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enviroment



INDUSTRIAL

# PRODUCT CATALOGUE



PT. GETSEMANI BENINDO INDONESIA



# ABOUT US



Incorporated in 2014, PT Getsemani Benindo Indonesia is a leading specialty cleaning chemicals Manufacturer and Trader that provides chemical solutions to Hospitality, Transportation, Aerospace and Industrial Sectors.

The Production facility is supported with our own R&D Laboratory to fulfill the specialized needs of the various industries.

## OUR BUSINESS

PT Getsemani Benindo Indonesia manufactures more than 30 types of specialty chemicals for the specific

needs of our clients in the various industries. Our clients include airlines, food processing firms Hotel, Hospitals, Heavy machinery Firms, Laundromats etc.

We also do wholesale or retail OEM product for some of our customers. We provide free evaluation of each installation prior to recommendation of the products and equipment. To create value for our customers, apart from our role as a supplier, we are able to provide repair maintenance services in addition to on-the-job training for the various cleaning service.

Our company firmly believes in providing the most value in term of effectiveness and quality to all our customers at the lowest price we can offer. We value feedback a lot and are not afraid to face challenges and problems head on. We provide holistic service to all customers from the planning, installation, testing, operational, maintenance, repair to overhaul stage. With a strong maintenance team, we are able to mobilize our staff to

products supplied. In line with this, new products are continually developed to meet widening sophistication in the needs of industries.

We are in the midst of getting our ISO 9001 : 2008 and ISO 14001:2004 certificates and will update here once we are finally certified.



service any customer with machinery problem relating to our product anytime.

## ADDING VALUE

Our Company relentless pursuit of improving customer service and commitment to provide high quality and cost effective products are added values to the prod-

## OUR PRIDE

Our Company is a specialized manufacturer and supplier of all the warewashing and hygiene chemicals to the Airline and Catering, Hotel, Restaurants and Institution. Our Company ensures that all equipment washed meet the highest hygiene standards.

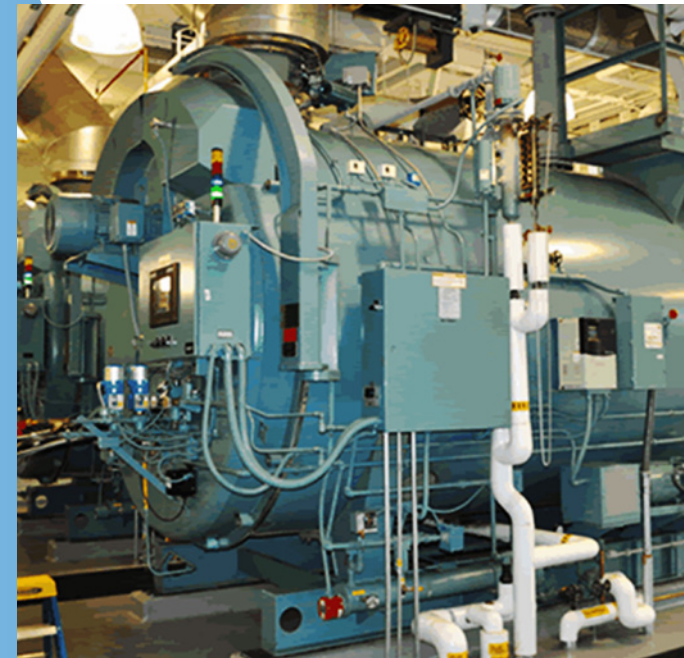


# BOILER



In most industries, Boilers or steam generators are required for heating, drying and or for power generation processes. For these purposes, industrial boilers are generally operated continuously, resulting in the Boiler being particularly vulnerable to the formation of crust and rust. This is due to the continuous heating in the Boiler, so that when water evaporates into steam, the concentration of solids

dissolves in water is higher. And when the concentration of the material (impurities water) has become saturated, it will happen the process of scaling. Continuous scaling process will eventually become one of the causes of rust in Boiler. To prevent and cope with this, in every operation the Boiler is always given a certain "treatment" or treatment by using some of the following chemicals:



## Scale Control (GC-811)

a powder product formulated to bind the mineralized crust to a sludge that does not adhere to the tube. This sludge can be removed when blow down.



## Oxygen scavenger (GC-812)

a product formulated to bind oxygen and prevent corrosion.

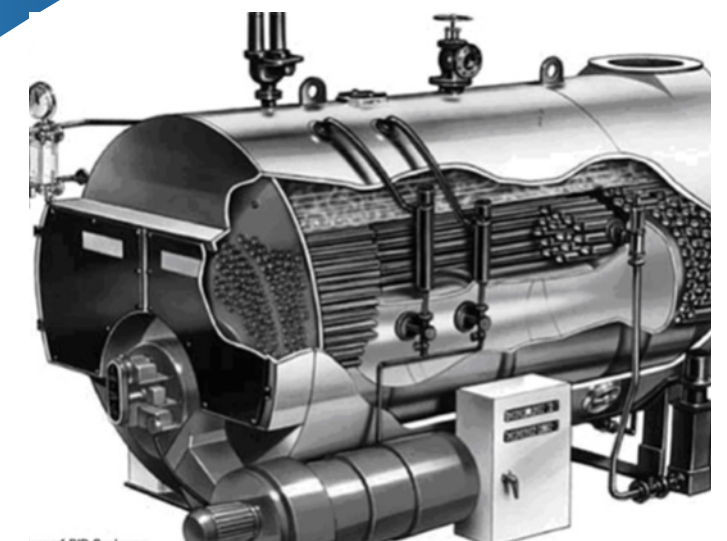
## Steam Line Treatment (GC-813)

a product containing two components of amine volatile with different distribution ratio (low and medium) which is a corrosion inhibitor to control corrosion in the after boiler section by neutralizing acidity of condensate by neutralizing / preventing the formation of carbonate acid free along the steam line.



## Multifunctional Treatment (GC-814)

a product formulated in such a manner comprising a mixture of alkalinity, anti-crust, oxygen scavenger and other controllers necessary to prevent crust and corrosion in the boiler system injected at the optimum dose according to its purpose and condition.







# COOLING TOWER

Cooling tower is a water cooling system with circulated water principle. Water is used as a cooling medium, such as condenser cooling, air conditioning, diesel radiators or other machines.

If water cools an engine unit then this will result in the cooling water rising temperature, such as water with initial temperature (T1) after being used to cool the engine then the temperature is changed to (T2). Here the cooling tower function is to cool back T2 to T1 with blower / fan with the help of wind. Thus the process is repeated continuously. In chiller, the required temperature is relatively lower than the use of Cooling tower.

The difference between cooling and chiller is on the system used. In the cooling tower used open system while the chiller used closed system so that the evaporation process is lower than the open system.

Cooling water quality control will directly affect the performance of the tools that use it, including the distribution pipes that flow cooling water from the cooling tower / chiller to the user. Problems such as a short-lived tool lifetime due to corrosion, low heat exchange efficiency due to accumulation of corrosion, crust or slime (mud) products, and the increase in the consumption of electrical energy to pump cooling water due to clogging of piping and equipment are as a result of low quality cooling water.

Some chemicals are needed to control the cooling water quality so that the above problems do not occur, including:

## Scale Control Agent (GC-821)

a chemical containing scale inhibitors and dispersants specially formulated to control the formation of crust due to the mineral depositing process of hardness or metals contained in water used in the cooling system.

## Corrosion Inhibitor (GC-822)

a liquid metal liquid corrosion inhibitor with a buffer system designed for closed-circuit cooling. This product will protect the metal on the system especially made of copper, aluminum and mixtures thereof.



## Biocide (GC-823)

a highly-effective and effective Anti-Lactic / Anti-bacterial product to control the growth of microorganisms that cause contamination, destruction, and decreased efficiency in industrial cooling systems.

## Dispersant (GC-824)

this product serves to maximize the use of biocide in the process of eradicating moss. Its working power is inhibiting microbial mucus secretion and avoiding the clumping of Biomass or Flock, as well as preventing adhesion of microbial colonies to the surface of the system. This product is effective at low concentrations, but should still be given at the time of biocide use.





## WATER TREATMENT PROCESS

Water treatment is part of a very vital utility unit, ie as a functioning unit in water treatment used to support the activities of the production itself tare for makeup cooling water needs, making demineralized water and to meet clean water needs. Wastewater problems are not as simple as imagined, because wastewater treatment requires substantial investment costs and low operating costs. Therefore, wastewater treatment must be done carefully, starting

with careful planning, the implementation of the construction of a wastewater treatment facility (IPAL) or the correct waste treatment unit (UPL), as well as careful operation. Generally the need for the plant will be very much water and necessary so that the location of the plant is chosen near the water source. Some of the chemicals needed in water treatment are as follows:

### Coagulant Aid (GC 831)

is a product formulated to help produce larger deposits and reducing the settling time in the water purification process. This product also serves to neutralize the effects of acid rain on river ecosystems, and neutralizes acidic conditions in soil and water.

### Anionic Flocculant (GC 832)

is an anionic polymer specially formulated to help coagulant in the process of separating solids. Because the content of the monomer residue is low, this type of flocculant is usually used in drinking water treatment to a maximum concentration of 1.0 mg / l, as approved by the Indonesian Ministry of Health.

### Cationic Flocculant (GC 833)

is a cationic polymer used in various wastewater treatment facilities and the industry as a coagulant or sodic conditioning apparatus, to improve the efficiency of the solids separation process with solids.

### Nonionic Flocculant (GC 834)

is an effective nonionic polymer as a coagulation auxiliary or sludge condenser in solid-liquid separation process.

### Heavy Metal Precipitant (GC 835)

is a product specially formulated for precipitating metals primarily from the flow of waste water. This product is effective in the pH range from 6-9 and produces solid precipitation, highly insoluble and easily irrigated sludge particles. Widely used in industrial plating.







## INDUSTRIAL CHEMICAL CLEANER

### pH Conditioner (GC 841)

the product used to adjust the pH (acidity degree) of the waste or water to be treated, this stage is very important as it will determine the dosage of the chemicals to be used next.

### Antifoam (GC-851)

the product which is formulated to prevent foaming (usually occurring in water under alkaline conditions). The occurrence of foam will greatly affect the quality of the water produced.

The need for cleaners for the industrial sector is increasing in recent times, the effectiveness and efficiency of powerful cleaners is necessary to assist the various activities in the sector.



### Carbon Remover (GC-861)

a liquid product specially formulated to remove carbon residues formed by oil or other petroleum products exposed to high temperatures, and to clean oil, lubricants, fuel residues, tar, varnish, etc. which is on the metal surface. This is applied, among others, to clean fuel oil heater, heat.

### Scale Remover (GC-862)

a product used to dissolve and clean up deposits formed on condensers, evaporators, heat exchanger compressor jackets, boilers, diesel cooling systems, and so on. Surfactants in these products can improve the effectiveness of cleaning, and color indicators in products are a simple way to determine effective cleaning. When used in conjunction with sodium chloride, this product is effectively able to remove iron deposits from the metal surface.

### Liquid Degreaser (GC-863)

a water-based concentrate cleaning product formulated to remove and clean accumulation of dirt and grease on solid surfaces.

### AHU Cleaner (GC-864)

is a cleaning liquid specially formulated to clean metal oxides, stains, impurities, etc., in copper, brass and other non-ferrous metals except zinc and galvanized metals. This product is used for AHU fin cleaners / filters, also effective for cleaning rusted metal lined with oily or oil-containing deposits. This product will create a passivation layer on the metal surface after the cleaning process, so that the metal is more resistant to corrosion caused by atmospheric air.

### Rust Remover (GC-865)

a product used to dissolve and clean iron oxides and rust on condensers, evaporators, heat exchangers, compressor jackets, boilers, diesel cooling systems, and so on. The inhibitor compound on this product can improve the effectiveness of cleaning and minimize corrosion at metal bases. This product is safe to use for cleaning stainless steel.

### Odor Control Agent (GC-866)

is a concentrated liquid formulated effectively to minimize and control the foul odor produced by decomposition of organic materials, such as in household waste treatment facilities and Industries, solid waste composting plants, food processing industries, hospitals, slaughter houses, poultry farms, etc. This product can also be used as a disinfectant cleaner for various applications. The way the product works is based on the biocidal activity to inhibit the action of bacteria causing the stench, and to replace the stench of stench with a refreshing pine smell.



## Factory Address

Jl. Kampung Utan Setu Km.1  
Cibuntu, Cibitung, Bekasi  
17520

Telp: 021 - 883 742 57  
Fax: 021 - 883 895 67

## Head Office

Jl. Wolter Monginsidi No. 84A  
Petogogan, Kebayoran Baru  
Jakarta Selatan  
12170

Telp: 021 - 725 31 62  
email: [info@ptgbi.com](mailto:info@ptgbi.com)

[www.getzclean.com](http://www.getzclean.com)