

## Boiler chemicals

FUNCTION	DESCRIPTION	DOSAGE	COMMENTS
Antifoam	Glycol	100 - 140 ppm	Effective for iron, phosphate & sulphate scale in BW & CW. Good on-line descaler at high dosages.
Dispersant & scale inhibitor	Ter-polymer	100 - 140 ppm	Effective for iron, phosphate & sulphate scale in BW & CW. Good on-line descaler at high dosages.
Dispersant & scale inhibitor	Polymer / Phosphonate	80 - 120 ppm	Better alternative to polyacrylates where iron deposition or carbonate scale is problematic. Will chelate copper.
Dispersant & Scale inhibitor	Polymer / Phosphate	50 - 70 ppm	Economic & tolerates fluctuating BFW hardness. Formerly 155 (Chematron), similar to 5623 (Metito), H16 (Australia)
Oxygen scavenger - powdered	Catalysed sulphite	15 - 30 ppm in BFW	Cost effective alternative to liquids but more difficult to handle & mix.
Oxygen scavenger - liquid	Neutralised catalysed sulphite	40 - 70 ppm in BFW	Fast acting, catalysed liquid oxygen scavenger. Has been neutralised to prevent acid attack at the injection point. 5609 (Metito)
1-shot corrosion & scale inhibitor	Sulphite / phosphate / polymer / alkali / amine	TBA - Aquarex	1-Shot sulphite product with neutralising amine.
1-shot corrosion & scale inhibitor	Sulphite / phosphate / polymer / alkali	TBA - Aquarex	1-Shot sulphite product.
Oxygen scavenger	Blended tannins	15 - 30 ppm in BFW	Good alternative to sulphite. Forms a passive iron-tannate film, prevents caustic embrittlement, has sludge dispersant properties and is easy to control.
1-shot corrosion & scale inhibitor	Tannin / phosphonate / polymer / alkali / amine	25 - 40 ppm in BFW	1-Shot tannin product.
Alkalinity builder	Liquid caustic	As required.	Caustic alkalinity booster for boilerwater. Dosage depends in make-up alkalinity & hardness levels.
Condensate neutraliser	Single amine	TBA - Aquarex	Based on low toxicity MEA, this product is specifically designd for use in the F&B Industry. Local agreements or approvals maybe in place highlighting this. Dosage depends on make-up M alkalinity.
Condensate neutraliser	Blended amines	TBA - Aquarex	All purpose blended neutralising amine. Dosage depends on make-up M alkalinity.
Condensate neutraliser	Blended amines	As required.	Choice of product for larger steam systems - travels further than MC340. Dosage depends on make-up M alkalinity.
Volatile oxygen scavenger	Volatile amine	10 - 20 ppm in BFW	No TDS contribution to BW. Works in steam system. Also buffers condensate up pH slightly.

Cooling chemicals		
FUNCTION	DOSAGE	COMMENTS
<b>RECIRCULATING SYSTEMS (with Zn)</b>		
Corrosion & Scale inhibitor.	30 - 100 ppm	Great scale & corrosion inhibitor Excellent "all rounder".
Corrosion & Scale inhibitor.	100 - 200 ppm.	Should not be used in systems above pH 8.5. Not compatible with oxidizing biocides.
Corrosion & Scale inhibitor.	40 - 60 ppm.	Suitable for large and medium systems. Best product when oxidizing biocides are used.
Corrosion & Scale inhibitor.	50 - 80 ppm.	Should not be used in systems above pH 8.5. <b>Not stable if temperature &lt; 0°C.</b>
Corrosion & Scale inhibitor.	30 - 50 ppm	Up to 600 ppm hardness
Corrosion & Scale inhibitor.	80 ppm	To be preferred instead of oxidizing biocides are used.
<b>RECIRCULATING SYSTEMS (without Zn)</b>		
Corrosion inhibitor	20 - 40 ppm	Recommended for Cu and Cu alloys.
Scale inhibitor and Dispersant	25 - 40 ppm	Highly effective against calcium carbonate and calcium sulfate scale.
Scale and sludge conditioner for hardness and iron deposits.	40 - 60 ppm.	pH must be controlled around 7 - 7,5
Open cooling system multifunctional inhibitor	50 ppm	Best effective "all rounder" product.
Dispersant & Scale inhibitor	40 - 60 ppm.	Highly effective in very hard conditions (suspended solids).
Scale and sludge conditioner for hardness and iron deposits.	80 - 120 ppm.	Can be used for corrosive water.
<b>ONE TROUGH</b>		
Dispersant & Corrosion inhibitor	25 - 100 ppm	No metals - Cost effective.
Corrosion & Scale inhibitor	30 - 100 ppm	Organic corrosion inhibitor - No metals inhibitor - Not to be used in soft waters Great scale

Cooling chemicals		
FUNCTION	ACTIVES	DOSAGE
<b>ONCE THROUGH SEA WATER AND FRESH WATER COOLING STSTEMS.</b>		
Biocide, dispersant and corrosion inhibitor	Diamine acetate.	4-6 ppm for one hour up to three times per week.
Low toxicity dispersant and corrosion inhibitor	Polyamine	4-6 ppm for one hour up to three times per week.

Cooling chemicals				
NAME	NUMBER	FUNCTION	DOSAGE	COMMENTS
<b>BIODISPERSANTS</b>				
Tech	2450	Biodispersant	20 -40 ppm	Good for organic or MB fouling -Used in one through systems or in addition to multicomponent antiscalants
Tech	2460	Biodispersant/scaling/cleaning	20 -40 ppm	Good for organic and heavy HC deposits oxidizing biocides. <span style="float: right;">Booster for</span>
Tech	2470	Biodispersant	20 - 30 ppm	Good low toxicity seawater treatment. Excellent in C/T's as biodispersant with a biocide. <span style="float: right;">Also inhibits corrosion.</span> <b>Same as VWS 2802</b>
<b>CLOSED SYSTEMS</b>				
Tech	2510	Corrosion inhibitor	2650 ppm	1000 to 1200 ppm nitrite as NaNO2
Tech	2520	Corrosion inhibitor & Dispersant	1000 ppm	Can substitute nitrite based formulation. <span style="float: right;">Good for all purposes - Corrosion inhibitor for closed heating and chilled circuits. Protect both</span>
<b>STAINLESS STEEL &amp; COPPER ALLOYS</b>				
Tech	2610	Open cooling system scale/corrosion inhibitor	200ppm	7-10 ppm as Mo or 12-17ppm as MoO4
Tech	2620	Scale/corrosion inhibitor and dispersant	40 - 60 ppm.	highly effective against Calcium carbonate and sulfate scale

Potable water			
FUNCTION	ACTIVES	DOSAGE	COMMENTS
<b>ANTI SCALING / CORROSION</b>			
Protection of scale/deposition and corrosion inhibitor for potable water systems.	Phosphate/ Silicate .	50g/m3	CONFORM WITH DTU 60-1 and additives, Respond to current statutory requirements (avis technique n°19/98-9)
Protection of scale/deposition for potable water systems	Phosphate/ Silicate .	60 ppm initially, 25 ppm maintenance.	Meets Australian guidelines for potable water.
Corrosion inhibitor for potable water systems	Orthophosphates / zinc	7 to 10 g/m3	For very corrosive potable water (low mineralization). <span style="float: right;">Residuals: 1 ppm P - 0.7 ppm Zn</span>
Protection of scale/deposition in potable water systems.	Polyphosphates (HMP)	10 g/m3	Shape to the positive list for the treatment of waters for the human consumption.. Good to remove "red color" in potable water. Feedrate to be reduced to 6 ppm after 3-4 weeks.
Corrosion & scale inhibitor for potable water systems.	Blend of o-PO4 and pyro PO4	10g/m3	For highly mineralized & corrosive water.

Potable water		
FUNCTION	ACTIVES	DOSAGE
<b>ANIONIC POWDER</b>		
	Charge density (mole %): 0 MA%: 100 Viscosity (UL): 3,7 - 4,4	
	Charge density (mole %): 3 MA%:100 Viscosity (UL): 4,5 - 5,4	
	Charge density (moe%): 10 MA%: 100 Viscosity (UL): 4,7 - 5,6	
	Charge density(mole%): 30 MA%:100 Viscosity (UL): 5,5 - 6,3	
	Charge density (mole %) : 50 MA%: 100 Viscosity (UL): 5,5 - 6,2	
	Charge density (weight%): 15 MA%: 100 Viscosity (IV): 16 - 17	
	Charge density (weight%): 24 MA%: 100 Viscosity (IV): 19 - 21	
	Charge density (weight%): 30 MA%: 100 Viscosity (IV): 15 - 16	
<b>CATIONIC POWDER</b>		
	Charge density (mole%):1,5 MA%:100 Viscosity (UL): 3,2 - 3,8	
	Charge density (mole%): 5 MA%: 100 Viscosity (UL): 3,2 - 4	
	Charge density (mole%): 10 MA%: 100 Viscosity (UL): 3,3 - 4	
	Charge density (weight%): 7 MA%: 100 Viscosity (IV): 6 - 8	
	Charge density (weight%): 22 MA%: 100 Viscosity (IV): 7 -10	

<h1>Potable water</h1>	
FUNCTION	DOSAGE
<b>INORGANIC COAGULANT</b>	
Suitable for clarification of a broad spectrum of surface water to potable standard	1 - 100 ppm
Particularly suitable for the clarification of a broad spectrum of surface water to potable standard	5 - 30 ppm
<b>ORG-INORGANIC COAGULANT</b>	
Particularly suitable for the clarification of a broad spectrum of surface water to potable standard	Up to 100 mg/l
<b>ORGANIC COAGULANT</b>	
Particularly suitable for the clarification of high turbidity surface water	
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RO Chemicals			
FUNCTION	ACTIVES	DOSAGE	COMMENTS
<b>ANTI SCALING</b>			
Membrane scale inhibitor	Phosphonates	2 - 6 ppm	Certification for potable water in process.
Membrane scale inhibitor	Phosphonates	6 ppm phosphonate in the reject	Applied continuously
Membrane scale inhibitor	Phosphonates	6 ppm phosphonate in the reject	Applied continuously
Membrane scale inhibitor	Phosphonate Polymer blend	4 - 6 ppm	Specially formulated for RO feed with high silica
Membrane scale inhibitor	Phosphonates	2 - 6 ppm	Specially formulated for RO feed with high sulphate (>150 ppm)
Membrane scale inhibitor	Phosphonate Polymer blend	4 - 6 ppm	Optimum product for use where RO feed has high levels of organics (>10 ppm KMnO4) or high level of iron (>0.2 ppm Fe)
Membrane scale inhibitor	Polymer	1 - 2 ppm	When dilution water has high level of hardness
<b>BIOCIDES</b>			
Membrane biocide	Isothiazolin	1 % solution	Excellent broad spectrum biocide for RO membrane sanitisation. CONTINUOUS feeding
Membrane biocide	DBNPA	0.5 ppm	Fast acting biocide suitable for RO membrane sanitisation or continuous feed where organics problematic. SHOCK feeding
Membrane biocide	Hydrogen peroxide/Peracetic acid	0.6% solution	Excellent broad spectrum biocide for RO membrane sanitisation.
<b>CL2 REMOVAL</b>			
Chlorine removal	Metabisulfite	1.5 ppm for each ppm of free chlorine	

RO Chemicals			
FUNCTION	ACTIVES	DOSAGE	COMMENTS
<b>MULTI-FUNCTIONAL</b>			
Antiscalant + CL2 removal	Phosphonate, bisulfite	1 - 6 ppm	
<b>CLEANERS</b>			
Membrane cleaner high pH (POWDER)	Alkalis, chelats & detergents	0.5 - 0.8 %	For removal of calcium, barium and strontium salts from RO membranes. Also effective against microbial fouling.
Membrane cleaner high pH (LIQUID)	Alkalis, chelats & detergents	2 - 5 % solution	For the removal of inorganic colloids (silt), biofilms and organics.
Membrane cleaner low pH	Acids & detergents	5 - 10% solution	For the removal of iron oxides and carbonate scales.
Membrane cleaner for silica	Chelates, detergents & polymers	3 - 5% solution	For removal of silica based salts from RO membranes.
Membrane cleaner for sulfates	Chelates, alkalis & phosphonates	0.5 - 2% solution	For removal of sulfate scale from RO membranes.
<b>PRESERVATIVE</b>			
Membrane preservative	Isothiazolin	0.2 - 0.3% solution	For long term storage.

Industrial Maintenance			
FUNCTION	ACTIVES	DOSAGE	COMMENTS
<b>RESIN CLEANER</b>			
Resin cleaner	HEDP	2-5% solution	Add directly to the resin bed or to the regeneration tank. Effective for iron and silt removal.
<b>ACID CLEANERS / DESCALERS</b>			
Acid cleaner with indicator	Sulphamic acid, citric acid, inhibitors & indicator	5-20% solution	A slow reacting powder descalant suitable for ferrous and non ferrous metals.
Acid cleaner	Sulphamic acid	5-20% solution	A slow reacting powder descalant suitable for ferrous and non ferrous metals.
Acid cleaner with indicator	Sulphamic acid & inhibitors	5-20% solution	A slow reacting powder descalant suitable for ferrous and non ferrous metals.
Acid cleaner with inhibitor	Hydrochloric acid & inhibitors	5-20% solution	Suitable to use for removing hardness (particularly carbonate) salts and iron oxides from a variety of boiler and other heat exchange plant.
Inhibited ammoniated citric acid cleaner	Citric acid, ammonia & inhibitors	5-20% solution	Suitable to use in higher temperatures (up to 95°C) for removal of iron oxides from boilers, strength depends on scale composition.
Acid cleaner	Citric acid	10% solution	A mild acid usually used as an ammoniated solution for removal of iron oxides.
Acid coil cleaner	Phosphoric acid, hydrochloric acid, surfactants & inhibitors	5% solution	For removal of deposits on aluminum fins or cooling coils & air handling units. Excellent for removal of iron oxides.
Acid cleaner	HEDP, dispersants, disinfectant, surfactant	0.1-2%	For removal of iron oxide deposits prior to commissioning of water systems.
<b>DEGREASERS</b>			
Precommissioning alkaline cleaner	Cautic, EDTA, gluconate, surfactant	7000-10000 ppm	Great cleaner for grease, oil & biofouling. Will also remove light rust. NOT TO BE USED with Al, Zn or WOOD
Cautic neutraliser	Sodium hydroxide-48% liquid	As required	For neutralisation of acidic liquids and for pH adjustment.

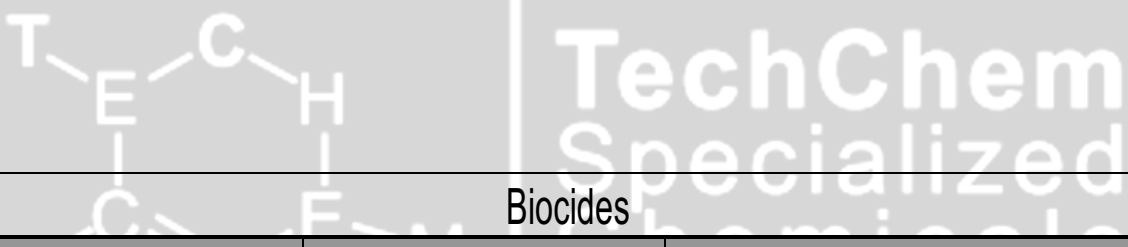
Waste water				
FUNCTION	ACTIVES			DOSAGE
<b>ANIONIC POWDER</b>				
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 0	MA (%) = 100	Viscosity (UL) = 3.8 - 4.4	Depending on application.
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 3	MA (%) = 100	Viscosity (UL) = 4.8 - 5.5	Depending on application.
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 10	MA (%) = 100	Viscosity (UL) = 3.3 - 4.3	Depending on application.
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 10	MA (%) = 100	Viscosity (UL) = 5.1 - 5.7	Depending on application.
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 10	MA (%) = 100	Viscosity (UL) = 5.7 - 6.5	Depending on application.
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 30	MA (%) = 100	Viscosity (UL) = 4 - 5	Depending on application.
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 30	MA (%) = 100	Viscosity (UL) = 5.7 - 6.5	Depending on application.
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 30	MA (%) = 100	Viscosity (UL) = 6.5 - 7.5	Depending on application.
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 7	MA (%) = 100	Viscosity (IV) = 14-16	Depending on application.
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 15	MA (%) = 100	Viscosity (IV) = 17-19	Depending on application.
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 29	MA (%) = 100	Viscosity (IV) = 24	Depending on application.
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 48	MA (%) = 100	Viscosity (IV) = 21-23	Depending on application.
<b>ANIONIC BEADS</b>				
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 9	MA (%) = 100	Viscosity (IV) = 10-12	Depending on application.
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 30	MA (%) = 100	Viscosity (IV) = 10-12	Depending on application.

Waste water					
FUNCTION	ACTIVES			DOSAGE	COMMENTS
<b>CATIONIC POWDER</b>					
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 5	MA (%) = 100	Viscosity (UL) = 3.5 - 4	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 25	MA (%) = 100	Viscosity (UL) = 3.4 - 4.2	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 35	MA (%) = 100	Viscosity (UL) = 3.2 - 3.6	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 45	MA (%) = 100	Viscosity (UL) = 3 - 3.8	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 55	MA (%) = 100	Viscosity (UL) = 3.1 - 3.8	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 80	MA (%) = 100	Viscosity (UL) = 3.2 - 3.8	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 25	MA (%) = 100	Viscosity (UL) = 2.9 - 3.6	Depending on application.	Crosslink product
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 40	MA (%) = 100	Viscosity (UL) = 2.9 - 3.6	Depending on application.	Crosslink product
Polyacrylamide (water treatment and sludge dewatering)	Charge density (mole %) = 60	MA (%) = 100	Viscosity (UL) = 2.9 - 3.6	Depending on application.	Crosslink product
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 7	MA (%) = 100	Viscosity (IV) = 12-14	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 22	MA (%) = 100	Viscosity (IV) = > 13	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 22	MA (%) = 100	Viscosity (IV) = 11-13	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 38	MA (%) = 100	Viscosity (IV) = > 12	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 40	MA (%) = 100	Viscosity (IV) = 10-12	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 58	MA (%) = 100	Viscosity (IV) = 14	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 60	MA (%) = 100	Viscosity (IV) = 8-10	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 73	MA (%) = 100	Viscosity (IV) = > 14	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 76	MA (%) = 100	Viscosity (IV) = 11-14	Depending on application.	
<b>CATIONIC BEADS</b>					
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 30	MA (%) = 100	Viscosity (IV) = 6-8	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 38	MA (%) = 100	Viscosity (IV) = 7-9	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 58	MA (%) = 100	Viscosity (IV) = 6-8	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 74	MA (%) = 100	Viscosity (IV) = 6-8	Depending on application.	
Polyacrylamide (water treatment and sludge dewatering)	Charge density (weight %) = 85	MA (%) = 100	Viscosity (IV) = 4-5	Depending on application.	

Biocides			
FUNCTION	ACTIVES	DOSAGE	COMMENTS
<b>OXIDISING BIOCIDES</b>			
Oxidising Biocide	Peracetic Acid - Hydrogen peroxide mix.	0.50%	Biodegradable sanitizer. Food grade. Quick killer -
Oxidising Biocide	Sodium Hypochlorite Liq. Combination to form hypobromous acid.	8 ppm of each product to form 1 ppm free chlorine.	Quick kill - less than 30 mins.
Oxidising Biocide	Bromo-chloro-dimethyl hydantoin	Applied to provide 0.25 - 1 ppm bromine.	Quick kill - less than 30 mins. Need a brominator equipment.
Oxidising Biocide	Sodium Dichlor-iso-cyanurate - powder.	50 ppm.	Quick kill - less than 30 mins.
<b>BROMINE SUPPLEMENTS</b>			
To be used with chlorine gas or liquid.	Sodium Bromide (20%) to form hypobromous acid.	15 ppm of each product to form 1 ppm free chlorine.	Quick kill - less than 30 mins.
To be used with chlorine gas or liquid.	Sodium Bromide (50%) to form hypobromous acid.	8 ppm of each product to form 1 ppm free chlorine.	Quick kill - less than 30 mins.
To be used with chlorine gas or liquid.	Sodium Bromide/AMINE (40%) to form hypobromous acid.	8 ppm of each product to form 1 ppm free chlorine.	Quick kill - less than 30 mins.
<b>ISOTHIAZOLIN</b>			
Non Oxidising Biocide	Isothiazoline	150 ppm	Contact kill time 6 - 8 hours.
Non Oxidising Biocide	Isothiazoline	50 ppm	Contact kill time 6 - 8 hours.
Non Oxidising Biocide	Isothiazoline/Glutaraldehyde Mix.	Up to 400 ppm	Broad spectrum. Excellent single product for cooling towers.



Biocides			
FUNCTION	ACTIVES	DOSAGE	COMMENTS
<b>QUATS</b>			
Non Oxidising Biocide	Quaternary ammonium	10 ppm	Contact kill time 3 - 4 hours.
Non Oxidising Biocide	Polymeric biguanide	30 ppm	Contact kill time 2 - 3 hours. May also be used as a Sanitiser at high concentration in food applications.
Non Oxidising Biocide	Polymeric quaternary.	15 ppm	Contact kill time 6 - 8 hours.
Non Oxidising Biocide	Quaternary Phosphonium	50 ppm	Contact kill time 6 - 8 hours.
<b>GLUTARALDEHYDE</b>			
Non Oxidising Biocide/Biodispersant.	Glutaraldehyde + Surfactant	100 ppm	Contact kill time less than 2 hours.
Non Oxidising Biocide.	Glutaraldehyde + Quaternary Ammonium	80 ppm.	Excellent broad spectrum.
<b>OTHERS</b>			
Non Oxidising Biocide.	Hydroxymethylphosphonium Sulphate.	200 - 1000 ppm	Good for Legionella
Non Oxidising Biocide	Dibromo-nitrilo-propionamide.	20 ppm	Contact kill time 2 - 3 hours. pH sensitive. -
Non Oxidising Biocide.	Sodium dimethylthiocarbamate.	50 - 400 ppm	Good for Sulfato reducing bacteria. Cost effective.
Non Oxidising Biocide.	Copper Sulphate, flocculant.	0.5 - 5 ppm.	Excellent algicide.
Non Oxidising Biocide/biodispersant/sea water treatment.	Diamine Acetate	15 ppm	Contact kill time 2 - 3 hours. (Based on Biotreat B 203A)



TechChem

Specialized

Biocides		
FUNCTION	ACTIVES	DOSAGE
<b>CHAIN LUBRICANTS</b>		
Chain Lubricant Synthetic	Fatty alkyl amine	0.3 to 1.0% by vol. of water
Chain Lubricant Liquid	Blend of soaps	0.3 to 1.0% by vol. of water
Chain Lubricant Liquid	Blend of soaps	0.2 to 1.0% by vol. of water
<b>BOTTLE WASHING ADDITIVES</b>		
Chelated bottle washing additive	Organic Chelants and Wetting agents	2.5% - 5.0% by dry weight NaOH used, 5.0% - 10.0% with 45% Caustic Lye
<b>C.I.P. CLEANERS &amp; SANITIZERS</b>		
Concentrated Chlorinated Alkali Liquid Detergent	Chlorinate Alkali	0.5 - 2.0% by vol of water
Liquid Sanitizer	Blend of phosphoric and sulphonic acids and surfactants	0.5 - 2.0% by vol of water
Liquid Sanitizer	Blend of phosphoric and sulphonic acids and surfactants	0.25 - 2.0% by vol of water
Liquid Sanitizer	Paracetic hydrogen peroxide	5 - 500ppm
Liquid Sanitizer	Paracetic hydrogen peroxide	0.15 - 0.50% by vol of water
Liquid Sanitizer	Phosphoric acid & QAC	0.2 - 0.3% by vol of water
Liquid Sanitizer	Blend of quaternaries coupled to aldehydes	0.2 - 0.5% by vol of water