



water purification
solutions and cleaning

COMPANY PROFILE 2019

PT. WPSC ASIA TENGGARA



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ABOUT US

Where there is water there is a need for disinfection
TwinOxide® is the perfect solution.



TwinOxide® Worldwide Global Market Place.



Chlorine Dioxide redefining the world of water disinfection

PT. WPSC Asia Tenggara has been established in Indonesia and Malaysia in year 2018. As distributor for water purification solution and cleaning product at Southeast Asia.

The main office at Batam with facility is located approx. 15km south of Singapore in a Free Trade Zone on Batam Island. Our main office and yard situated at Jl. Brigjend Katamso, Rt04/RW 11 Sei Binti – Sagulung. Tanjung

Our mission is to enhance our customer satisfaction through continual improvement of our business practices in terms of safety, quality, services, delivery a good expectations, environmental protection, as well as the expansion of our business operations.

Our Vision is creates the synergy between product and service, in the provision of unequalled value for customers, employees, and the greater community

SERVICE AND MANAGEMENT



**Where there is water there is a need for disinfection
Chlorine Dioxide is the perfect solution.**

PT. WPSC Asia Tenggara boasts a strong commitment to both product and service. The success of our business has been its lifelong commitment to a 'service first approach'. With skilled and experienced staff available to assist in trouble shooting and onsite management, WPSC will work alongside you to achieve your desired outcome.

What We Do :

- Technical onsite service
- Chemical supply & custom formula
tion solutions
- Equipment servicing & preventative-
maintenance
- Design, build, construct and install of
packaged plants
- Engineering
- Water treatment consultation
- Auditing
- Remote monitoring

Our aim is to provide;

- Competitive pricing
- Realised projected services
- Technical applications experience
- Compliance with governing regulations and policies
- Optimisation of the treatment program
- Prevention of plant downtime
- Extend equipment life

Logistic;

- Our research and world class laboratory for our formulations is based in Melbourne, Australia.
- Our formulation blending and manufacturing facility is in Shah Alam, Malaysia.
- Our Store and Warehouse base facility is in Batam, Indonesia.
- WPSC also has the capacity to design and build delivery systems tailored to the application.
- We are able to ship any of our product and solutions to anywhere in the ASEAN

PRODUCT

Where there is water there is a need for disinfection
Chlorine Dioxide is the perfect solution.

About Chlorine Dioxide

Chlorine Dioxide is a unique, advanced delivery system of two solid components.

Chlorine Dioxide generates a chlorine dioxide solution that is applied as a (drinking) water disinfectant. It is delivered as a powder or tablet kit of Component A and Component B. Once added to water, Chlorine Dioxide reacts to a stable chlorine dioxide solution. The solid Chlorine Dioxide kits are easy to store and distribute and have a shelf life of 5 years.

Superior disinfection power

There is a significant chemical difference between Chlorine Dioxide and chlorine and chlorine-type disinfectants. Although chlorine can be found in the name, the product is not a chlorine-type disinfectant. When the Chlorine Dioxide solution is applied, the chlorine dioxide molecule kills the full spectrum of bacteria, algae, fungi, spores, protozoan, yeast, methanogens, viruses, mold and biofilm by its great oxidizing capacity. Clean water can get infected in pipelines because of biofilm. In contrast with other chlorine and chlorine-type disinfectants, Chlorine Dioxide is the perfect solution to remove biofilm


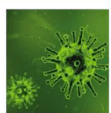
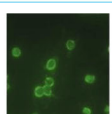
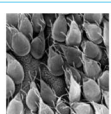
Very efficient dosage and water disinfection

In general, 1 liter of Chlorine Dioxide 0.5 % solution, with a dosage rate between 0.05 – 2.0 ppm will produce up to 60,000 liters of potable water. Deviations of these dosage rates are likely.

www.wpscasia.com



CT Values for 99% kill in 1 minute

 Bacteria ClO ₂ 0.19 ppm/min	 Viruses ClO ₂ 2.8 ppm/min
 Cryptosporidium ClO ₂ 40 ppm/min	 Giardia ClO ₂ 7.3 ppm/min

Environment

The chlorine dioxide solution is effective against all micro-organisms. The use of Chlorine Dioxide does not cause a load on the environment as the rest products are harmless and negligible. The product is approved according to the worlds' most stringent national laws and regulations.

PRODUCT

Where there is water there is a need for disinfection
Chlorine Dioxide is the perfect solution.



...in a nutshell

Microbiological and chemical advantages

- Powerful inorganic oxidizing agent and free radical with residual disinfection capacity;
- 99.9x% effective against all water-borne microorganisms (spore forming bacteria, viruses, protozoa, fungi and yeast);
- Very short contact time (2-10 minutes);
- Long residual disinfection capacity (up to 72 hours);
- High efficiency in the removal of iron and manganese compounds;
- Destroys algae-related taste and odor compounds;
- Higher yield (up to 260% more oxidation output compared to chlorine);
- Effectively removes prophylaxis on biofilms;
- Steady bactericidal efficacy within a broad pH bandwidth (pH 4 to pH 11);
- No build-up of resistance in microorganisms.

Economic advantages

- More disinfection, less chemistry;
- No investment in a conventional ClO_2 generator;
- No ClO_2 generator maintenance and re-certification;
- Less security measures;
- Lower risk and liability insurance policy;
- Less training, certification and re-certification of qualified personnel;
- Environmental, health & safety factors;
- Lower hazardous material transportation costs;
- No additional chemicals (e.g. pH-level stabilizers) required;
- High material tolerance;
- No corrosion.

Health and environmental advantages

- Does not react to water to form hypochlorous acid (no 'free chlorine');
- Unlike chlorine, TwinOxide® does not react with ammonia, ammonium or most organic compounds;
- Chlorite and chlorate building heavily suppressed;
- Eco-friendly, no undesirable residues;
- Single-product water cleaner and conditioner;
- Effective against airborne pathogens when 'misted';
- TwinOxide® does not chlorinate organic materials;
- Decreases THM's, HAA's, MX and other organic compounds with toxic or carcinogenic properties.

Delivery mechanism

- 5 years guaranteed shelf life powder form;
- Extensive kinetic half time (>30 days) of the stock solution;
- Easy to apply (standard industrial dosage equipment);
- High solubility in water, can be applied in a very short time;
- Up to 72 hour biocidal life when added to water;
- Produces pure ClO_2 ;
- High yield.



Difference between Chlorine Dioxide and chlorine and chlorine-type disinfectants

There is a significant chemical difference between Chlorine dioxide and chlorine and chlorine-type disinfectants (i.e. sodium hypochlorous acid. this is the biocidal component that kills bacteria.

Free chlorine is released by chlorine and chlorine-type disinfectants when added to water. Chlorine Dioxide does not contain free chlorine and works on the active molecule of chlorine dioxide. Although chlorine can be found in the name, the product is not a chlorine to provide disinfection. When Chlorine dioxide 0.3% solution is applied, the chlorine dioxide molecule kills the full spectrum of bacteria, algae, fungi spores, protozoan, yeast, methanogens, viruses, etc.

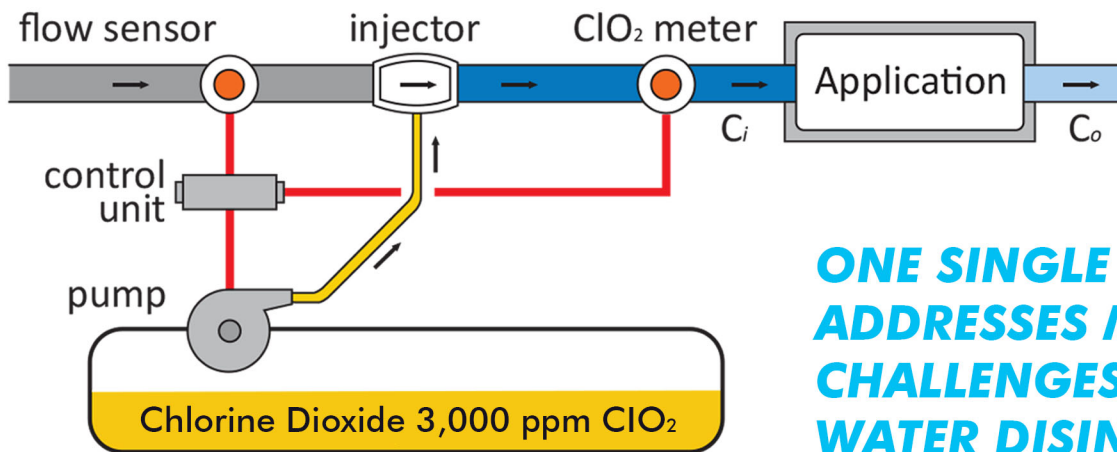
Chlorine Dioxide does not generate by-product and does not need other chemicals to do the job! Chlorine and chlorine-type disinfectants generate disinfectant by-product (DBP). DBP's include carcinogenic compounds that are biologically harmful in minute quantities, e.g. TriHaloMethanes, Haloacetic Acids and Mutagen X. The precursors to generate Chlorine Dioxide ClO_2 solution are fully compliant with the European standard DIN EN 12671 which designates the stringent rules for purity and quality of chemicals used for drinking water disinfection.

PRODUCT

**Where there is water there is a need for disinfection
Chlorine Dioxide is the perfect solution.**

Equipment and Installation

Simple component requirements...



**ONE SINGLE CONCEPT
ADDRESSES MULTIPLE
CHALLENGES IN
WATER DISINFECTION !**

Extensive Research

Before Chlorine Dioxide was offered to the global market place, extensive scientific research and certification were conducted, combined with extensive application tests.

Our company is backed by numerous scientists, engineers, physicians and universities in many countries to provide our customers with all the necessary data and support related to the product.

Eco-Friendly

Chlorine Dioxide is environmentally friendly. The product is approved according to the worlds' most stringent national laws and regulations. Additionally, Chlorine Dioxide meets the EU legislative framework for biocides and is NSF-60 certified in the USA.

By providing a total process for water disinfection based on Chlorine Dioxide we decrease the usage of chlorine and other traditional water disinfectants. This contributes to a better environment and to the general welfare of consumers by providing safer and healthier drinking water. When using Chlorine Dioxide, less chemistry is required to achieve an optimized disinfection result !

APPLICATIONS

**Where there is water there is a need for disinfection
Chlorine Dioxide is the perfect solution.**

Chlorine Dioxide Applications :

With Chlorine Dioxide, all your challenges in water disinfection can be addressed by one single product as Chlorine Dioxide combines multiple functions such as biocide, slimicide, algacide, sporicide, fungicide and corrosion inhibitor, Microbiological control, THM control in pools and spas, sulphide destruction, carcass spraying, chilling water disinfection, etc.



1

POULTRY

- Drinking water disinfection
- Farm house, cleaning & disinfection (broiler, breeder, layer farms)
- Equipment, cleaning & disinfection
- Crate, tub washing & disinfection
- Hatcheries, cleaning & disinfection
- Abattoir, cleaning & disinfection
- Waste water treatment
- Personal hygiene

Drinking water disinfection -

Processing, general purpose cleaning & disinfection -

Equipment, general purpose cleaning & disinfection -

Process line disinfection -

Crate, tub washing & disinfection -

Waste water treatment -

Personal hygiene -

RED MEAT

2



APPLICATIONS

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3

FRUIT/VEGETABLE/ FOOD/RESTAURANT

- Water disinfection online
- Spraying & misting disinfection
- Affected plant disinfection
- Culturing/growing room online disinfection
- Crop spraying disinfection
- Seed washing
- Crate, tub washing & disinfection
- Plant, equipment cleaning & disinfection
- Finished goods washing & disinfection (full spectrum of organisms)
- Waste water treatment
- General purpose cleaners
- Carcass spraying
- Chilled water disinfection
- Cleaning In Place
- Disinfection
- THM control
- Odour control (amines, sulphur compounds)



APPLICATIONS

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4

COMMERCIAL

- General purpose non-hazardous
- Cleaners & degreasers
- Odour control for aromatics removal
- Water storage tank disinfection
- General purpose disinfection
- Algae control, THM control
- Elimination of odours (chloramines)
- Increased pool aesthetics/swimmer comfort

- General purpose cleaners -
- General purpose sanitising -
- Personal hygiene products -
- Personal hygiene -
- Sanitation (Cleaning In Place) -
- Microbiological control -

BAKERIES

5



APPLICATIONS

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6

INDUSTRIAL

- General purpose Medium, heavy duty
- Cleaners & degreasers
- CIP cleaning, Biofilm removal
- Personal hygiene & hand cleaning
- Water storage tank disinfection
- Microbiological control of oil wells and bores
- Sulphide destruction, Pipeline and tank cleaning
- Wastewater disinfection
- Removal of H₂S and phenolic compounds

- Site water supply
- Water storage tank disinfection
- Theatre disinfection
- General disinfection (full spectrum of organisms)
- Instrument disinfection
- Cleaning In Place
- Hot and cold water system sterilization
- Legionella control, Microbiological control

HOSPITAL

7



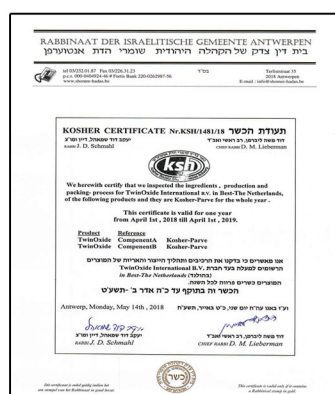
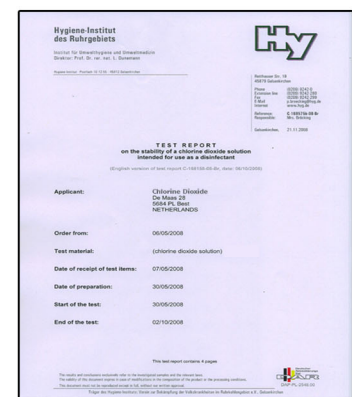
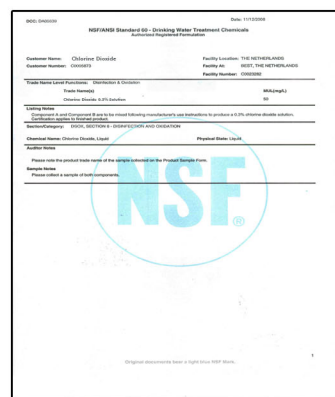
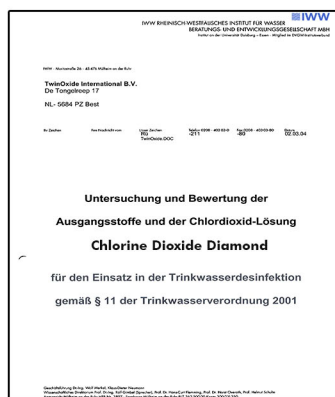
OUR CERTIFICATE

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List Of Chlorine Dioxide Certificate :

1. IWW Approval Certificate (EN12671, German Drinking Water Law, DVGW) Europe / Germany
2. NSA/ANSI Standart 60. DCC:DA05639 (Drinking Water Treatment Chemicals)
3. Hygiene-Institut des Ruhrgebiets (Test Report on the stability of a chlorine dioxide solution intended for use as a disinfectant)
4. Kosher Certificate NR.KSH/1481/18 (Chlorine Dioxide Component A and Component B Kosher-Parve)
5. Total Quality Halal Correct Certification NR.HC1185011841-T2018 (Industrial Water Solution)
6. Certificaciòn OMRI Chlorine Dioxide (R) Component A & B (gct-10801, gct-10872)



OUR CLIENT

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Heathrow
Making every journey better



European Parliament



Eropa dan Amerika

- Remy Leuven (Starch company - Belgium)
- Vivaqua – City of Brussels – Belgium
- Orafit Group (Food Technology)
- British Sugar Union
- Meyer Werfft (Cruise Ships)– Papenburg – Germany
- Municipality of Chisinau – Moldova
- Municipality of Pristina – Kosovo
- Group Danone S.A. – France/Swiss Dairy Company
- Various Municipalities – Greece
- Various Hospitals - Belgium
- Eastman Chemicals (acetate tow treatment for the tobacco industry (e.g. Philip Morris, BAT etc)
- Fluid Sistemas– Sao Paulo - Brasil
- MS Schippers (Live stock drinking water)

Asia

- Style Textiles (Nike Factory) – Lahore - Pakistan
- WASA City of Lahore – Lahore - Pakistan
- 5 WASA's in Punjab – Pakistan
- KWSB, Karachi Water & Sewerage Board – City of Karachi, Pakistan
- Ludhiana Government (drinking water) - India
- Haryana Government (e.g. total drinking water supply to Karnal Town) – India
- Government of Punjab , India
- Delhi Jal Board (Main Water Supply) – New Delhi – India

Timur Tengah

- AES Arabia Ltd. (Power Plant) – Riyadh - Saudi Arabia
- Arwad Ltd. – Riyadh – Saudi Arabia
- Dejla Water & Env. Tech Co – Jeddah – Saudi Arabia
- Saudi Geographical Survey (SGS) King Fahd Complex for Holy Quran Printing – Madinah Munawara – Saudi Arabia
- Zam Zam Water Plant – Madinah Munawara – Saudi Arabia
- City of Makkah, City of Madinah (drinking water) – Saudi Arabia
- Supreme Foods Company – Riyadh – Saudi Arabia
- Dabagh Group – Riyadh – Saudi Arabia
- Dubai Ice Factory, United Arab Emirates
- Kuwait Power and Desalination Authority – Kuwait
- Condessa (Desalination) -Yanbu Al Sinayah – Saudi Arabia
- Mekorot Israel National Water Company – Israel
- Dar Al Taqniya & Wesco – Saudi Arabia
- Bushnak Group – Saudi Arabia





**So
Let's start
NOW**

a healthy life, pure enjoyment



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