



GERMAGIC™ Provide Safer Environment for Royal Thai Consulate-General, Hong Kong

GERMAGIC offered sanitizing and disinfecting services to the Royal Thai Consulate-General, Hong Kong by applying **GERMAGIC™ THYME** in their office on March 20, 2020. Mr. Tull Traisorat, Consul-General of Royal Thai Consulate-General expressed his interest in **GERMAGIC™** products developed by the HKUST-CIL Joint Laboratory of Innovative Environmental Health Technologies and would like to introduce them to Thailand.

Mr. Tull Traisorat met with Mr. Hamilton Hung, Chief Marketing officer of **Chiaphua Industries Limited**, manufacturer of **GERMAGIC™ THYME** and invited **Chiaphua** to set up a production line in Thailand to directly supply the local Thai market and beyond in ASEAN. This disinfectant has been passed by leading testing centers around the world and has an effective period of up to 90 days. It complies with US Environmental Protection Agency (EPA) guidelines in its ability to inactivate the coronavirus that causes the COVID-19 disease. He was impressed by this Hong Kong local invention and admired **Chiaphua's** support to local scientific research.

GERMAGIC™ THYME was developed by a team led by Prof. Yeung King Lun, of the HKUST-CIL Joint Laboratory of Innovative Environmental Health Technologies and delivers a smart coating that is proven to be effective in killing viruses, bacteria and even hard-to-kill spores. It can inactivate up to 99.9 per cent of highly infectious viruses such as measles, mumps and rubella, and 99.9 per cent of surrogate feline calicivirus – a gold standard for disinfection efficiency – and is more resistant than coronaviruses such as the one responsible for the COVID-19 epidemic.

Mr. Hamilton Hung said, 'We are very honored that the Royal Thai Consulate-General, Hong Kong has chosen **GERMAGIC™** products. As a company focusing on local scientific technology research and development, we are very proud of it. As COVID-19 is outbreaking in the world, we hope that we can promote **GERMAGIC™**, this great invention of Hong Kong to the world, and work together with the world to stop the spreading of the virus and make a better community.'

In efforts to help the society fight the COVID-19 outbreak, **Chiaphua Industries Limited** has applied **GERMAGIC™ THYME**, the smart coating to over 150 daycare centers, elderly homes, kindergartens, primary and secondary schools. Other venues include shopping malls, school buses, churches and sport training facilities. CIL has also donated up to HK\$1.5 million worth of anti-microbial air filters – a potent air purification technology developed by Prof Yeung's team in 2017, to various hospitals in the mainland, including Wuhan's emergency Huoshenshan Hospital.



About GERMAGIC™ THYME

The main ingredients of **GERMAGIC™ THYME** is Polyethylenimine and Thyme Essential Oil. The essence of new coating technology lies with the creation of surface moieties that actively disrupt the microbial envelope and biomolecules, rendering microorganisms nonviable upon contact. The coating also prevents microbial adhesion on the surface, thus keeping it free of microbial contaminants. Using a special blend of antimicrobial polymers, the new coating effectively kills up to 99.99 per cent of bacteria and viruses through contact killing and anti-adhesion technology, including Rubella, avian influenza, H1N1 and FCV – a nonenveloped virus that is among the hardest to kill. According to a U.S. EPA guideline in 2016, being effective against FCV is equivalent to being able to inactivate the coronavirus – an enveloped virus that is easier to sterilize than non-enveloped ones.

GERMAGIC™ THYME combines antimicrobial encapsulation with germicidal thyme essential oil for a more long-lasting and durable effect. Our research team has identified thyme essential oil to be the most potent among hundreds of other natural essential oils. Thymol, a terpene from thyme, plays the prominent role in thyme essential oil's antimicrobial effect. The product is designed for use on different surfaces including metals, concrete, wood, glass, plastics as well as fabrics, leathers and textiles without changing the materials' appearance and tactile feel. According to the Technical Standard for Disinfection issued by the National Health Commission in the mainland, the coating is proven to be non-toxic and is safe for skin and the environment. **GERMAGIC™ THYME** is confirmed to be effective against drug-resistant microorganisms during field studies in local hospitals. Its use in hospital privacy curtains saw more than 98.7 per cent reduction in drug-resistant bacteria. It is also a Hong Kong Eco Mark product.

About Chiaphua Industries Limited

From humble beginnings in the early 1920s as a small, privately held metal stamping business, Chiaphua Industries (www.chiaphua.com.hk) has grown into a robust global enterprise.

Chiaphua's long history has given the company a firm foundation from which to build upon for continuing success today. Over the past 50 years, Chiaphua has been involved in the manufacture of an extensive range of industrial and consumer products, including computers, clocks, sea-freight containers, lighters, toys, silver-plated hollowware, security and telecommunications equipment, electrical appliances, motors and power tools. Chiaphua Industries' success is built on the guiding principles of integrity, harmony and partnership laid down by our founding members. These values have enabled us to forge a number of longstanding joint venture alliances with some of the world's biggest and most recognized consumer brand companies.

In addition to our joint venture partnerships, Chiaphua Industries also maintains contract manufacturing relationships with many of the world's leading brand name companies.

GERMAGIC

Germicidal Coating

Through this global network, we enjoy worldwide representation in oral care, household appliances, writing instruments, telecommunications and environmental treatment markets. Besides being a manufacturing powerhouse, we are also expanding into the retail, hospitality and real estate business in recent year following our Group's success. Chiaphua Industries is a highly respected multinational and has considerable international stature. It is recognized for its entrepreneurial spirit and its strong sense of integrity, garnering the respect and loyalty of world-class customers and partners. In its continued commitment to excellence, the organization encompasses traditional values of Enterprise and Harmony. Commitment to excellence has been achieved through working closing with Chinese and overseas organizations in research and development, enabling Chiaphua to introduce innovative products to world markets.

GERMAGIC is a germicidal technology owned by Chiaphua Industries Limited. The essence of **GERMAGIC** technology is using encapsulation technology for controlled-release of active antimicrobials.

Photo Caption:

01 **GERMAGIC** service team applying the **GERMAGIC™ THYME** coating to the Royal Thai Consulate-General, Hong Kong.

02 Mr. Tull Traisorat, Consul-General of Royal Thai Consulate-General met with Mr. Hamilton Hung, Chief Marketing officer of **Chiaphua Industries Limited**.

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This press release is distributed by N Square Company Limited on behalf of GERMAGIC and Chiaphua Industries Limited

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