



PRODUCT INFORMATION SHEET

Antifoam / Dispersant

<u>Item</u>	<u>Summary</u>	<u>Application</u>	<u>Features</u>
43 AF	43 AF is a non-silicon based antifoam for food processing and industrial use.	43 AF is suitable for all cooling towers as well on a variety of industries including, petrochemical, food processing, textile industry, processing and effluent treatment	43 AF is an additive for cooling towers. 43AF is not chemically reactive, this enables 43 AF to be non-corrosive and provide a long life within the cooling tower. 43AF prevents the foaming of dispersants, QAC and similar chemicals without changing the effectiveness of the other chemicals. 43AF can be added directly to many Chemology raw biocides.
49DISP	49DISP is a DMAD bio-dispersant	49DISP is suitable for all cooling towers for the dispersant for the removal of microbiological build up and debris, slimes and bio-films	Helps maintain cooling systems heat transfer efficiency, improves the effectiveness of any biocide program, stable over a wide pH range.

Boilers

<u>Item</u>	<u>Summary</u>	<u>Application</u>	<u>Features</u>
30BT	30 BT is an ammonia condensate treatment that is approved for use in the food and beverage industry for contact with milk and milk products	30BT is specifically designed for boiler condensate return systems	30BT is a condensate treatment which has excellent pH control abilities.
30UBT	Same as 30BT	Same as 30BT	30 UBT is a USDA compliant version of 30 BT.
31BT / 32 BT	31BT / 32 BT are blends of phosphate scale inhibitors & polymer dispersants.	Descaling and cleaning boilers	31BT / 32BT are a blend of specialised chemicals designed to disperse sludge and inhibit scale. Both contain the latest polymer technology to aid in the rapid and efficient dispersion of suspended solids.
32 UBT	Same as 32 BT	Same as 32 BT	32 UBT is a USDA compliant version of 32BT
33 BT	33 BT contains 2 natural tannins and a sulphite O ₂ scavenger.	33BT is suitable for low to medium pressure boilers that are dosed infrequently or used intermittently. Best to be used on softened water supplies.	Tannin programs contribute to form a tannate film on boiler tubes which will give additional protection for at least 48 hours should chemical dosing cease. Does not contribute to boiler water inorganic TDS. Use in conjunction with phosphate, alkalinity and dispersant programs
33 UBT	Same as 33 BT	Same as 33 BT	33 UBT is a USDA compliant version of 33 BT.

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34 BT	34BT liquid dual sulphite blend.	34BT is designed for use for a variety of steam low to high pressure boilers.	Removes oxygen by chemical reaction. Incompatible with high pH products and should always be dosed separately into the feed tank or boiler feed water line. Do not combine and must be used in conjunction with phosphate, polymers and alkali.
34 UBT	Same as 34 BT	Same as 34 BT	34 UBT is a USDA compliant version of 34 BT
35 BT	35BT contains a dispersant and an alkalinity builder	Convenience product – Boiler alkaline dispersant.	35T is an alkaline blend of specialised chemicals designed to disperse sludge from boilers. 35BT also has added alkalinity building chemicals. 35 BT contains the latest polymer technology to aid in the rapid and efficient dispersion of suspended solids.
36 BT	36 BT contains sodium hydroxide	Control dosage by monitoring boiler water alkalinity	36 BT is a highly concentrated alkalinity builder. Operators should dose 36BT into boiler feedwater to reduce corrosion, reduce silica deposits and aid in the formation of magnesium hydroxide.
36 UBT	Same as 36 BT	Same as 36 BT	36 UBT is a USDA compliant version of 36 BT.
37 BT	37BT Dual catalysed sulphite O ₂ scavengers, a dispersant, a scale inhibitor and an alkalinity builder	Convenience product – Boiler alkaline dispersant and scale/corrosion control	37 BT is a specialised blend of chemicals designed to act as a one shot O ₂ scavenger, dispersant & alkalinity builder. 37 BT aids in oxygen scavenging, aids in the formation of magnesium hydroxide and will assist in the rapid and efficient dispersion of suspended solids.
38 BT	38BT contains 2 amine corrosion inhibitors	38BT is specifically designed for condensate return systems. Neutralising amines based on Cyclohex and Morpholine	38BT protects condensate return systems from carbon dioxide attack across a range of pressures. The blended amines protect the system and maintain a good condensate pH while minimising the concentration of amines required.

Biocides / Algaecides

Item	Summary	Application	Features
40 CHL	40 CHL is liquid chlorine (sodium hypochlorite 12.5%). 40CHL is an oxidising biocide.	40CHL is suitable for smaller cooling towers with low quantities of existing organic matter, (e.g. leaves, existing algae etc.)	Sodium hypochlorite is simple, traditional, well known and broad spectrum. The sodium hypochlorite and by-products corrode soft metals. For towers with soft metal surfaces, please use 40 CHL in conjunction with a Chemology corrosion inhibitor.
62 BIO	62 BIO contains a broad mixture of mixed isothiazolones and Glute biocides to prevent biocide resistance. 62 BIO is a non-oxidising biocide.	62 BIO is suitable for cooling towers of all sizes and types. First choice as a primary biocide	62 BIO is a broad spectrum biocide and guards cooling towers against resistance. 62 BIO is highly effective over a broad pH range and remains active in the water system. 62 BIO is effective against yeast, moulds, fungi and bacteria. Excellent legionella control and average algae control.
63 BIO	63 BIO is comprised of hydrogen peroxide (50%). 63 BIO is an oxidising biocide.	63 BIO is suitable for smaller cooling towers with low quantities of organic matter, e.g. leaves, existing algae etc.)	Hydrogen peroxide is simple, traditional, well known, very fast acting broad spectrum. Hydrogen peroxide dissipates quickly without leaving any residues. 63 BIO compliments Chemology non-oxidising biocides. Strong doses of 63 BIO can help remove organic matter and bio-films from inside cooling towers. 63 BIO is a very strong oxidising agent and should be handled and applied with care.
64BIO	64 BIO is a Gluteraldehyde and Quat blend	64 BIO is suitable for cooling towers of all sizes and types.	Very good general purpose non-oxidising biocide. Excellent control of slime forming bacteria.

	64 BIO is an non-oxidising biocide	Good primary biocide	
65 BIO	65 BIO is an alkaline mixture of halogens. 65 BIO is an oxidising biocide.	65 BIO is suitable for cooling towers susceptible to bacteria, yeasts, mould, fungi & algae.	65 BIO contains chlorine and bromine. 65 BIO is more cost effective and operates at a wider pH range than chlorine. 65 BIO is broad spectrum. 65 BIO is highly effective against yeasts, moulds, fungi and algae.
68 BIO	68 BIO contains a broad mixture of mixed isothiazolones 1.5% concentration.	68 BIO is suitable for cooling towers of all sizes and types. First choice as a primary biocide	65BIO is a broad spectrum biocide & guards cooling towers against resistance. 65BIO is highly effective over a broad pH range, remains active in the water system & is effective against yeast, moulds, fungi & bacteria. Excellent legionella control and average algae control.
Item	Summary	Application	Features
600 BIO	600 BIO contains 20% DBNPA. 600 BIO is a non-oxidising biocide	600 BIO is suitable for cooling towers of all sizes, types and amounts of organic matter, (e.g. leaves, existing algae etc.)	DBNPA slowly releases ammonia and bromine. 600 BIO is highly effective over a broad pH range and remains active in the water system to provide extended biological control. 600 BIO guards against resistance. Low concentration rates and compatible with scale/corrosion inhibitors
601 BIO	601 BIO contains a broad mixture of mixed isothiazolones 4% concentration. 601 BIO is a non-oxidising biocide	Same as 62BIO	Same as 62BIO
602BTAB	602 BTAB are slow release bromine tablets 602 BTAB is an oxidising biocide	Evaporative air conditioners or small cooling tower	602 BTAB slowly releases bromine into the cooling system. 602 BTAB is broad spectrum and highly effective against yeasts, fungi and moulds.
605 BIO	605BIO is a PAA based food grade, biodegradable no rinse sanitiser for the food and beverage industry.	605BIO is suitable for commercial breweries, wineries, bottle washing, CIP systems and sanitising fruit & vegetables	605BIO is a highly capable efficient sanitiser that is effective against all microorganisms and viruses. 605BIO is a food grade, biodegradable, non-foaming no rinse sanitiser. 605 BIO will not corrode stainless steel. Highly economical and capable of killing all microorganisms and viruses.
606 BIO	606 BIO is a Gluteraldehyde solution 606 BIO is a non-oxidising biocide	606 BIO is suitable for cooling towers of all sizes, types and amounts of organic matter, (e.g. leaves, existing	606 BIO is a good general purpose non-oxidising biocide. Has good legionella control. Broad spectrum biocide, good algacide
607 BIO	607 BIO is a QAC quaternary ammonium compound 607 BIO is a non-oxidising biocide	607 BIO is suitable for cooling towers of all sizes, types and amounts of organic matter, (e.g. leaves, existing	Good surface active quaternary biocide, non-oxidising, good secondary biocide,
650 BIO	650BIO is a premium, stabilised, slow release liquid bromine biocide 650 BIO is an oxidising biocide.	650BIO is well suited for cooling towers with longer recirculating water systems, cooling towers that operate in adverse conditions and chemical storage in high temperature environments.	650BIO provides longer biocide control than other non-stabilised oxidising formulations. 650 BIO is very effective against bacterial, algal and fungal growth and is excellent at controlling biofilm.

Corrosion Inhibitors

<u>Item</u>	<u>Summary</u>	<u>Application</u>	<u>Features</u>
50 CT	50 CT is a molybdate phosphate based corrosion inhibitor	50 CT is suitable for cooling towers that utilise hard water. Not suitable for systems that contain aluminium.	50 CT contains a molybdate general corrosion inhibitor, a corrosion inhibitor that protects copper, a scale inhibitor and a dispersant to prevent the settling of inorganic particles. 50 CT will not form hard precipitates with calcium in hard water like phosphate scale inhibitors.
51 CT	51CT is a Zinc phosphonate based corrosion inhibitor	51 CT is suitable for cooling towers that utilise soft to medium hardness water supply	51 CT contains a zinc phosphonate general corrosion inhibitor, a corrosion inhibitor that protects copper, a dispersant to prevent the settling of inorganic particles and a scale inhibitor. 50 CT is stable in changing temperatures, oxidising & non-oxidising biocides. Zinc phosphonate reacts with calcium to form a hard precipitate. Cooling tower technicians servicing cooling towers in hard water areas should utilise Chemology 50 CT.
51OCT	51OCT is same as 51CT but is pH neutral.		
52 CC	52CC is a nitrite based mixture of antioxidants, a dispersant, an alkalinity builder and a copper inhibitor.	52 CC is designed for closed circuit systems	52 CC is a highly concentrated blend of copper and soft metal corrosion inhibitors especially designed for both hot and chilled closed water systems. 52 CC has an advanced polymer to disperse hardness or scale that may have formed in the system. Operators can add a colour indicator to 52 CC to identify leaks. Not to be used in circuits containing aluminium
53 CT	53CT is an excellent and versatile blend of molybdate, phosphates and nitrates for the prevention of scale and corrosion	53CT can be used in either closed or aerated cooling systems.	53CT can be used in systems that contain aluminium, copper and other soft metals and is also recommended for softened water systems. 53CT prevents scale while remaining fully compatible with the water present in the system. pH neutral product
505 CT	505CT is a versatile blend of molybdate, phosphates and pH buffers for the prevention of scale and corrosion.	Same as 50CT	505 CT contains a molybdate general corrosion inhibitor, a corrosion inhibitor that protects copper, a scale inhibitor and a dispersant to prevent the settling of inorganic particles. 505 CT will not form hard precipitates with calcium in hard water like phosphate scale inhibitors.

Descalers / Cleaners

<u>Item</u>	<u>Summary</u>	<u>Application</u>	<u>Features</u>
10 AC	10 AC is hydrochloric acid (31-35%)	Boiler & cooling tower technicians should use 10 AC to descale boilers and cooling towers respectively.	10AC is full strength, concentrated, fast acting and economical. 10AC is a liquid and highly water soluble for easy dosing. Operators should wear personal protective equipment (PPE) when handling 10AC.
10AC-9	9% Hydrochloric Acid	As per 10AC	As per 10AC
11 AC	11AC is a blend of sulphamic acid (50%) and citric acid (50%) powder	Boiler & cooling tower technicians should use 11 AC to descale boilers and cooling towers respectively Ideal for acid descaling chiller units.	11AC is an operator and equipment friendly alternative for descaling equipment. 11AC provides a medium acidity for a long duration. 11AC is easy to store and handle. Inexperienced operators are less likely to corrode equipment, skin or eyes with 11AC than 10AC.

Liquid Sodium Hydroxide

<u>Item</u>	<u>Summary</u>	<u>Application</u>	<u>Features</u>
90 A B & D	The 90 range of liquid sodium hydroxide is available in 30%w/v(90A), 50% w/v(90B) and 46% w/v (90D)	Liquid Sodium hydroxide is suitable for a wide range of applications including waste water treatment, cleaning and chemical manufacturing.	The 90 range offers varying strengths to suit the individual needs on the application, it is easy to dose and non-foaming.

pH Adjusters

<u>Item</u>	<u>Summary</u>	<u>Applications</u>	<u>Features</u>
10 AC	10AC is a full strength liquid acid.	10AC lowers the pH of wastewater	10AC is full strength. 10AC is less corrosive to equipment and easier to dose than stronger acids. 10AC is hydrochloric acid 31-35%
12 AC	12AC is a user friendly liquid acid.	12AC lowers the pH of wastewater	12 AC is operator and equipment friendly. 12 AC is easy to handle, transport and store. 12 AC is liquid citric acid 50% and is comprised only of carbon, hydrogen and oxygen. 12 AC is popular in the wine industry.
13 AC	13AC is a liquid acid. 13AC comes in varying strengths to suit individual needs.	13AC lowers the pH of wastewater 13AC is available in 25%, 34%, 50% and 98% concentrations	13AC is highly concentrated and provides excellent value. 13AC provides twice the acidity of an equivalent amount of nitric or hydrochloric acid. 13AC is sulphuric acid based. 13AC provides sulphur in wastewater to increase the nutritional value for plants and microorganisms.

15AC	15% w/v liquid sulphamic acid.	15AC lowers the pH of wastewater	15AC is non fuming and less aggressive than other acids.
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Pre Cleaners & Cleaners

<u>Item</u>	<u>Summary</u>	<u>Application</u>	<u>Features</u>
41 PC	41 PC is a highly effective alkaline cleaner for closed loops, pipes and heating circuits	Ideal treatment for pre-commissioning cleans	41 PC contains a mixture of alkalinity builders, sulphite O ₂ scavenger's and phosphate dispersants to clean and prepare a boiler or closed water circuit for its first operation.
70 CIP	70 CIP is a foaming chlorinated alkali.	Agriculture and the food & beverage industry	70 CIP is a high foaming, food grade, biodegradable and purpose built cleaner to remove fats and proteins. 70 CIP has a high strength formula that utilises potassium hydroxide to help protect equipment and produce a more liquid soap. 70 CIP creates stable foam that sticks to vertical and inverted surfaces to maximise protein and fat removal. Organic matter is comprised of oils, proteins and starch. Starch is water soluble. The alkalis remove oils. Chlorine removes protein.
700CIP	700CIP removes fats and proteins from food and beverage equipment	700CIP is a food grade, biodegradable, non-foaming, purpose built cleaner to remove fats and proteins and other organic matter from food and beverage equipment	700CIP is a highly effective, excellent value, biodegradable high concentration solution with enhanced saponification features. 700CIP will not corrode concrete or stainless steel.

Sanitisers

<u>Item</u>	<u>Summary</u>	<u>Application</u>	<u>Features</u>
19AC	Sodium Metabisulphite 37% (liquid)	19AC is a no rinse sanitiser for food & beverage contact equipment & packaging. This product is suitable for wineries, breweries, bottling halls and fermented foods. 19AC is for enterprises that prefer not to use hydroxide peroxide.	19AC produces a steady volume of no rinse sanitising sulphur dioxide liquid and gas. When natural organic acids come into contact with sodium metabisulphite, any remaining 19AC reacts to form sulphur dioxide such that no traces of this sanitiser are detectable in the food or beverage. Sulphur dioxide is broad spectrum. 19AC is user and equipment friendly.

81 SAN	81 SAN is a dual chain Quat CIP, foaming and fogging sanitiser.	81 SAN is a no rinse sanitiser and deodorant for industries that are concerned with bacteria such as E. Coli, Salmonella and Golden Staff. 81 SAN is particularly suitable for high industries that manufacture high protein packaged foods. 81 SAN is also for vehicles, footbaths and equipment for agricultural industries concerned with bacterial pathogens.	Quaternary Ammonium Compounds are the world's second most popular class of sanitiser (after chlorine). 81SAN contains an excellent modern formulation that is highly lethal to bacteria that commonly cause illness in the food industry. Unlike chlorinated sanitisers, 81SAN is colourless, flavourless, odourless, and non-corrosive and will not react with foods or beverages to form undesirable chemicals. 81SAN can be used in CIP, foam and fogging equipment. Field test kits are available from Chemology.
82 SAN	82 SAN is a food safe, foaming and chlorinated sanitiser and also a mild cleaner.	81 SAN is suitable for walls, ceilings and equipment in the food industry.	82SAN produces chlorinated, mildly alkaline foam for sanitising vertical and inverted surfaces. 82 SAN is highly effective against a broad spectrum of yeasts, moulds, fungi, bacteria and viruses.

Coagulant /Flocculent & Polymers

The range of these chemicals is quite extensive and site specific to suit your needs.

This range includes poly-aluminium chloride PAC, aluminium Chlorohydrate, aluminium sulphate, polydadmac, cationic polyelectrolyte and anionic polyacrylamide.