

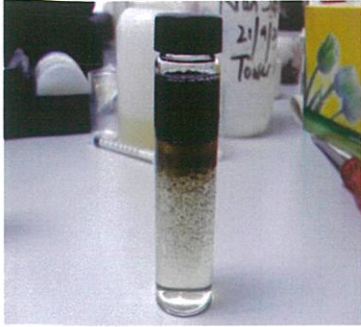


THE TOTAL GREEN SOLUTIONS



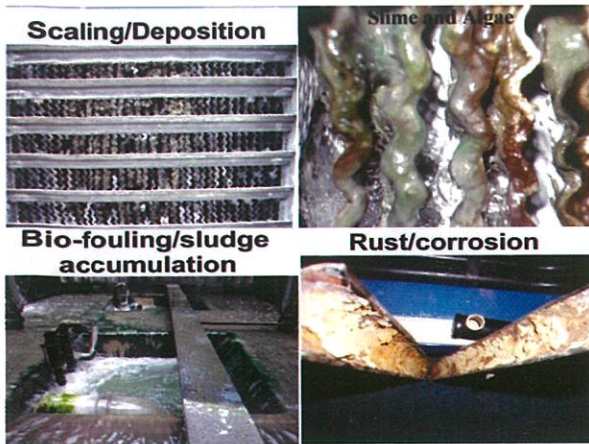
Your Partner To Go Green and Reliable

GREEN WATER TREATMENT PROGRAM



Researches and developments to solve industrial problems in using heavy chemical substances in factories to reduce danger to health, have long been exercised all over the world. **GREENEX™** is one of its kind that is extracted from natural plants which is biodegradable and free from chemical solvent. The solution is not flammable and can thoroughly clean oil or grease stain. It can also help clean dirt stain including Cooling System cleaning where water is used for heat transfer as well as odor control because **GREENEX™** is Natural Surfactant, and plant extracted and non ionic, that has been continuously researched and tested. This substance acts as tiny series of blade to 'Cut Away' adhesion between dirt and substrate (Inter molecular de-bonding) resulting easy cleaning and usage. Hence, from the development of this primary substance, it can be applied to numerous uses in lieu of dangerous chemicals such as Aromatic / Hydrocarbon, Chlorinated Solvent, Harsh Chemicals etc. as follows:

GREENEX™ คือ สารลดแรงตึงผิว (Natural Surfactant) ที่สกัดจากพืช ชนิดไม่มีขั้วไฟฟ้า (Nonionic) ซึ่งผ่านการวิจัยและพัฒนาอย่างต่อเนื่อง ทำให้ได้คุณสมบัติที่โดดเด่น กลไกการทำงานคือ **GREENEX™** ซึ่งเป็น Natural Surfactant ที่ไม่มีขั้วไฟฟ้าจะทำหน้าที่คล้ายกับมีดขนาดเล็กจำนวนมากเพื่อทำหน้าที่ลดแรงยึดเกาะระหว่าง Molecule ของน้ำมันหรือสิ่งสกปรกที่เกาะอยู่บนพื้นผิวให้หลุดออกจากกัน (Inter molecular de-bonding) ทำให้สามารถที่จะกำจัดได้ง่ายและไม่เป็นอุปสรรคต่อการทำงาน



COOLING WATER TREATMENT บำรุงรักษาระบบหล่อเย็น

Scaling, Fouling, Algae & Slime are major problems in Cooling Water as well as corrosion. **GREENEX™** with selective additive can be used effectively in cleaning not only those mentioned but also help reduce a few problems e.g.

- Reduce environmental problem from dangerous chemical solvent usage in cooling system treatment
- Energy saving from cleaner heat exchanger surface and reduce pipe friction loss
- Enhance Zero blow down process
- Improve waste water treatment efficiency
- No chemicals need provides better environment and health
- Provide higher efficiency in Cooling System



WATER FLUSHING

ฟร๊ชล้างถังหล่อเย็น

One of the main problem of Cooling Water System that is used for a long period of time involves deposited Scaling and Fouling in Cooling Fill, Heat Exchanger, Piping, Basin. Although Chemical Treatment Program is used. **GREENEX™** can help solve in Cooling Tower Flushing Program by applying Biochemical Cleaning. The process can remove dirt stain in the system and can be applied to:

- Cooling Tower Water
- Evaporative Condensing Unit
- Chiller Water
- Fire Protection Water Sprinkler System
- Machine Cooling Water System
- Packaged Water Cooled Air Conditioner
- Heat Exchanger CIP



WASTE WATER TREATMENT บำรุงรักษาระบบน้ำเสีย

While the Waste Water Treatment System can be thoroughly cleaned, undesired factors are still existed and it always involves unnecessary upkeep cost, these are:

- Foul Odor
- Oil, Grime & Grease

GREENEX™ can help solve the problems in a short time as it will help protect the building up of such undesired factors above such as Hydrogen (H), Nitrogen (N) and will not create H_2S or NH_3

GREENEX™, as stated, acts like tiny blades that will minimize oil or grease particles to reduce blockade in pipe work. Hence, it will therefore enhance the efficiency as well as reduce treatment time considerably

WATER BASED CLEANING SOLUTION



HEAVY DUTY INDUSTRY CLEANING ล้างงานสกปรก

In Heavy Industry such as Oil Refinery, Gas Aromatics, Power Station, Steel Factory, Petrochemical Factory and Paper and Pulp etc., shut down for service seems to be quite a big issue. High efficiency cleaning protocol is therefore a must to reduce a complete shut down.

GREENEX™ has developed Cleaning Agent which is effective, safe to use, and also is environmentally friendly and be used for

- Tank Farm , Reactor Tank and Storage Tank Cleaning
- ISO Tank , Oil Truck , Slop tank and Oil Tanker Ship Cleaning
- Fin Fan , Heat Exchanger , Cooling Tower and Tower Pack Cleaning
- Wet Scrubber Media and Activated Carbon Cleaning
- Pipe Cleaning
- Green Cleaning Application



CRITICAL INDUSTRY CLEANING ล้างงานความสะอาดสูง

Critical Industry Cleaning Solution (Precision Cleaning) by using **GREENEX™** product combined with Ultrasonic machine it will be easy for production process. Hence

GREENEX™ is water based cleaning agent no harsh chemical ,solvent, silicone and PBB & PBDE substances high safety profile for worker and work place can be use in

- Electronic Industry such as PCB Cleaning , HDD Cleaning
- Automotive Industry such as Mold , Bearing Cleaning
- Electrical Wire Cleaning
- Extruder Cleaning
- Pharmaceutical industry Cleaning
- Gasket Cleaning
- Food Industry Cleaning
- Telephone Part Cleaning



OIL, GREASE & RUST REMOVER ล้างน้ำมันและจารบี

Oil & Grease always occur on heavy machine surfaces including in food processing plants or restaurants, hotels etc. Normally, Sodium hydroxide (Na OH) or Cutting oil is used to remove such dirt, these cleaners still cling to the surfaces and are hard to remove. **GREENEX™** can be effectively used in lieu of those strong chemical substances. It can be safely applied on equipment as such:

- Frying and Grilling equipment
- Paint Drying Chamber
- Fume Hood
- Greasy or Oily surfaces
- Oily parts or components from steel lathes, molds or rusts
- Automotive engines or machines



GENERAL CLEANING

ล้างงานทั่วไป

GREENEX™ is not only suitable for industrial use, the products are also suitable superbly for household such as:

- Hand Washer / Dish Washer
- Cloth washing both hand wash and machine wash as there is no starch mixed in the product and will not create foul odor for long time soaking
- Floor Cleaning/Carpet Cleaning
- Toilet / Bathroom, Sanitary Ware and Ablution Area Cleaning
- Glass cleaning
- Fin Coil in Air Conditioning system both automotive and household

Not only cleanliness gain, cost efficiency gain is also its main factor.

GREENEX™ does not kill micro organism but will help minimize dirt particles which results effective waste water treatment.

POLLUTION TREATMENT PROGRAM



ODOR SUPPRESSOR

ดูดซับกลิ่นไม่พึงประสงค์

Unpleasant Odor from refuse, foul water, chemical odor is one of the main problems which affects the general environment and lifestyle severely. Methods of solving such problems are not easy and costly. **GREENEX™** can be the answer to those troublesome effectively. The process of clearing of **GREENEX™** is simply blocking the chemical reaction of Nitrogen (N) and Hydrogen (H) with other matters not to create H_2S or NH_3 and can be applied by mixing with water and spray on required areas to suppress the odor such as

- Waste Water Treatment
- Refuse Tip
- Ablution Areas, Smoking Areas
- Raw Rubber Stock Area
- Hospital, Theaters or Food Courts, Restaurants
- Animals Wastes e.g. Poultry Farms, Pig Farms, Bio Gas Plants for Pet etc.

OIL SPILL

กำจัดน้ำมันที่รั่วไหล

Oil Spill can affect environment badly and takes a long process to cure. **GREENEX™** realizes the said problem and has developed a particular product to fight against such pollution:

- Oil leakage from factory to natural watercourses
- Oil tankers accidents on public access.
- Oil tankers accidents in the sea
- Other accidents that cause oil spill

GREENEX™ team can help solve such problems with our Turnkey Service Advisor or Supervisor who is willing to listen and assist on the problems

WET SCRUBBER & VOC CONTROL

ลดมลภาวะทางอากาศ

The purpose of Wet Scrubber is to prevent air pollution which can occur during production process. These could be chemical fume, poison fume etc. By applying **GREENEX™** Wet Scrubber, the escalation in work efficiency can be detected such as:

- Higher efficiency in catching poisonous matters
- Lengthen the life of Media or Activated Carbon
- Reduce waste water treatment problems
- Reduce corrosive action in Wet Scrubber
- Reduce leaked foul odor or poisonous matters
- Volatile Organic Compound (VOC) is recently introduced to be exercised for those factories who are preparing to enter ISO 18000 standard. This standard involves safety and bio health stated by OSHA. Again **GREENEX™** can help solve VOC resulted by all kinds of Hydrocarbon e.g. Benzene (C_6H_6).

Besides, we are still carrying out searching and developing that can be applied to other industrial needs such as Boiler Water Treatment , Inside Engine Cleaning, On-Line Cleaning , Turbine Cleaning , Automatic Cleaning , Oil Recovery , Sand Oil Recovery etc.. In addition to those mentioned, we are happy to stress that we can help implement Customized Applications in order to achieve Green Factory & Building Concept. Please do not hesitate to let us know, as we will be more than happy to assist you.

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