



HAZTECH SOLUTION



HAZTECH SOLUTION (M) SDN. BHD.

CHEMICAL PRODUCTS LIST & CHEMICAL SERVICES

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Background

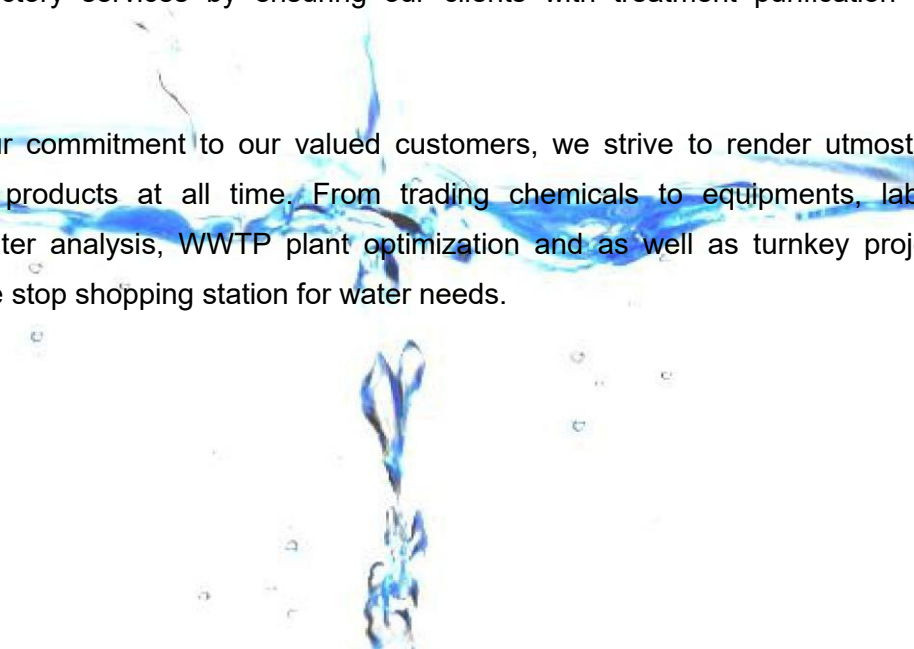
Haztech Solution,

(m) Sdn Bhd a chemical supplier and a technical service provider for entire water treatment needs. Backed by a group of experienced chemist, engineer and technical staff with hand-on experience in various field of water treatment for decades, we specialized in potable water treatment, underground water treatment, wastewater treatment, cooling water treatment and municipal wastewater treatment.










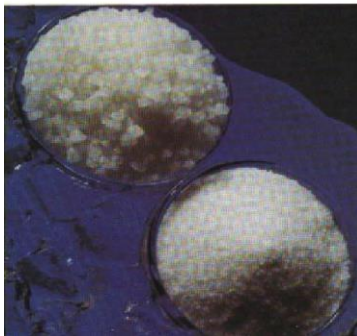
In water industries, we believe that water's chemistry is the answer for all quality problems arose. By understanding well the water's chemistry, we had emerged as a leader to provide utmost satisfactory services by ensuring our clients with treatment purification at their fingertips.






As part of our commitment to our valued customers, we strive to render utmost quality services and products at all time. From trading chemicals to equipments, laboratory apparatus, water analysis, WWTP plant optimization and as well as turnkey project, we serve as a one stop shopping station for water needs.

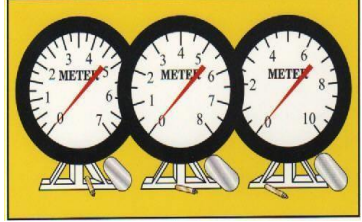



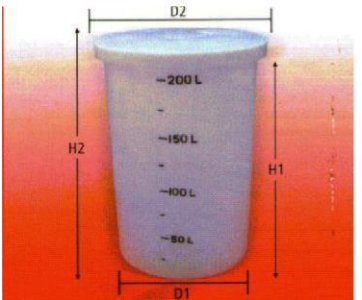




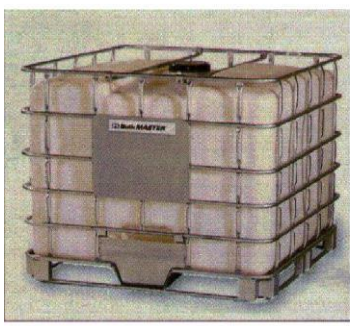


Products







Item	Product name	Application	Photograph
1	Supreme 50	<p>It is an inorganic coagulant to destabilize colloidal particles in water by means of charges neutralization, complexation and sweep-floc mechanisms.</p> <p>Its high basicity property has offer advantage of minimizing or negating the use of alkali aid in water treatment.</p> <p>Its polymeric structure provides strong coagulating power for water containing high colour and high suspended solids.</p>	
2	Supreme 40	<p>It is an inorganic coagulant to destabilize colloidal particles in water by means of charges neutralization, complexation and sweep-floc mechanisms.</p> <p>Its low basicity property has offer advantage of minimizing or negating the use of acid for pH correction for water with high pH.</p> <p>Its monomeric and dimeric structure provides strong coagulating power for water containing high colour with low suspended solids.</p>	
3	Supreme 4000	<p>It is an inorganic coagulant to destabilize colloidal particles in water by means of charges neutralization, complexation and sweep-floc mechanisms.</p> <p>Its high acidity property has offer advantage of minimizing or negating the use of acid for pH correction for water with high pH.</p> <p>It is practically suitable for leachate treatment.</p>	
4	Supreme 1000	<p>It is an inorganic coagulant to destabilize colloidal particles in water by means of charges neutralization, complexation and sweep-floc mechanisms.</p> <p>Its suspension property has offer advantage of enhancing rapid coagulation and adsorption processes.</p> <p>Its is designed to combat problematic water which contains high colour, COD and heavy metals at which the PACl, alum or ferric chloride treatment is unsatisfactory.</p>	






5	Supreme 5000	<p>It is an inorganic coagulant to destabilize colloidal particles in water by means of charges neutralization, complexation and sweep-floc mechanisms.</p> <p>It is use in conjunction with an oxidizing agent to produces super reactive hydroxyl free radical to treat a large variety of water pollutants such as phenols, formaldehyde, BTEX, pesticides, rubber chemicals and so on.</p> <p>It is best option for COD removal by means of chemical treatment.</p>	
6	Metal-Rase 88 (Metal Precipitant)	<p>It is a strong reducing agent to be used in conjunction with any of the coagulants above to enhance heavy metals removal.</p>	
7	Supreme Flocc LC (Organic coagulant)	<p>It is an organic coagulant to destabilize colloidal particles in water by means of charges neutralization, complexation and sweep-floc mechanisms.</p> <p>It is biodegradable and its generated sludge is not classified as schedule waste.</p>	
8	Supreme Flocc (Flocculant)	<p>It is a chemical to promote particles increase in mass and settle at a faster rate after coagulation process.</p> <p>It is divided into three groups namely anionic, non-ionic and cationic. Each group of polymer has different functioning group hence exhibits different characteristic and performance.</p> <p>Large variety of flocculants from low charge to high charge are available.</p>	




9	Bacteria	<p>There are 21 types of selected bacteria for grease control, lift station maintenance, chlorinated organics, dairy waste, refinery and chemical waste, hydrocarbon soil remediation, marine environment, oily sump treatment, municipal activated sludge, fixed film systems, fish farming, fruit- vegetable-wine, pulp & paper, municipal lagoon, grease drain & trap, hard surface cleaner, odor control & degreaser, parts washer fluid, oily sump, septic tank, and restaurant.</p> <p>It is use for oil & grease, BOD and COD removal in biological treatment.</p>	
10	Antifoam 200	It is a chemical to lower the surface tension of bubble of foam and then cause the bubble or foam to burst.	
11	Jar Tester	It is a device to simulate a full-scale water treatment process, providing system operators a reasonable idea of the way a treatment chemical will behave and operate with a particular type of raw water. Jar testing entails adjusting the amount of treatment chemicals and the sequence in which they are added to samples of raw water held in beakers.	
12	Imhoff cone	A device which is important in biological treatment to measure Bio-Sludge Volume.	
13	Filter Press	<p>We fabricate, supply and install filter press from size 20L to 2500L.</p> <p>Accessories such as filter plate, filter cloth, hydraulic pump, sludge trolley are also available.</p>	

14	Water Tank Level Indicator	It is a level indicator to be mounted on top of water tank for water level indication.	
15	Inline mixer	An in-situ mixer for water or chemical mixing at where mechanical stirrer installation is impossible.	
16	Fiberglass lining for water and chemical tank	We provide service for doing fiberglass lining for bulk tank to prevent corrosion.	
17	Fiberglass tank	We supply FRP tank as big as 200 m ³ for corrosive chemical storage. Oil & gas compliance specification is available.	
18	PE tank	The tank is made of 1 st grade linear polyethylene (LMDPE) and is conforming to ASTM D1998-97 designed standard. Tank size 50, 120, 220, 380, 580, 780, 1100 and 1550 L are available.	

19	Conical base HDPE tank	<p>The tank is made of high density polyethylene (HDPE). Tank size 1100, 1600, 2100, 2600, 3100, 3600, 4100, 4700, 5200 and 6200 L are available.</p> <p>The conical base design is for easier solids decanting particularly for sludge thickening use and for chemical reaction.</p>	
20	HDPE water and chemical storage tank	<p>The tank is made of high density polyethylene (HDPE). Tank size 1100, 1500, 2250, 2700, 3300, 4000, 4500, 5000, 5500, 6800, 7500, 9100, 10800, 11500, 13700, 15900, 18500, 20500, 22800, 25000, 27500, 31800, 36500, 41000, 45500, 50000 and 55000 L are available.</p> <p>The tank is categorized into three categories namely water duty for medium with S.G. 1.1, medium duty for medium with S.G. 1.5 and heavy duty for medium with S.G. 1.8.</p>	
21	IBC tank	<p>The tank is made of PE with m/s cage for reinforcement. It is practically use for corrosive chemical storage. Three types of tank are available with different cage design.</p>	
22	PP Scrubber packing	<p>It is a PP material to be used in scrubber system for increasing surface area for air and water/chemical contact in scrubber system.</p>	
23	Cool Shot (Cooling Tower Chemical)	<p>Cool Shot is a multi-purposes integrated cooling tower water treatment chemical comprises of corrosion inhibitor, scaling inhibitor and biocide. The chemical is designed to cater for small & medium size of cooling tower. It has broad biocidal spectrum and fast killing power at low dosage for microbes such as Legionella and moses.</p>	

24	Chlorine	Chlorine is a strong oxidizing agent. It is typically used as a bleaching agent for cleaning purpose and for disinfection purpose.	
25	Fiberglass Spherical Valve	The valve is made of fiberglass body and polytetrafluoroethylene sealing base. Size is available from DN15-200mm. The maximum working pressure and temperature is 0.6MPa and 120°C respectively. The valve is practically suitable for all corrosive and aggressive fluids.	
26	Fiberglass Piping	The entire piping is made of fiberglass. Pipe diameter is available from DN25-400mm. The maximum working pressure is 0.6MPa for DN25-100mm and 0.3MPa for DN125-400mm. It has heat resistance property up to 120°C. The piping is practically suitable for corrosive and aggressive fluids.	
27	Fiberglass Water Jet Vacuum Pump	The water jet vacuum pump is made of fiberglass material. It is a kind of reliable evacuating equipment, mainly used in distillation, condensation, drying, adsorption, mass transfer, sewage biochemical treatment, and so on. There are two models available with air suction capacity of 72 m³/hr and 120 m³/hr.	
28	Fiberglass Centrifugal Pump	All wetted parts are made of fiberglass thus the pump is superior for handling corrosive and aggressive fluids.	
29	PTFE/PFA lined Piping	<p>The internal wetted part for this category piping and fitting is made of PTFE or PFA for maximum corrosiveness resistance. The body material construction can be of carbon steel or stainless steel. The PTFE/PFA lined pipe is designed:</p> <ol style="list-style-type: none"> 1. for media where stainless steel does not offer lasting corrosion resistance. 2. for metal-reactive media e.g. Hydrogen peroxide. 3. For food and pharmaceutical industry where hygiene is priority. 	

30	PTFE/PFA Lined Valve	<p>This PTFE or PFA lined products comprises of pneumatic, diaphragm, ball, butterfly valve and also sight glass. PTFE/PFA lined products has proven to be problem solvers for many fields of application, in particular:</p> <ol style="list-style-type: none"> 1. for fluids where stainless steel, iron silicon alloy and diverse plastics are no longer sufficiently resistant to corrosion. 2. for pure and ultrapure fluids handling which contact with metals is not allowable. 3. as alternatives to expensive special metals and alloys such as Hastelloy, tantalum, titanium, Monel and nickel. 	
31	PTFE/PFA Lined Pump	<p>This PTFE or PFA lined products comprises of magnetic drive, mechanical seal, peripheral, vortex and centrifugal pump. The performance range comprises flow rates of up to 600 m³/hr, heads of up to 150m and operating temperature of -60 to 200°C. All pumps are ATEX and FDA compliance.</p>	
32	Incline Plate Rapid Settling Clarifier	<p>The clarifier is designed to remove suspended solids from water by means of gravity. It is made of fiberglass and its employ an inclined plate concept to provide high effective area within a compact unit. The entire plate surface is used for settling, thus the effective settling area for an inclined plate type is the horizontal projection of the plate area. Large numbers of plates are stacked together to provide the same settling in as little as 1/5th of the plant floor space required by other clarifiers.</p>	
33	Ultrasonic Clamp on Flowmeter for Liquids	<p>This series of flowmeter employs ultrasonic signal to measure water's or others fluids' flowrate by means of transit time method. The meter utilizes a pair of transducer that function as ultrasonic transmitter and receiver. Flowrate measurement take place when clamping on the pair of transducers on the outer surface of piping by entering the parameters of pipe outer diameter, pipe material and pipe thickness. Despite for water flowrate measurement, it also applicable to measure all liquids' flowrate by knowing their sound velocity.</p> <p>Advantages: flexibility for measuring pipe with diameter from DN15 -6000 mm, easy installation within minutes, no pipe cutting needed, no shutdown needed, no contact with liquid hence it is hygienic and corrosion resistant, applicable for all liquids and pipes, cost effective for huge pipe, portable unit available.</p>	 

34	PP hand Rotary Drum Pump	This pump is made of combination of PP, Ryton and Teflon seal for maximum chemical corrosive resistance. The pumping capacity is approximately 350ml/rotation and fit 15, 30 and 55 gallon drum.	
35	Metal lever action drump pump	This pump is made of combination of SS316 and teflon seal for maximum durability. It is design for solvent transferring. The pumping capacity is approximately 600ml/stroke and fit 15, 30 and 55 gallon drum.	
36	Oil, Grease, Solvent Solidifier or Sorbent	Oil solidifiers are composed of dry, high molecular weight polymers that have a porous matrix and large oleophilic (strong affinity for oil rather than water) surface area. Upon contact with oil, the oil solidifiers form a physical bond with the oil. The result is that the oil's viscosity increases to the point that the oil solidifies into a rubber-like solid that is non-toxic and floats on water. The end product can range from a firm cohesive mass to a non-cohesive granular material. This product is ideal for oil spill clean-up.	

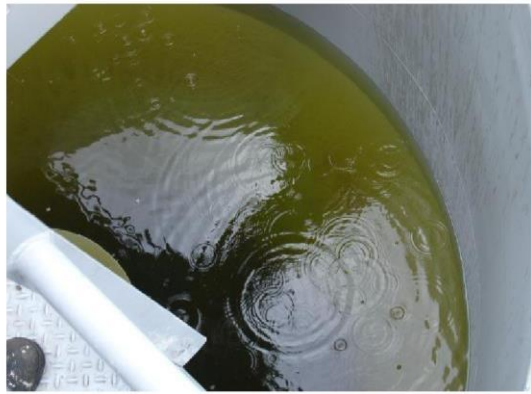


Chemicals	Laboratory Apparatus/Equipment
<ol style="list-style-type: none"> 1. Polyaluminium chloride (PAC). 2. Liquid alum/kibble alum. 3. Oil/solvent solidifier (absorbent). 4. Chlorine gas. 5. Sulphuric acid. 6. Sodium hydroxide. 7. Hydrochloric acid. 8. Power activated carbon. 9. Potassium permanganate. 10. Sodium silico fluoride. 11. Calcium hydroxide (hydrated lime). 12. Polymer. 13. Reducing agents. 14. Oxidizing agents. 15. Bacteria. 16. Nutrients. 17. Metal precipitant. 18. Fly ash. 19. Enzyme. 20. Others. 	<ol style="list-style-type: none"> 1. Floc tester. 2. pH meter. 3. Turbidity meter. 4. Spectrophotometer. 5. Chemical reagents. 6. Conductivity meter. 7. TDS meter. 8. DO meter. 9. BOD apparatus. 10. Imhoff cone. 11. Oven. 12. Incubator. 13. Water/sludge sampler. 14. Chemical storing cabinet. 15. Glassware/plastic-ware. 16. Ultrapure water system. 17. Microscope. 18. Ultrasonic wall thickness gauge. 19. Others.

On-line monitoring	Machinery
<ol style="list-style-type: none"> 1. Streaming current (ionic charge) detector. 2. Chlorine analyzer. 3. COD analyzer. 4. pH analyzer. 5. Turbidity analyzer. 6. TDS analyzer. 7. Oil & grease analyzer. 8. Ammonia analyzer. 9. Non-invasive ultrasonic clamp-on flow-meter. 10. Electromagnetic and paddle wheel flow meter. 11. Others. 	<ol style="list-style-type: none"> 1. Metering pump. 2. Air diaphragm pump. 3. Centrifugal pump. 4. Energy saving DAF pump. 5. Acid/alkali resistant transferring pump. 6. Blower. 7. Compressor. 8. Filter press. 9. Gravity feeder. 10. Powder feeder. 11. Silo. 12. Scrubber system fabrication. 13. UV disinfection system. 14. Others.

Filter Media	Miscellaneous
<ol style="list-style-type: none"> 1. Ion exchange resin. 2. Gravel. 3. Fine sand. 4. Power/granular activated carbon. 5. Anthracite. 6. Zeolite. 7. Green sand. 8. Filox. 9. Metalease. 10. Birm. 11. KDF (chlorine removal). 	<ol style="list-style-type: none"> 1. HDPE water tank. 2. Fiberglass water tank. 3. Fiberglass coating. 4. Venturi aerator. 5. Aeration disc. 6. In-line mixer or eductor. 7. Polymer preparation module. 8. Pressurized water filter. 9. Sedimentation/floatation clarifier. 10. Safety equipment PPE/SCBA. 11. WWTP optimization and trouble-shooting.

Case History



An underground water treatment plant initially had high iron, manganese and aluminium problems. After trouble-shooting and optimization, the plant ultimately achieved Malaysia Drinking Water (MOH) Standard.



A rubber gloves waste-water treatment plant initially had high COD, BOD and zinc problems. After trouble-shooting and optimization, the plant ultimately complies with standard A effluent discharge standard.



A waste-water treatment had sludge bulking problem in final clarifier. After trouble-shooting and optimization, the plant ultimately complies with standard B effluent discharge standard.



Our sister company laboratory is equipped with MP-AES recently which enable us to conduct 88 elements as tabulated in table below:

List of elements that can be analyse by MP-AES. Total = 88 elements

Li	Nb	Zn	Ce	Cm
Na	Ta	Cd	Pr	Bk
K	Cr	Hg	Nd	Cf
Rb	Mo	B	Pm	Es
Cs	W	Al	Sm	Fm
Fr	Mn	Ga	Eu	Md
Be	Tc	In	Gd	No
Mg	Re	Tl	Tb	Lr
Ca	Fe	Si	Dy	
Sr	Ru	Ge	Ho	
Ba	Os	Sn	Er	
Ra	Co	Pb	Tm	
Sc	Rh	P	Yb	
Y	Ir	As	Lu	
La	Ni	Sb	Th	
Ac	Pd	Bi	Pa	
Ti	Pt	S	U	
Zr	Cu	Se	Np	
Hf	Ag	Te	Pu	
V	Au	Po	Am	

Note: Refer to periodic table attached for easy references. RED colour circle means this element can't be analysed by any of the Inorganic techniques (FAAS, ICP-OES & ICP-MS) not just for MP-AES.

**AA, ICP-OES, ICP-MS
ALL TOGETHER AT AGILENT**

The periodic table is displayed with the following elements highlighted in red circles:

- Hydrogen (H)
- Helium (He)
- Carbon (C)
- Nitrogen (N)
- Oxygen (O)
- Fluorine (F)
- Neon (Ne)
- Chlorine (Cl)
- Bromine (Br)
- Iodine (I)
- Xenon (Xe)
- Astatine (At)
- Radon (Rn)

The periodic table is color-coded by groups:

- Alkali metals (Yellow)
- Alkaline earth metals (Blue)
- Transition metals (Green)
- Lanthanides (Pink)
- Actinides (Purple)
- Metalloids (Light Green)
- Nonmetals (Orange)
- Noble gases (Light Blue)

The image also features a person wearing safety glasses and the Agilent Technologies logo.