration of Conformity

## The Certificate of conformance

Products furnished on this order have been provided in accordance with **DR. NANO** specification that contains Nano TiO<sub>2</sub>, Nano silver particles and purified water.

This declaration is printed on all invoices for our distributors.

# Technical Details

1. Nano TiO<sub>2</sub> particles size is 5-15 nm.
2. Nano Silver particles size is 2nm.
3. Purified water is distilled water.



# Declaration of performance

1. Bacteria/viruses killing rate of **DR. NANO** products is greater than 99.997%.
2. Eliminate bacteria/viruses right way when contact upon with.
3. The bacteria/viruses killing effect does not consume any physical material of nano TiO<sub>2</sub> and silver particles.
4. The long lasting effect of 30 days is not a limit if the nano TiO<sub>2</sub> and silver particles are well preserved.

# Instructions for use

1. Spray **DR. NANO** evenly on the target area with a distance of 20-25cm.
2. Leave it dry or wipe dry with paper towel for quick need.
3. Spray an additional layer to enhance efficacy.

# Nano TiO<sub>2</sub> & Nano silver users in Hong Kong

1. Mass Transit Railway (Hong Kong Subway)
2. Kowloon Motor Bus
3. Hong Kong Int'l Airport



# Comparison of **DR. NANO** and other disinfectants

| Functions                                      | <b>DR. NANO</b> | Alcohol based Disinfectant | Chlorine based Disinfectant |
|--|-----------------|----------------------------|-----------------------------|
| Disinfect viruses & bacteria > 99.997%         | ✓               | ✓                          | ✓                           |
| Deodorization                                  | ✓               | X                          | ✓                           |
| Apply once & works every minute afterwards     | ✓               | X                          | X                           |
| Efficacy lasts                                 | <b>30 Days</b>  | A few minutes              | A few minutes               |
| Non-toxic                                      | ✓               | X                          | X                           |
| Nanotechnology                                 | ✓               | X                          | X                           |
| Food grade rated (by FDA)                      | ✓               | X                          | X                           |
| Applicable on any surfaces                     | ✓               | X                          | X                           |
| Irritated Odor                                 | X               | ✓                          | ✓                           |
| Number of applications to be needed in 30 days | Once            | Over a hundred             | Over a hundred              |
| Effort to be required for full protection      | Very low        | Very high                  | Very high                   |
| <b>Efficiency and effectiveness rating</b>     | <b>High</b>     | Very low                   | Very low                    |

**Thank you**