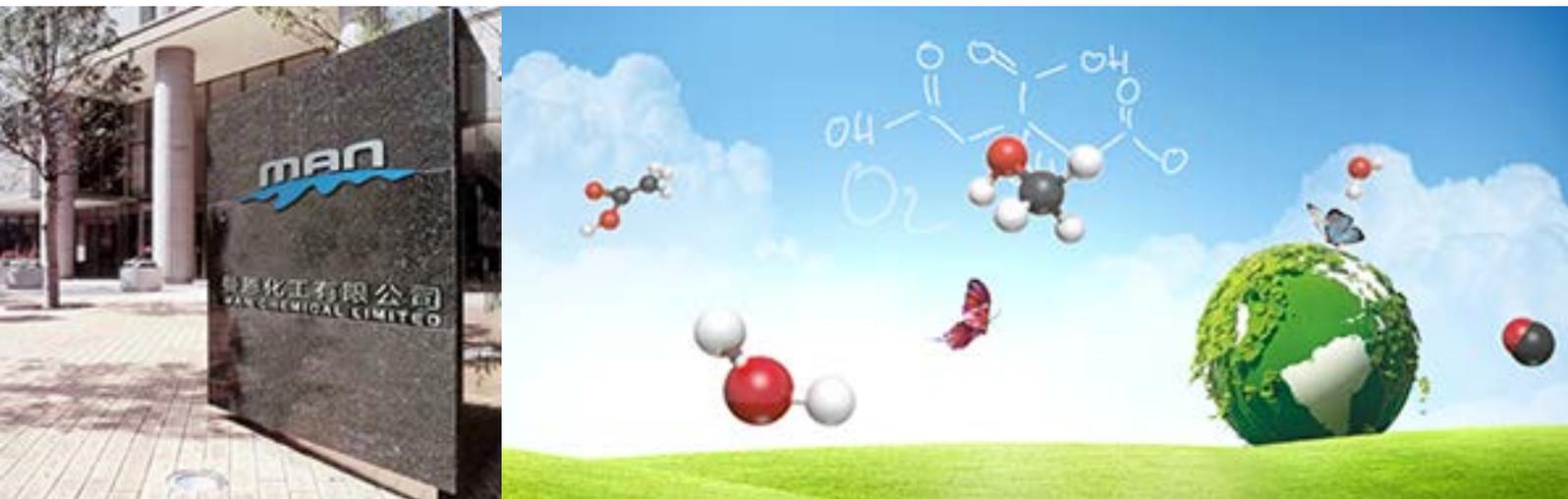




PRODUCT SUMMARY

Water Treatment Chemicals



Man Chemical is a regional specialty chemical company that produces a broad range of advanced materials, additives and functional products, specialty chemicals, that are found in products people use every day. Man Chemical is focused on delivering innovative and technology-based solutions while maintaining its commitment to safety and sustainability.

With our experience accumulated for over a century, we pride ourselves as an important link between our suppliers and customers. With the assistance of its subsidiaries MAN CHEMICALS keep their suppliers and customers up-to-date regarding the most current international trends and provide an all important advantage.

Man Chemical offers an extensive range of advanced; scientifically formulated water treatment products, specialty chemicals and water additives manufactured to the highest international quality and environmental standards for guaranteed performance.

Man Chemical's full range of scientifically formulated water additives and chemical treatment products includes high performance water treatment chemicals for steam boilers, cooling water systems, cooling towers and closed circuits; wastewater and effluent treatment chemicals, high performance industrial chemicals, reverse osmosis membrane products, eco-friendly biological formulations, advanced polymers and much more. For further details on any of our water treatment products simply select a product title.

We regularly audit our suppliers to ensure that our customers receive the highest quality of products available. We operate according to our maxim "MORE THAN EXPECTATION". We want to prove that we live up to it.



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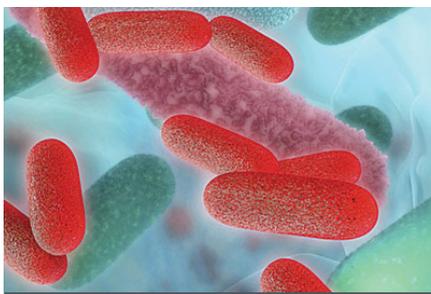
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Biocides & Disinfectants

Man Chemical's technically advanced boiler water treatment chemicals have been scientifically formulated to improve the operation and maintenance of industrial boiler systems and steam generation plant by proactively managing the problems associated with the use of water including scale formation, metallic corrosion, boiler water carryover and sludge deposition.



OXIDISING BIOCIDES

Hypobromous Acid

Calcium Hypochlorite

Broad-Spectrum Bromine Biocide

Bromine Tablet Biocide

Hydrogen Peroxide & Silver

Effervescent Chlorine Tablets

Liquid Chlorine plus Biodispersant

Microbiocide

Hydrogen Peroxide Disinfectant

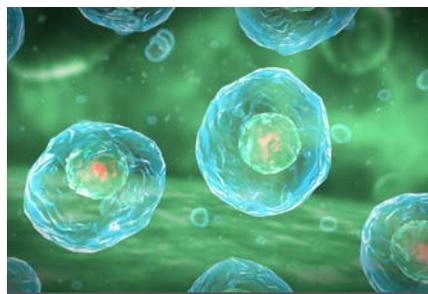
Sodium Bromide Solution

Sodium Hypochlorite

Stabilised Bromine Biocide

Surfactant for Hypochlorite

Bromate Sodium Hypochlorite



NON-OXIDISING BIOCIDES

Biocide - Isothiazoline

Biocide & Biodispersant

Biocide Tablets for A/C

Broad Spectrum Biocide

Broad Spectrum Micro-Biocide

Polymeric Quaternary Biocide

Broad Spectrum Organic Biocide

Bronopol Biocide

Isothiazolin Micro-Biocide

Polymeric Cationic Microbiocide

THPS Organic Biocide plus Surfactant

Non-Ionic Wide Spectrum Biocide



CHLORINE DIOXIDE (ClO₂)

Chlorine Dioxide Activator

Chlorine Dioxide Precursor

Chlorine Dioxide Liquid

Chlorine Dioxide Powder

Chlorine Dioxide Tablets

Sodium Chlorite Precursor



Boiler Water Treatment

Man Chemical's range of advanced technology biocides and disinfectants have been developed for use in a wide range of commercial cleaning, disinfection, environmental hygiene, industrial and process water treatment activities. Its high performance biocides deliver superior performance and include both oxidising and non-oxidising biocides for complete water system control.



- ALKALINITY BUILDERS**
- Alkalinity Builder Sodium Hydroxide
- Alkalinity Builder & pH Adjuster
- Alkali & Sludge Conditioner
- Boiler Water Alkalinity Builder
- Caustic Alkali with Polymers
- Caustic pH Adjuster



- CONDENSATE LINE SAFETY**
- Amine Blend Steam
- Blend of Neutralising Amines for pH
- Condensate Line Corrosion Inhibitor
- Mixed Neutralising Amine



- OXYGEN SCAVENGERS**
- Catalysed Sodium Bisulphite
- Catalysed Oxygen Scavenger
- Corrosion Inhibitor
- Food Grade Oxygen Scavenger
- Inorganic Sulphite Oxygen Scavenger
- Neutral Tannin Oxygen Scavenger
- Catalysed Sodium Bisulphite
- Catalysed Oxygen Scavenger
- Nickel Catalysed Sodium Bisulphite
- Sodium Sulphite Oxygen Scavenger
- Volatile Oxygen Scavenger
- All Organic Low Solids Treatment



- ALKALINITY BUILDERS**
- Boiler Water Corrosion Inhibitor
- Organic Inhibitor with Alkalinity
- Scale & Corrosion Inhibitor



- SLUDGE CONDITIONER**
- Polymer Phosphate Scale Inhibitor
- Scale Inhibitor for Steam Boilers
- Phosphate Polymer Treatment
- Boiler Water Sludge Conditioner



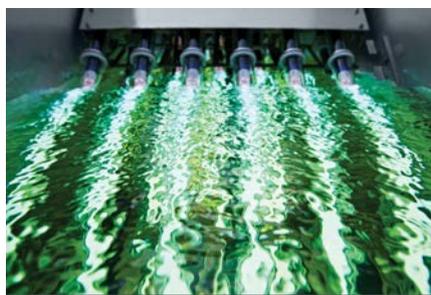
Wastewater Treatment Coagulants

Man Chemical's extensive range of high performance aluminium based coagulants have been specially formulated for use in a wide range of demanding commercial, industrial and municipal applications involving the treatment of potable water, process waters, wastewater and effluent treatment.



ALKALINITY BUILDERS

- Alkalinity Builder Sodium Hydroxide
- Alkalinity Builder & pH Adjuster
- Alkali & Sludge Conditioner
- Water Alkalinity Builder Caustic
- Alkali with Polymers
- Caustic pH Adjuster



DISINFECTION & ANTI-BACTERIA

- Hypobromous Acid
- Calcium Hypochlorite
- Broad-Spectrum Bromine Biocide
- Sodium Hypochlorite
- Biocide - Isothiazoline
- Sodium Chlorite



OIL&FOAM TREATMENT

- Oil based defoamer
- Powder defoamer
- Water based defoamer
- Silicone based defoamer
- EO/PO based defoamer
- Alkyl polyacrylate



ODOR CONTROL

- Natural Odour Neutraliser
- Chemical Air Repair
- Active Carbon Powder

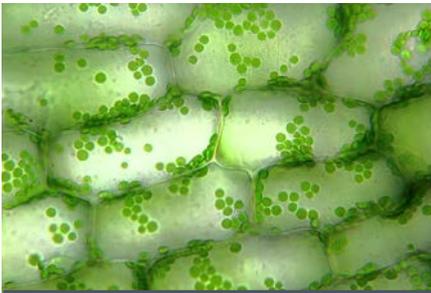


SLUDGE TREATMENT

- Anionic Polyacrylamide
- Cationic Polyacrylamide
- EpiDMA Polymer Cationic Coagulant
- EpiDMA Cationic Coagulant
- Absorbant sodium Polyacrylate

Closed Circuit Treatment

Man Chemical's extensive range of high performance aluminium based coagulants have been specially formulated for use in a wide range of demanding commercial, industrial and municipal applications involving the treatment of potable water, process waters, wastewater and effluent treatment.



ANTI-FOULANTS

Marine Anti-Foulant



CORROSION INHIBITORS

- Alkaline Multi-Metal Inhibitor
- High Strength Nitrite Inhibitor
- Inorganic/Organic Inhibitor
- Molybdate / Borate Inhibitor
- Nitrite Corrosion Inhibitor
- Organic Acid for pH



SCALE & CORROSION

- Cathodic, Anodic & Non-Ferrous
- Nitrite Multi-functional Inhibitor
- Silicate Scale & Corrosion Inhibitor



FROST PROTECTION

- Coolant Glycol Antifreeze
- Engine Coolant, MEG Antifreeze
- Glycol Antifreeze Coolant
- Mono Ethylene Glycol (MEG)



ADDITIONAL BENEFITS

LOGISTICS

WAREHOUSE LOGISTIC

We provide over 30,000 sqm warehouse space

TRANSPORT LOGISTIC

Our different entries and facilities provide an excellent logistical infrastructure with short routes to our customers.

- Import/Export FCL & LCL Shipments
- Airfreights
- Next day services within Germany

IMPORT PROCESSING

We take care of the full customs clearance processing and are directly connected with the local authorities. Our Tracking & Tracing system monitors containers while in transit anywhere around the world.

DOCUMENTATION

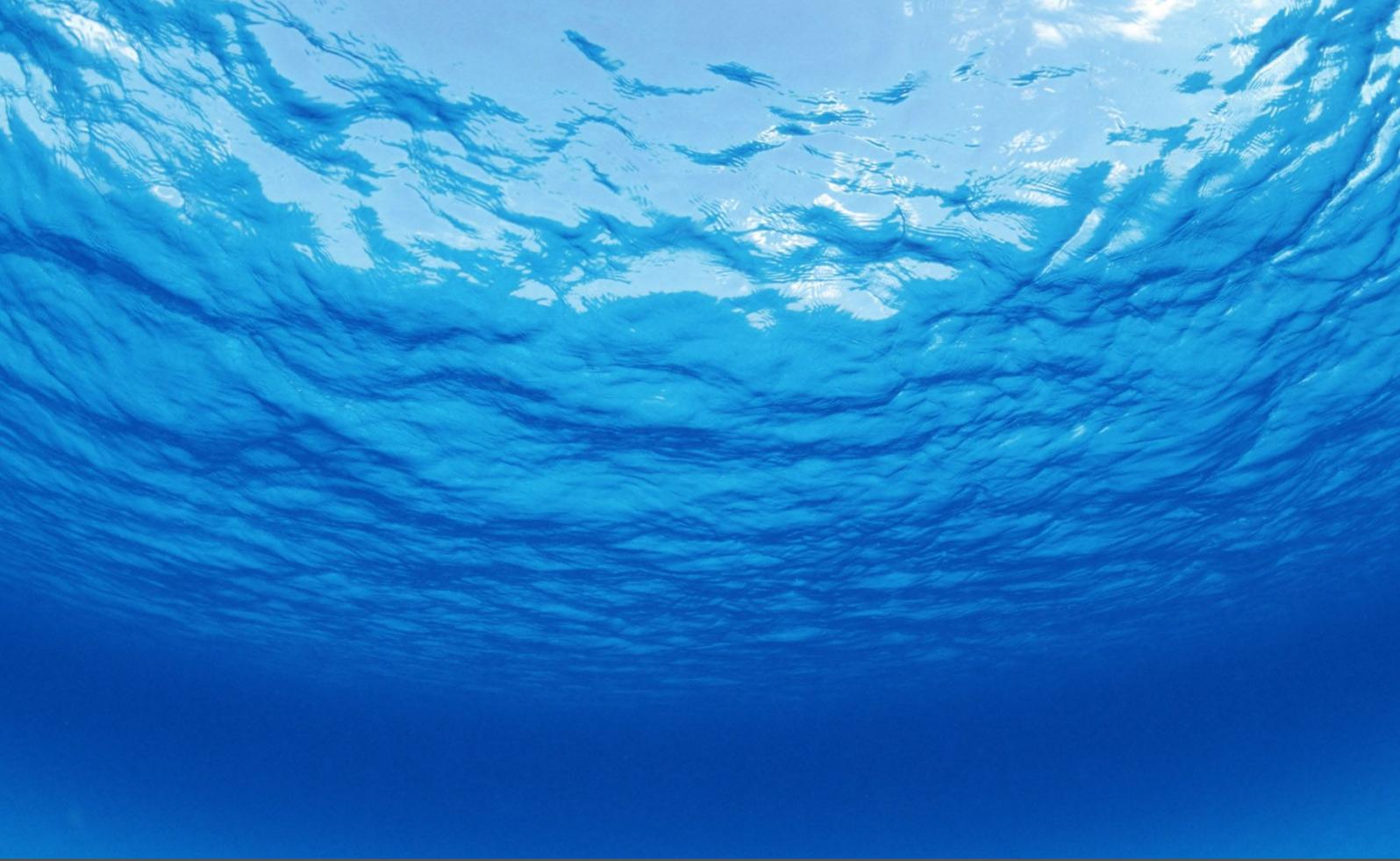
We provide full transportation documents including commercial invoice, certificate of origin, certificate of analysis, insurance certificate, packing list or other documents required to clear customs and/or to take delivery of the goods.

FOOD SAFETY

Our warehouse operators are trained to handle water treatment chemicals and they work according to ISO 14001 requirements.

QUALITY MANAGEMENT SYSTEM

- Supplier approval process
- Traceability
- Supplier audits
- ISO 14001 process
- Operating Safety training program
- Spot tests by accredited labs



MAN CHEMICAL



www.manchemical.com

Please note: This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.