



DISINFECTION PRODUCT

CATALOGUE (18RS +10)



**TOGETHER
STAY STRONG
FIGHT COVID-19
GET WELL SOON
WORLDWIDE**

Sumber: Pertubuhan Kesihatan Sedunia (WHO)



Merujuk kepada artikel yang disebutkan di 2019nCoV di atas, menyembur alkohol atau klorin di badan tidak akan membunuh virus yang telah dijangkiti ke dalam badan kita.

Syarikat kami sangat setuju bahawa jika virus itu telah memasuki ke dalam badan, menyembur alkohol atau klorin tidak akan menghapuskan virus yang sudah masuk ke dalam badan. Setelah dijangkiti, pesakit harus memasukan hospital dengan segeranya.

Dalam tempoh mendesak ini, saluran pembasmian kuman syarikat kami menggunakan CLO2 (klorin dioksida) untuk pembasmian kuman. Ini untuk mencegah virus, bakteria, dan jamur yang dibawa ke permukaan baju dan badan, dan dengan demikian untuk mencegah virus, bakteria, dan jamur menyebar ke orang lain sebelum bersentuhan dengan seseorang dan menyebar dari laman A ke laman B atau objek yang disentuh.

Di sini, sebagai warganegara yang bertanggungjawab, kita berharap setiap warganegara boleh membasmi kuman sekeliling kita ketika memasuki tempat awam untuk mencegah penyebaran virus. Dengan menggunakan saluran pembasmian kuman ini, walaupun tidak dapat membunuh virus di dalam tubuh badan, ia dapat membunuh virus, bakteria dan jamur di sekitar permukaan tubuh badan. Ini boleh mengurangkan peluang penyebaran.

Oleh itu, kami menemui dan memperkenalkan CLO2 (klorin dioksida) sebagai saluran pembasmian kuman dan produk pembasmian kuman lain dari produk Duttron di Netherlands dan produk Asylea di Australia. CLO2 (klorin dioksida) selamat untuk tubuh manusia, tetapi tidak diperakukan untuk diminum dan CLO2 ini tidak mengandungi alkohol. Produk ini telah disetujui oleh WHO, EPA dan NSF International.

Kami gembira mengetahui jika ada pengguna atau profesional yang mendapati pembasmi kuman lebih baik daripada CLO2 dan mungkin melanggar COVID-19. Kami berharap produk ini dapat dikongsi dengan orang ramai.

Pada masa ini, saluran pembasmian kuman telah banyak digunakan di China, Indonesia, Vietnam dan Korea Selatan. Terutamanya digunakan di China. Hasilnya dapat dilihat dan dikendalikan dengan berkesan.

Akhirnya, pencegahan lebih baik daripada mengubati. Pembersihan kebersihan, mencuci tangan, topeng dan pembasmian kuman mesti dilakukan. Kami berharap semua orang dapat memikul tanggungjawab untuk melindungi diri dan orang yang anda sayangi agar dapat mengurangkan beban kerajaan dan pihak yang berdiri di barisan depan and berani. Kekal sihat.

Rujukan dari prosedur operasi standard China (SOP) :

http://www.gov.cn/xinwen/2020-01/29/content_5472905.htm



THE BEST STRUCTURE INDUSTRIAL SDN BHD (802457-K)

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Disinfect



Auto Mist



Motion Control



Signal Light



Energy Saving



UV Sun Protect



Rain Protect

Heavy Duty Package (B1)

- 1 . Heavy Duty Canopy 10' x 10' White Top
- 2 . Transparent Side 40' x 8'
- 3 . Floor Spike T2x4
- 4 . Mist Pump 3HX1-4hr
- 5 . Nozzle x 12units with Nylon Pipe
- 6 . Motion Sensor setup with Cable
- 7 . Signal Light Setup with Cable
- 8 . Power Point Extension 100ft
- 9 . BK2 Black Water Tank with Cap 120 Liter with Flexible Hose
- 10 . BK2 Black Fabric Cover for Obstruct UV
- 11 . Water Tank Platform 2' x 2'
- 12 . CLO2 200 Tablet for 2000 Liter Mist Disinfection
- 13 . Full Set Setup

Heavy Duty Package (B2)

- 1 . Portable Canopy 10' x 10' Blue Top
- 2 . Transparent Side 40' x 8'
- 3 . Floor Spike T1x4
- 4 . Mist Pump 3HX1-4hr
- 5 . Nozzle x 12units with Nylon Pipe
- 6 . Motion Sensor setup with Cable
- 7 . Signal Light Setup with Cable
- 8 . Power Point Extension 100ft
- 9 . BK2 Black Water Tank with Cap 120 Liter with Flexible Hose
- 10 . BK2 Black Fabric Cover for Obstruct UV
- 11 . Water Tank Platform 2' x 2'
- 12 . CLO2 200 Tablet for 2000 Liter Mist Disinfection
- 13 . Full Set Setup

Heavy Duty Package (B3)

- 1 . Portable Canopy 8' x 8' Blue Top
- 2 . Transparent Side 32' x 8'
- 3 . Floor Spike T1x4
- 4 . Mist Pump 3HX1-4hr
- 5 . Nozzle x 12units with Nylon Pipe
- 6 . Motion Sensor setup with Cable
- 7 . Signal Light Setup with Cable
- 8 . Power Point Extension 100ft
- 9 . BK1 Black Water Tank with Cap 50 Liter with Flexible Hose
- 10 . BK1 Black Fabric Cover for Sun UV Protection
- 11 . Water Tank Platform 2' x 2'
- 12 . CLO2 200 Tablet for 2000 Liter Mist Disinfection
- 13 . Full Set Setup

Heavy Duty Package (B4)

- 1 . Portable Canopy 6' x 6' Blue Top
- 2 . Transparent Side 24' x 8'
- 3 . Floor Spike T1x4
- 4 . Mist Pump 3HX1-4hr
- 5 . Nozzle x 12units with Nylon Pipe
- 6 . Motion Sensor setup with Cable
- 7 . Signal Light Setup with Cable
- 8 . Power Point Extension 100ft
- 9 . BK1 Black Water Tank with Cap 50 Liter with Flexible Hose
- 10 . BK1 Black Fabric Cover for Sun UV Protection
- 11 . Water Tank Platform 2' x 2'
- 12 . CLO2 200 Tablet for 2000 Liter Mist Disinfection
- 13 . Full Set Setup



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- A) 1 . Mist Pump 3HX1-4hr (300psi)
2 . Nozzle x 12units with Nylon Pipe
3 . Mist System Setup Fee



- B) 1 . Mist Pump 3HX2-24hr (300psi)
2 . Nozzle x 12units with Nylon Pipe
3 . Mist System Setup Fee

Recommend Add On Item



- 1 . Motion Sensor
2 . Setup Fee with Cable 20ft

Recommend Add On Item



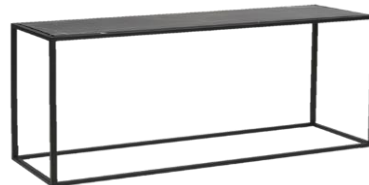
- 1 . Signal Light
2 . Setup Fee with Cable 20ft

Add On Item



- 1 . Power Point Extension 90ft

Add On Item



- 2 . Mist Pump Stand



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Battery Knapsack Sprayer - **For Sale**

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Name : Battery Knapsack Sprayer 16L

Package comes with:

- Battery pump sprayer (main unit) x1
- Charger x1
- Battery (attached with the product itself) x1
- Adjustable shoulder strap x1 set
- Handle x1
- Adjustable length lance x1
- Different type of nozzles
- Plug Adapter for charger x1
- User guide x1

**** 3 MONTH WARRANTY**



Battery Meter



Waterproof Protection
Speed Regulation



Breathable

Battery Knapsack Sprayer - For Sale



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Booster Gun for Battery Mist Blower - For Sale

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Name : Pressure Sprayer 5 liter

Material: PP material

Fan voltage & Power : 12V / 80W

Fan weight: about 1.8kg

Barrel size: about 37cm * 46cm * 20cm/14.57*18.11*7.87in

Fan size: about 62cm * 12cm * 22cm/24.41*4.72*8.66in

Scope of application: pesticide spraying, disinfection in public places, community bleaching, etc.

Fan features: high efficiency, fast speed, high atomization in distance of 5 -7 meters



Booster Gun for Battery Mist Blower - For Sale



Spiral impeller



Replaceable nozzle



Pure copper motor



Key switch, one touch

Spray & Pump Bottle - For Sale

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Name : Pressure Sprayer 5 liter
Pressure Sprayer 8 liter



Name : Spray Bottle 500ml
Pump Bottle 500ml

Spray & Pump Bottle - For Sale



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Mobile Auto Hand Sanitizing Machine - For Sale

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1. Automatic Hand Spray Sanitizer Dispenser
2. Stainless Steel Dispenser Stand with A3 Size Signage
3. CLO2 Disinfectant 30 Tablet

Product Description

1. Fully automatic induction, avoid the spread of bacteria caused by contact.
2. Full-automatic power-saving chip, energy-saving, environmental protection.
3. Mobile, Easy carry any way.
4. Long battery life and support AC / DC power supply.
5. CLO2 Disinfectant refill, Saving costing (Only rm 2.50 per refill 1200mL)
6. 1200ml large-capacity design, can support more than 1000 times disinfection.



Mobile Auto Hand Sanitizing Machine - For Sale

Office & Warehouse Disinfection Service

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Service

- 1) Disinfectant ULV Blower Spay for Indoor
- 2) Disinfectant Motor Mist Blower Spay for Outdoor
- 3) Disinfectant wipes human touch items by hand

Cover Area

- 1) Entrance Area
- 2) Door and handle
- 3) Air
- 4) Counter
- 5) Toilet Area
- 6) Table and Chairs
- 7) Touchable wall



Office & Warehouse Disinfection Service



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**HOW TO PREVENT THE
SPREAD OF COVID-19**

WITH

asylea™
Australia

DISINFECTANT

The Next Generation of Protection



Name : Asylea Booth Pro
100 Table Per Jar

Product From : Australia

01.

**Dissolve Asylea Wash Pro™ tab
in 5 litres of water**

asylea™
Australia

The Next Generation of Protection

02.

**Wipe down hard surfaces
with applicator**

asylea™
Australia

The Next Generation of Protection

**CLEANING
HARD SURFACES:**

asylea™
Australia

The Next Generation of Protection

**MIX WITH DETERGENT
FOR LAUNDRY
PURPOSES**

asylea™
Australia

The Next Generation of Protection



asylea™ Australia

THE NEXT GENERATION OF PROTECTION

Asylea™ alcohol-free hand sanitizer is an advanced nano mineral-based hand sanitizer formulated in Australia that provides longer protection for up to 12 hours in one single application.

Asylea™ alcohol-free hand sanitizer eliminates 99.99% germs with germicidal and germistatic properties. This means that on top of effectively killing germs, it inhibits the growth of germs on your hands, unlike typical hand sanitizers where germs can still grow and proliferate in the moisturizing agents used.

Asylea™ alcohol-free hand sanitizer is gentle on the hands, does not irritate or cause dryness to the skin, making it suitable to be used for mothers and children.

"DON'T WAIT FOR THE NEXT OUTBREAK, KEEP PROTECTED AT ALL TIMES!"

Natural & Safe | Cruelty Free & Vegan | Dermatologically Tested | GMP Manufacturer



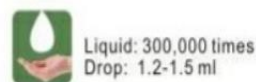




Asylea Hand Sanitizer 1 Liter :

HAND SANITIZING MACHINE: **RM0 ZERO RISK PROGRAM**

1. Machine Purchase: RM0
2. Rental OPEX: RM0
3. Worry Free, RM0 Maintenance
4. Yearly Replacement New Machine: RM0
5. Zero Risk, Option To Discontinue After 1-Year



Terms And Conditions :

- 1) Min Order 3 Liters Asylea Hand Sanitizer Per Month
- 2) Refundable Vandalism Protection Deposit



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CLO2 Disinfectant - For Sale

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CLO2 Disinfectant - For Sale



**TOGETHER
STAY STRONG
FIGHT COVID-19
GET WELL SOON
WORLDWIDE**



A1 Grade Safe &
High Efficiency
Green Disinfectant

Name : CLO2 Disinfectant

Product of : Dutrion Netherlands

Price : CLO2 200 Tablet for 2000 Liter Mist Disinfection

CLO2 30 Tablet for 300 Liter Mist Disinfection

CLO2 15 Tablet for 150 Liter Mist Disinfection

Efficacy : Sanitizing, Sterilizing & Deodorizing

Quick Kills Bacteria, Viruses, Germs, Molds & Fungus

(Air Disinfectant to prevent & protect human against Avian Influenza A Virus H5N1, H1N1 Flu Virus, Methicillin-resistant Staphylococcus aureus (MRSA), Hepatitis A Virus, Enterovirus 71, Coxsackie Virus, Hand Foot Mouth Disease (HFMD), SARS-CoV, MERS-CoV, HIV-1, E.Coli, Salmonella, Bacillus, Listeria, Trichophyton, Norovirus, Poliovirus, Adenovirus, Rhinovirus, Rotavirus.)



Aerial Misting



Mobile Misting with Mist Blower

- Application :
- Direct Sprayed, Air Misting, Mopping or Scrubbing
 - After Disinfect No Need Rinse & No Need Wipe
 - Non Corrosive
 - Non Alcohol
 - Harmless To Skin & Eye
 - Non-Toxic For Human, Proven Safety For Children.
 - No Harmful Residue If Drops On water Or Food Surfaces.
 - Safety To Disinfect Crowded Areas Without Displacing People.
 - Neutralizing Harmful Volatile Organic Compounds (VOC) In The Air
 - Eliminating Odors Related To Households, Pet, Mildews, Tobacco & Food



Mist Fan



Disinfection Channel



Air Humidifier



Kitchen Disinfecting



Swimming Pool Disinfecting



Water Park Disinfecting



Toilet Disinfecting & Deodorizing



Hard Surface Disinfecting



Shoe Disinfecting & Deodorizing



Toys Disinfecting



Playground Disinfecting

Approved By :



World Health Organization



FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS



FDA



NSF



EPA REGISTERED TECHNOLOGY

Sources: dutrion



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CLO2 DUTRION TABLET Best disinfeksi dan asas air bukan alkohol.

Penyelesaian Bakteria Terunggul !! VIRUS AWAY

Saiz: 200g (200 tablet)

Saiz: 30g (30 tablet)

Saiz: 15g (15 tablet)

Mempunyai masalah seperti HFMD, Salmonella, Demam Tifoid, Virus Flu dan lain-lain? Menjadi germaphobe? Takut dijangkiti oleh semua jenis bakteria dan virus?

Fred tidak !!! CLO2 DUTRION TABLET SPRAY biarkan awak mula dilindungi! CLO2 DUTRION TABLET Membantu anda mencapai persekitaran bakteria bebas dengan hanya satu produk!

Produk Belanda

CLO2 DUTRION TABLET SEMBURAN

- * digunakan untuk melindungi anda dan cintanya dari Bakteria & Virus silang yang tercemar.
- * kerja segera membunuh semua jenis Virus, Bakteria dan Kulat.
- * tidak mempunyai pembentukan produk sampingan (tiada kesan sampingan).
- * bukan alkohol, tidak toksik dan tidak menghakis.
- * ringkas dan senang digunakan dan diaplikasikan.
- * konsep selamat berbanding dengan produk klorin dioksida yang lain.
- * Memperkenalkan Disinfektan yang selamat, mudah dan berkesan untuk keperluan pembersihan harian anda.
- * boleh digunakan sebagai sanitiser tangan (tiada bilasan diperlukan).
- * boleh digunakan sebagai pembasmi kuman rumah biasa seperti disinfektan permukaan keras (lantai mop, meja lap dan kerusi, pakaian, tandas).
- * sesuai digunakan di semua tempat seperti sekolah, pejabat, kawasan umum (pusat membeli-belah, taman permainan, bilik gim dan kolam renang).
- * adalah untuk Sesiapa sahaja dan Siapapun yang sihat dan mahu hidup dalam persekitaran bebas Virus & Bakteria. Sesuai untuk bayi, kanak-kanak, ibu hamil, dewasa, isteri anda, suami anda, rakan-rakan anda, rakan sekerja anda, teman wanita anda, teman lelaki anda, dan juga bos anda.
- * Larutan klorin dioksida mempunyai jangka hayat yang panjang 30 hari.

Bagaimana Guna ??

1. Cuma buka penutup
2. Tambah 1 tablet ke dalam 1 liter air
3. Biarkan 5 minit sehingga tablet larut.
4. Larutan siap digunakan dalam botol semburan
5. Tidak perlu dibilas

Cara Simpan ??

- * CLO2 Tablet Dutrion Jauhkan jangkauan UV.
- * Simpan di tempat yang sejuk dan kering dengan suhu bilik.
- * Penyelesaian harus disimpan dalam bekas yang tidak transparan

Meja permohonan dan pencairan

Kuratif	Surface Sanitization	1 Liter = 1 Tablet
	Tangan Sanitization	2 Liter = 1 Tablet
Pencegahan	Surface Sanitization	10 Liter = 1 Tablet
	Tangan Sanitization	10 Liter = 2 Tablet



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Sources : Redefining Chlorine Dioxide System / Engelhard Corporation 2005 Product Brochures & Material safety data sheets / Dr. Harry Luttmann & Scotsmari's Group

Active Ingredient	CLO2	Quaternary Ammonium	Hydrogen Peroxide	Hypochlorite	Parasitic Acids	Iodophors	Glutaraldehyde	Ozone	Hydroxyl
Kill Time	Seconds	Minutes To Hours	Minutes To Hours	Minutes To Hours	Minutes	Minutes To Hours	30 Minutes To Hours	Minutes To Hours	Minutes To Hours
Broad Spectrum	✓	✗	✗	✓	✓	✓	✗	✓	✓
Kills Gram Negative Bacteria , Tuberculosis, Pseudomonas	✓	✗	✓	✓	✓	✓	✗	✓	✓
Kills Complex Organisms (cysts, spores, protozoa)	✓	✗	✗	✗	✓	✓	✗	✓	✓
Prevents Bacterial Adaptation	✓	✗	✓	✗	✗	✓	✗	✓	✓
Efficacy Not Diminished By Organic Contamination (blood, bodily fluids)	✓	✗	✗	✗	✗	✗	✓	N/A	✗
Efficacy Not Dependent on pH Levels	✓	✗	✗	✗	✗	✗	✗	N/A	✓
Non-Corrosive	✓	✗	✗	✗	✗	✗	✗	✗	✗
No Carcinogens	✓	✗	✓	✗	✓	✓	✗	✓	✓
Deodorizes	✓	✗	✗	✗	✗	✗	✗	✓	✓
Works on Biofilms	✓	✗	✗	✗	✗	✗	✗	✗	✗
Eliminates Chemical Contaminants	✓	✗	✓	✗	✗	✗	✗	✓	✓
Effective at High Temps	✓	✓	✗	✗	✗	✓	✗	✓	✓
Safe on Soft Fabrics	✓	✗	✗	✗	✗	✗	✗	✗	✗
Color Safe	✓	✓	✗	✗	✗	✗	✗	N/A	✗
No Harmful Environmental Residues	✓	✗	✓	✗	✓	✓	✗	✓	✓
Waste stream Compatible	✓	✗	✓	✗	✗	✗	✗	N/A	✓



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Formulation – Application

Formula & Benefit

Our Chlorine Dioxide (Clo2) active concentration and tablet is a powerful & Safest Microbial Solutions and transportable, non-explosive, once added to a specific volume of water, reacts quickly and safe into a long lasting chlorine dioxide solution with precise concoctions. Safe concept, simple handling and very cost effective,

- Our Dutrion® and Batrion™ active solution and tablet is worldwide licence holder and provider of economical and safe chlorine dioxide solutions.
- Clo2 is now recognized as one of the safest, most effective biocides and sanitizing agents available today. As a result it is widely used in both large and small-scale industrial and commercial applications where a potent but environmentally friendly biocide is required.
- Clo2 is effective over a wide pH range in both hard and soft water and does not react with most other water treatment chemicals or hazardous disinfectant. Many of its uses and applications are international approved. » Clo2 is now recognized as one of the safest, most effective biocides and sanitizing agents available today. As a result it is widely used in both large and small-scale industrial and commercial applications where a potent but environmentally friendly biocide is required.
- Clo2 is effective over a wide pH range in both hard and soft water and does not react with most other water treatment chemicals or hazardous disinfectant. Many of its uses and applications are international approved.
- Our Bactore solutions create the right environment for the Clo2 molecules with a long biocidal effect and long lasting residual, for the right price and in the right packaging. The potential for our technology is far reaching; applications range from drinking water, animal health, food industry, bio security, etc.

Chlorine dioxide (Clo₂) is not same as chlorine (Cl) :

Although chlorine dioxide (ClO₂) has chlorine as part of the name is chlorine dioxide chemistry quite different from the chemistry of chlorine. A single atom can mean all the world difference.

The difference between chlorine(Cl), and chlorine dioxide(Clo₂), resulting from their different chemical structure – and this is what determines their significantly different chemical reactions.

Chlorine dioxide does not form chlorinated disinfection byproducts. The use of chlorine dioxide instead of chlorine prevents the formation of harmful halogenated disinfection by-products, for example trihalomethanes (THM) and halogenated acidic acids.

Chlorine dioxide does not react with ammonia nitrogen, amines or other oxidizable organic matter. Chlorine dioxide removes substances that can form trihalomethanes (THM) and improves coagulation. It does not oxidize bromide into bromine.

100% Utilisation for bacteria kill	General Oxidant	Corrosive	Hazardous in use	After pH?	Produce harmful by-products	Will produce chlorine	Specific to targeting bacteria	Leaves Residues on product	Tainting Issues	Reacts with hydrocarbons	Operate in turbid water	Clo ₂ advantages Comparison chart
✓	X	X	X	X	X	X	✓	X	X	X	✓	Chlorine Dioxide
X	✓	✓	✓	✓	✓	X	X	X	X	✓	✓	Hydrogen Peroxide H ₂ O ₂
X	✓	✓	✓	✓	✓	X	X	X	X	✓	✓	Ozone O ₃
X	✓	X	✓	X	✓	X	X	X	X	✓	X	UV
X	✓	✓	✓	✓	✓	X	X	✓	✓	✓	✓	Formic Add
X	X	✓	✓	✓	X	X	X	✓	✓	✓	✓	Organic Add
X	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	Chlorine
X	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	Sodium Hypochlorite, Bleach

Understanding Chlorine Dioxide [Clo₂]

Chlorine dioxide (ClO₂) is not the same as chlorine (Cl):

- Although ClO₂ has chlorine as part of the name is chlorine dioxide chemistry quite different from the chemistry of chlorine.
- A single atom can mean all the world difference.
- The difference between chlorine (Cl) and chlorine dioxide (ClO₂), resulting from their different chemical structure – and this is what determines their significantly different chemical reactions.

Chlorine dioxide's advantages over chlorine:

- Among the advantages of Clo₂ can also be mentioned that, there will be no chlorinated by-products, there is a positive effect associated with flocculation of water, or other water chemical additives.
- Another advantage of Clo₂, more adjacent to the disinfection, the Clo₂ does not react with ammonium. This may therefore be advantageous when ammonium content in the water is high.
- Superior disinfection capability was recorded with chlorine dioxide in the presence of enteric bacteria, Legionella, Pseudomonas aeruginosa, and others. In bathing water, drinking water, cooling water, process water, food and many more.



THE BEST STRUCTURE INDUSTRIAL SDN BHD (802457-K)

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www.thebest.com.my | sales@thebest.com.my | H/P: 019-221 8188 | Tel: 03-8962 2822 | Fax: 03-8962 2832

Sources: Bactore Malaysia

About Our Chlorine Dioxide

Chlorine dioxide (Clo2) exists as a gas at normal temperatures and pressures and has the chemical formula ClO2. It is a highly effective, eco-friendly microbicide that carries a number of important regulatory approvals from several international organisations including the US EPA, FDA and UK Government for many of its uses.

Chlorine dioxide is a strong bactericide and virucide at concentrations as low as 0.1 ppm. It will eliminate both planktonic and sessile bacteria; disinfect surfaces; and rapidly destroy problematic biofilm. With minimal contact time, it is highly effective against many pathogenic organisms including bacterial spores, Legionella, Tuberculosis, MRSA, VRE, Listeria, Salmonella, amoebal cysts, Giardia cysts, E. coli, and Cryptosporidium. Importantly, chlorine dioxide also destroys biofilm so bacterial re-growth is significantly impeded.

**Broad spectrum biocide**

Chlorine dioxide is highly effective when used to control:

- Bacterial spores
- Legionella (Legionnaires' disease)
- Biofilm
- Tuberculosis
- Salmonella
- Cryptosporidium
- Giardia cysts
- Coliforms
- MRSA
- Listeria
- Shigella
- Algae
- Amoebae
- Taste and odour
- THM/HMM formation
- Planktonic and sessile organisms
- VRE

Chlorine dioxide has long been recognised as a very effective biocide and sterilising agent for both large and small scale industrial and commercial applications. It is approved and recommended by the United States Environmental Protection Agency (US EPA) as an environmentally friendly drinking water additive to replace chlorine (which is known to form carcinogenic by-products).

The criteria for disinfection, as defined by the US EPA, are as follows:

- a 99.9% reduction in giardia lamblia (3 log reduction).
- zero lactose fermenting coliform.
- less than 10 cfu/ml non-lactose fermenting coliforms.
- 99.99% reduction in enteric virus (4 log) concentrations.

Chlorine dioxide meets these criteria and is now used extensively across the US, UK and Europe. In the UK, the Building Services Research and Information Association (BSRIA) has recommended chlorine dioxide as the best available technology for the control of Legionella bacteria in hot and cold water systems.

Applications & Protection

Bactore product actives has abilities to provide ultimate bacteria solution to ensure safe & effective disinfection, sanitization, and sterilization against pathogens. This is to prevent the RISK of spreading harmful microorganisms and cross-contamination of bacteria.

- ✓ **Sanitize & Kills Bacteria**
- ✓ **Disinfect & Eliminate Viruses**
- ✓ **Sterilize & Prevent Fungicide, Algae-Cyanobacteria, Microbial Corrosion**

Environmental Friendly: Treating and Sterilizing Water

Since the beginning of the twentieth century, when it was first used at a spa in Ostend, Belgium, chlorine dioxide has been known as a powerful disinfectant of water. During the 1950s, it was introduced more generally as a drinking water disinfectant since it provided less organoleptic hindering than chlorine. Approximately 700 to 900 public water systems use chlorine dioxide to treat potable water (Hoehn, 1992).

Today, the major uses of chlorine dioxide are:

- CT disinfection credit;
- Pre-oxidant to control tastes and odour;
- Control of iron and manganese; and
- Control of hydrogen sulfide and phenolic compounds. For water treatment, chlorine dioxide has several advantages over Chlorine: Report by the US EPA (US Environmental Protecting Agency)

Chlorine Dioxide (Clo2) Applications

Chlorine dioxide is now recognised as one of the safest, most effective biocides and sterilising agents available today. As a result it is widely used in both large and small-scale industrial and commercial applications where a potent but environmentally friendly biocide is required.

Chlorine dioxide is effective over a wide pH range in both hard and soft water and does not react with most other water treatment chemicals. Many of its uses and applications are US EPA, FDA, UK Government approved and highly recommended by many researchers and research establishments throughout the world.



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SOURCES: LANGFANG YUANMAO GROUP CO

Very Safe Disinfectant Chlorine Dioxide Tablet for Kitchen Disinfection

Name: Chlorine Dioxide Tablet

Size: 1g, 20g

State: Effervescent Tablet

Concentration: 8% 10%

What are chlorine dioxide tablets

Chlorine Dioxide (CLO2) tablets are a blend of precursor chemicals which when added to the pool water then forms Chlorine Dioxide. Ideal for elimination of Cryptosporidium and Chloramines. Little 'down time' of swimming pool as there is no need for Chlorine reduction after use.

What are the advantages to use Chlorine Dioxide for Kitchen Disinfection

Chlorine Dioxide is the fourth generation disinfectant for sterilization. It has been recognized as level A1 disinfectant with its broad spectrum, high efficiency and non toxicity by WHO. USEPA, FDA, Sanitary Regulation of Japanese and EU declare that it is a green and environmental protect substitute for chlorine disinfectant. This product is highly refined preparations containing chlorine dioxide and its derivatives, safe, non-toxic and convenient.

This disinfectant is specially developed for tableware sterilization. It can quickly kill pathogenic bacteria and viruses on tableware, drink utensil, and kitchenware without any side effect on human body.

How To Use

Wash all table wares clean, and Soak them in chlorine dioxide solution of appropriate concentration. This will save a lot cost which is spent on steaming and human source. All table wares could be directly used without swilling.

Application Range

1. Tableware, drink utensil and kitchenware sterilization
2. Tea and milk stains removal

Safety Performance

Chlorine dioxide has been proved non-toxic thorough many experiments in home and abroad. It won't produce three-pathogenic substances and other poisonous substance. It is a broad spectrum disinfectant without any stimulation to human body. And there is no residue for the decomposition product are water, sodium chloride and carbon dioxide.

Approving Time by Different Countries

Time	Country	Approval Authority	Range of Application
1992		WHO	Drinking Water Disinfection
1987	Germany		Drinking Water Disinfection
1985	America	FDA	Food Processing Equipment Disinfection
1987	America	EPA	Disinfection for Food Processing Factory & Beer Brewery & Restaurant & Hospital, etc
1989	America	EPA	Disinfection for Store Water & Animal Shelters
1988	Japan	Ministry of Health	Drinking Water Disinfection
1987	Australia	Ministry of Health	Food Additives #926, Food Bleaching Agents
1987	China	Ministry of Health	Disinfection for Food Industry & Medical & Pharmacy & Livestock & Aquaculture & Public Environment, etc
1996	China	Ministry of Health	Food Additives for Aquatic and Fresh Products
2002	America	FDA	Disinfection for Food Processing Equipment & Pipes & Milk Processing Plants
2005	China	Ministry of Health	Drinking Water Disinfection

Its safety is regarded as A1 level by the world health organization (WHO).

AUTHENTICATION

BV Testing Report



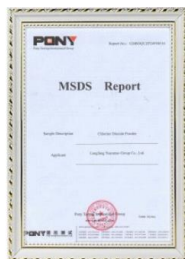
BV Testing report of tablet



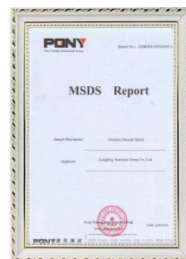
COA-10% Chlorine Dioxide Powder



COA-10% Chlorine Dioxide Tablet



MSDS-Chlorine Dioxide Powder

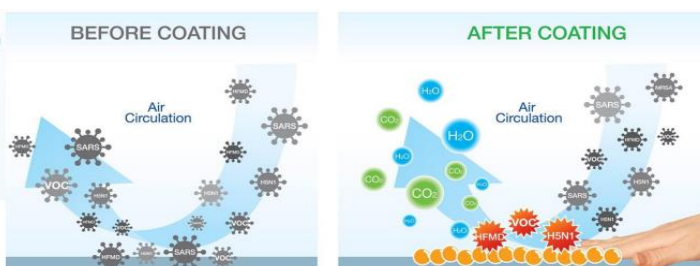


MSDS-Chlorine Dioxide Tablet

**THE BEST STRUCTURE INDUSTRIAL SDN BHD (802457-K)**

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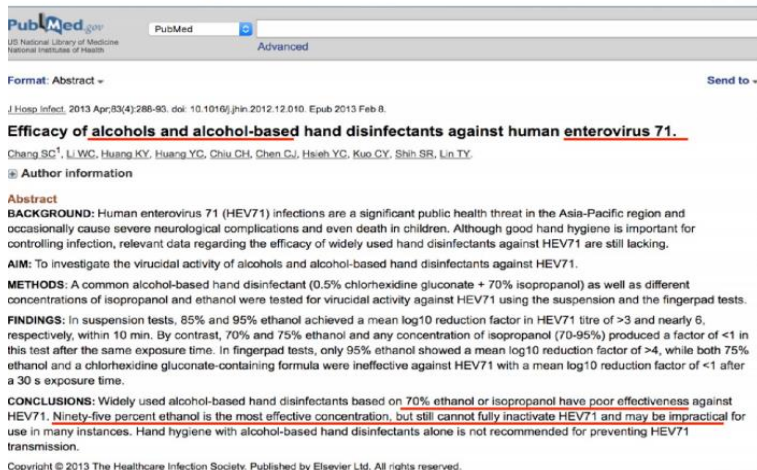


- Attacking membrane lipids
- Breaking apart nucleic acids (DNA and RNA)
- Denaturing proteins
- Disrupting cell wall permeability
- Oxidizing the bonds in proteins, enzymes and other metabolites.

asylea™ Australia	Alcohol (70% & Above)	Bleach
----------------------	--------------------------	--------

Bactericidal	Yes	Yes	Yes
Virucidal	Yes	May be	No
Microbial Performance	< 5 Second	< 15 Second	5 Min (Soak)
Toxicology	Safe	Poisonous	Poisonous
Flammable	No	Yes	No
Easy to use	Yes	Yes	Yes
Germistatic (Long Lasting Protection)	Yes	No	No

Need at least 70% to be effective for bactericidal,
However, even at 95%, it is not able to be virucidal for
enterovirus 71 (HFMD)



Germicide Challenge (Alcohol)

Need to soak at least 5 minutes to see the effectiveness.

Germicide Challenge (Bleach)



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KEMENTERIAN KESIHATAN MALAYSIA
MINISTRY OF HEALTH MALAYSIA
 Bahagian Kawalan Penyakit
 Ares 2, Blok E3, Kompleks E
 Pusat Pentadbiran Kerajaan Persekutuan
 62590 PUTRAJAYA
 MALAYSIA

Tel : 03-8992 4000
 Faks : 03-8992 4526
 Laman Web: www.moh.gov.my

Ruj. Tuan :
 Ruj. Kami : KKM-500-6/4/2 Jld. 6 (66)
 Tarikh : 10 April 2020

Tuan,

CADANGAN PEMBEKALAN PRODUK ASYLEA SEBAGAI BAHAN PEMBASMIAN KUMAN UNTUK PENCEGAHAN COVID-19

Dengan segala hormatnya saya merujuk kepada perkara tersebut di atas dan surat daripada pihak tuan yang telah diterima oleh pihak kami pada 1 April 2020.

2. Terlebih dahulu Kementerian ini mengucapkan terima kasih di atas cadangan pihak Tuan untuk pembekalan bahan pembasmi kuman untuk pencegahan COVID-19. Kementerian Kesihatan Malaysia (KKM) mengambil maklum berhubung permohonan pihak Tuan untuk membekalkan produk Asylea sebagai bahan pembasmi kuman untuk pencegahan COVID-19.

3. Sehubungan itu, sekiranya terdapat keperluan, pihak KKM akan menghubungi pihak Tuan untuk tindakan selanjutnya.

Sekian, terima kasih.

"BERKHIDMAT UNTUK NEGARA"

Saya yang menjalankan amanah,

(DR. NORHAYATI BINTI RUSLI)
 Pengarah Kawalan Penyakit
 Kementerian Kesihatan Malaysia

Ministry Of Health Malaysia
 Kementerian Kesihatan Malaysia
 (KKM)

JABATAN PERTANIAN MALAYSIA
DEPARTMENT OF AGRICULTURE
 Bahagian Kawalan Racun Perosak
 Pestisida Control Division
 Tingkat 4 - 6, Wisma Tani
 Jalan Sultan Salahuddin
 60632 KUALA LUMPUR
 MALAYSIA

Tel: 603-2030 1400
 Faks: 603-2881 7551
 Laman Web: www.doa.gov.my

Ruj. Kami : JP KRP 207/12/705
 (Char Ref) Jld.16(60)
 Tarikh : 3 July, 2015
 (Date)

Sir/Madam,
Active Ingredient : SILICON DIOXIDE, TITANIUM DIOXIDE

Your letter dated 29 June 2015 is referred.

2. Kindly be informed that above mentioned product do not require registration from Pesticide Board because does not contain any active ingredient as listed in the First Schedule of the Pesticide Act 1974.

Thank you.

Yours sincerely,

HALIMAT SYEDHUSSEIN
 Secretary,
 Pesticides Board Malaysia

Department of Agriculture Malaysia
 Jabatan Pertanian Malaysia

TEST REPORT

REPORT NO: R303A1/15/B19-26 PAGE: 2 of 2

This report supersedes Report No: R303/15/B19-26 which is hereby withdrawn.

This report is NOT a Quality Assurance Certificate NOR an Approval Permit. This report refers only to samples submitted by the customer to SIRIM Berhad and tested by SIRIM Berhad. This report shall not be reproduced, except in full and shall not be used for advertising purposes by any means or forms without written approval from President & CEO of SIRIM Berhad.

Results

Bactericidal activity of Airguard Premium:

No	Challenge Microorganism	Initial inoculum (N ₀)	CFU/ml in test mixture after 30 minutes contact time			CFU/ml in test mixture after 10 days contact time		
			Test Sample: Airguard (N ₁)	Control Sample: Sterile Tryptone Water	Cell reduction (%)	Test Sample: Airguard (N ₂)	Control Sample: Sterile Tryptone Water	Cell reduction (%)
1.	<i>Escherichia coli</i> ATCC 8739	4.30 x 10 ⁷ /ml	5.75 x 10 ⁷ /ml	4.15 x 10 ⁷ /ml	98.6628	0 /ml	5.35 x 10 ⁷ /ml	99.9999

Notes:
 *cfu = colony forming unit
 N₀ = Number of cells per ml in the test sample at the beginning of the contact time (time=0)
 *Percentage Reduction of viable cells = $\frac{N_0 - N_t}{N_0} \times 100$

MOHD KHAZUL AZWAN AHMAD
 Researcher
 Industrial Biotechnology Research Centre
 SIRIM Berhad

SIRIM BERHAD, Malaysia:
 Efficacy Challenge E. Coli (ATCC 8739)
 Kills > 99.999%

Final Report: VIRUCIDAL HARD-SURFACE EFFICACY TEST-
 MERS-Coronavirus (MERS-CoV)

RESULTS (continued)

Table 5
Viability Control Results

Cell Viability Control
0/4
Cells were viable; media was sterile

Table 6
Viral Reduction

Contact Time	Viral Load		Log ₁₀ Reduction*	Percent Reduction
	Input Load* (Log ₁₀ TCID ₅₀)	Output Load* (Log ₁₀ TCID ₅₀)		
20 minutes	6.85	≤ 3.10	≥ 3.75	≥ 99.9%

CONCLUSIONS

According to the regulatory agency, the test substance passes the Virucidal Hard-Surface Efficacy Test if there is complete inactivation of the challenge virus at all dilutions. When cytotoxicity is evident, at least a three-log₁₀ reduction in titer must be demonstrated beyond the cytotoxic level.

When tested as described, airGUARD passed the Virucidal Hard-Surface Efficacy Test when MERS-Coronavirus (MERS-CoV), containing 5% organic load, was exposed to the test substance for 20 minutes at 20°C. All of the controls met the criteria for a valid test. These conclusions are based on observed data.

United States (EPA)
 Corona virus (MERS-coV)
 Virucidal Efficacy Challenge Kills>99.9%



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SETSCO
SETSCO SERVICES PTE LTD

Date : 12/05/2015

Page 1 of 1

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Singapore 608929
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Fax: (65) 6566 7718
Website: www.setsco.com
Business Reg. No. 1908963289D

Our Ref : CH-44680/LZP

TEST REPORT

(This Report is issued subject to the Terms & conditions set out below)

Subject

: Residual efficacy test on one sample of 'AIR GUARD 365' submitted by Mimiza (Singapore) Pte Ltd on 28/04/2015 and test commenced on 29/04/2015.

Tested For

: Mimizu (Singapore) Pte Ltd
26 Sin Ming Lane #07-122
Midview City
Singapore 573971
Attn : Mr K W Chin

Test Method

: Client's Method

Test Condition

: Floor tile surface were contaminated with 10⁸ cfu/ml *E. coli* bacteria innoculum and air dried in a biohazard hood for 48 minutes then swab-test were conducted. 'AIR GUARD 365' were sprayed on the *E. coli* bacteria contaminated floor tile surface and allow for 10 minutes, following swab sample being collected on the floor surface.

Sample Description

: One sample received in sealed plastic bottle with the following marking: 'AIR GUARD 365'.

Results :

Before cfu/swab	After cfu/swab	Reduction Rate %
8.1 × 10 ⁸	80	99.99

Conclusion : Based on the above observation, the sample as received exhibited 99.99% bacteria reduction of the above testing strains.



LEI ZHI PEI
SENIOR MANAGER
BIOLOGICAL & CHEMICAL TECHNOLOGY DIVISION

**Singapore's Lab Test:
Kills 99.99% germs**

[illegible]

TEST REPORT Air Guard:
EUROPEAN CERTIFIED
In-compliance with the limits as set by
ROHS Directive 2011/65/EU Annex II

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

June 28, 2005

ACTION MEMORANDUM

SUBJECT: Inert Ingredient Tolerance Reassessment – Titanium Dioxide

FROM: Dan Rosenblatt, Chief
Minor Use Inerts, and Dan Voss, Response Branch

TO: Lois A. Rossi, Director
Registration Division

I. FQPA REASSESSMENT ACTION

Action: Reassessment of two (2) inert ingredient exemptions from the requirement of a tolerance.

Chemical and Use Summary: See table below.

Table 1. Tolerance Exemptions Being Reassessed in this Document				
Tolerance Exemption Expiration	40 CFR §	Use Patterns (Pesticidal)	CAS Reg No.	List Classification
Titanium dioxide (CAS Reg. No. 13463-67-7)	180.920 ¹	Pigment/coloring agent in plastic bags used to wrap growing beans (preharvest), colorant on seeds for planting	13463-67-7	4B
Titanium dioxide (CAS Reg. No. 13463-67-7)	180.930 ²	Pigment/colorant in pesticide formulations for animal tag		

1. Residues listed in 40 CFR [180.920 (formerly 40 CFR) 180.100(i)(d)] are exempted from the requirement of a tolerance when used as inert ingredients in pesticide formulations when applied to growing crops only.

2. Residues listed in 40 CFR [180.930 (formerly 40 CFR) 180.100(e)] are exempted from the requirement of a tolerance when used as inert ingredients in pesticide formulations when applied to animals.

**United States EPA:
Raw Materials Safety Compliance**

DATE SAMPLE RECEIVED : 11 September 2014

SAMPLE DESCRIPTION : One sample

SAMPLE MARKING : AMS 4

MICROBIAL CHALLENGE TEST

Organism	Time	Inoculum Count (cfu/ml)	30 Mins	1 Hour	Day 1	Day 5	Day 10
<i>Staphylococcus aureus</i> ATCC 6538		7.0×10^2	ND (<10)	ND (<10)	ND (<10)		ND (<10)
<i>Escherichia coli</i> ATCC 8739		3.7×10^6	ND (<10)	ND (<10)	ND (<10)		ND (<10)
<i>Pseudomonas aeruginosa</i> ATCC 9027		5.2×10^6	ND (<10)	ND (<10)	ND (<10)		ND (<10)
<i>Aspergillus niger</i> ATCC 16404		3.3×10^6	5.7×10^4	9.4×10^5	ND (<10)		ND (<10)
<i>Candida albicans</i> ATCC 10231		4.0×10^6	ND (<10)	ND (<10)	ND (<10)		ND (<10)
Method Reference	USP <51>						

ND: Not Detected

Remark: Inoculum count between 10^5 to 10^6 cfu/ml product was injected into the sample
USP: United States Pharmacopoeia



Lee Su Ann
Microbiologist
BSc. (Hons), Microbiology

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Off Jalan Klang Kepong, Jalan Klang Tiga, Kepong
Kuala Lumpur 60005 Sabah
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Fax: (6086) - 438 517

Laboratory Testing & Industrial Consultancy

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535451

ALS Laboratory Group:
Microbial Challenge Test (10 Days)
Escherichia Coll – N.D.
MRSA (Staphylococcus aureus) – N.D.
Pseudomonas Aeruginosa – N.D.
MOLD (Aspergillus niger) – N.D.
YEAST (Candida Albicans) – N.D.



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