

**RAKIRO BIOTECH SYSTEMS PVT LTD**

R-466, TTC Industrial Area, MIDC
Rabale, Navi Mumbai - 400701
Tel No. +91-022-27642236 / 7
Email :- enquiry@rakiro.net

Doc No :	PD-WT-2000
Rev No :	0
Product :	WATREET
Product Code :	WT-2000

PRODUCT DATA SHEET

1	INFORMATION WATREET 2000 - MULTIPURPOSE: SCALE, CORROSION INHIBITOR AND DISPERSANT
2	DESCRIPTION Cooling water treatment is recommended for use in industrial cooling waters, air conditioning systems and air washers, where a complete liquid treatment is essential. WATREET 2000 contains a unique combination of inhibitors for protection of cooling system metals from corrosion. In addition, the product contains organic sequestrants and anti-foulants to assure control of scale and non-biological fouling of water.
3	SALIENT FEATURES Product Does Not Contain Zinc Or Chromate Complete Treatment from Single Product. Maximum Corrosion Protection Environmental Friendly For All the System Metals Easy To Use & Safe To Handle
4	ANALYTICAL DATA Appearance : Brown colour liquid pH : 10.5 - 13.5 Specific Gravity : 1.0 to 1.1 @ 25C
5	HANDLING INSTRUCTIONS Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	RECOMMENDED DOSAGE An dosage of 70 PPM is recommended but this dosage is to be adjusted in such a way that it should give protection to the system, while being economical. Dosage might vary depending on the parameters viz. the temperature of the system, the type of metal, the characteristic of the makeup water.

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Doc No :	PD-WT-2870
Rev No :	0
Product :	WATREET
Product Code :	WT-2870

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET – 2870 Multipurpose scale, corrosion inhibitor and dispersant (High TDS) for cooling water
2	<u>DESCRIPTION</u> All organic Cooling water treatment is recommended for use in industrial cooling waters where a complete liquid treatment is essential for high TDS water. WATREET 2870 contains a unique combination of organic inhibitors for corrosion protection of cooling system metals. In addition, the product contains suitable blend of Phosphonate & terpolymers as organic sequestrants and anti – foulants to assure control of scale and non – biological fouling of water.
3	<u>SALIENT FEATURES</u> Product Does Not Contain Zinc Or Chromate Complete Treatment from Single Product. Maximum Corrosion Protection Environmental Friendly For All the System Metals Easy To Use & Safe To Handle
4	<u>ANALYTICAL DATA</u> Appearance : Brown colour liquid pH : 10.5 to 13.5 Specific Gravity : 1.0 to 1.1 @ 250C
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight . Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	<u>RECOMMENDED DOSAGE</u> An dosage of 70 PPM is recommended but this dosage is to be adjusted in such a way that it should give protection to the system, while being economical. Dosage might vary depending on the parameters viz. the temperature of the system, the type of metal, the characteristic of the makeup water.

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Doc No :	PD-WT-2890
Rev No :	0
Product :	WATREET
Product Code :	WT-2890

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET – 2890 Multipurpose: scale, corrosion inhibitor and dispersant (Zinc/ Phosphonate base)
2	<u>DESCRIPTION</u> Cooling water treatment is recommended for use in industrial cooling waters, air conditioning systems and air washers where a complete liquid treatment is essential. WATREET 2890 contains a unique combination of organic corrosion inhibitors, inorganic corrosion inhibitor as Zn for corrosion protection of cooling system metals. In addition, the product contains latest polymers, dispersing agent and phosphonate based scale inhibitor-antifoulants to assure control of scale and non – biological fouling of water.
3	<u>SALIENT FEATURES</u> Product Does Not Contain Zinc Or Chromate Complete Treatment from Single Product. Maximum Corrosion Protection Environmental Friendly For All the System Metals Easy To Use & Safe To Handle
4	<u>ANALYTICAL DATA</u> Appearance : Pale yellow to brown liquid pH : >10 Density : 1.0 – 1.1@25C
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	<u>RECOMMENDED DOSAGE</u> An dosage of 70 PPM is recommended but this dosage is to be adjusted in such a way that it should give protection to the system, while being economical. Dosage might vary depending on the parameters viz. the temperature of the system, the type of metal, the characteristic of the makeup water.

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Doc No :	PD-WT-D100
Rev No :	0
Product :	WATREET
Product Code :	WT-D100

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET D 100 - Scale / Deposit Control Agent
2	<u>DESCRIPTION</u> WATREET D100 is a unique scale / deposit control agent for low hardness / soft water treatment. Latest type of scale and corrosion inhibitors have been incorporated in the formulation which prevent deposits and protect systems metals of cooling water systems. The dispersion action of WATREET D 100 helps to keeps the system free from chemical fouling.
3	<u>SALIENT FEATURES</u> Multipurpose: scale, corrosion, fouling treatment. Ready To Use Liquid Easy To Use & Safe To Handle
4	<u>ANALYTICAL DATA</u> Appearance : Clear colourless to pale yellow liquid. pH : Acidic Specific Gravity : 1.0 to 1.1 @ 25C
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	<u>RECOMMENDED DOSAGE</u> An dosage of 50 PPM is recommended but this dosage is to be adjusted in such a way that it should give protection to the system, while being economical. Dosage might vary depending on the parameters viz. the temperature of the system, the type of metal, the characteristic of the makeup water.

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Doc No :	PD-WT-D200
Rev No :	0
Product :	WATREET
Product Code :	WT-D200

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET D 200 - Scale / Deposit Control Agent
2	<u>DESCRIPTION</u> WATREET D 200 is a unique scale /deposit control agent for moderate hardness / soft water treatment. Latest type of scale and corrosion inhibitors have been incorporated in the formulation which prevent deposits and protects system metals of cooling towers. The dispersion action of WATREET D 200 helps to keeps the system free from chemical fouling.
3	<u>SALIENT FEATURES</u> Multipurpose: scale, corrosion, fouling treatment. Easy To Use & Safe To Handle Ready To Use Liquid Good dispersion action
4	<u>ANALYTICAL DATA</u> Appearance : Clear colourless to pale yellow liquid. pH : Acidic Specific Gravity : 1.0 to 1.1 @ 25C
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention
6	<u>RECOMMENDED DOSAGE</u> An dosage of 50 PPM is recommended but this dosage is to be adjusted in such a way that it should give protection to the system, while being economical. Dosage might vary depending on the parameters viz. the temperature of the system, the type of metal, the characteristic of the makeup water.

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Doc No :	PD-WT-A100
Rev No :	0
Product :	WATREET
Product Code :	WT-A100

PRODUCT DATA SHEET

1	INFORMATION WATREET A 100-Dispersant / Anti-foulant
2	DESCRIPTION WATREET A 100 is a synthetic organic anti-foulant which inhibits the deposition of fouling materials on the heat transfer surfaces. Fouling caused by dead microbiological growth, phosphates, silicates, metallic oxides silt and other air-borne materials can be eliminated. WATREET A 100 keeps surfaces clean, maintains a high rate of heat transfer and aids the formation of corrosion inhibitor film.
3	SALIENT FEATURES Improves heat transfer Ready-to-use-liquid Easy to handle and feed Effective at low dosages Prevents and removes deposits Chemically stable keep surface clean Keeps tower basin clean
4	ANALYTICAL DATA Appearance : Pale yellow colour liquid pH : N.A. Specific Gravity : 1.0 To 1.1
5	HANDLING INSTRUCTIONS Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	RECOMMENDED DOSAGE An dosage of 50 PPM is recommended but this dosage is to be adjusted in such a way that it should give protection to the system, while being economical. Dosage might vary depending on the parameters viz. the temperature of the system, the type of metal, the characteristic of the makeup water.

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Doc No :	PD-WT-A200
Rev No :	0
Product :	WATREET
Product Code :	WT-A200

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET A 200-Biodispersant Formulation
2	<u>DESCRIPTION</u> WATREET A 200 is a synthetic organic Biodispersant which is effective in removing dead algae and slimy material from the cooling system. WATREET A-200 Biodispersant formulation has a capacity to penetrate inside thick algal mats on the cooling tower deck or fills and helps penetration of biocide on the biomass. WATREET A-200 has a detergent effect and it cleans the system on line. Generally this product is dosed prior to biocide or along with the biocide addition. It is preferably dosed daily.
3	<u>SALIENT FEATURES</u> Biodispersing and detergent action Effective at low dosages. Ready To Use Liquid Prevents and removes slime Chemically stable Easy To Use & Safe To Handle
4	<u>ANALYTICAL DATA</u> Appearance : Clear,clourless to yellow colour liquid. pH : 5.5 – 8.5 Specific Gravity : 1.0 to 1.1 @ 25C
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	<u>RECOMMENDED DOSAGE</u> An initial dose of 25 -50 ppm is added. This dose may be repeated once or twice in a week or as required to control the growth prior to Biocide addition. Alternatively, daily 5 ppm dose is maintain for two to three weeks

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Doc No :	PD-WT-A201
Rev No :	0
Product :	WATREET
Product Code :	WT-A201

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET A 201-Biodispersant Cleaner
2	<u>DESCRIPTION</u> WATREET A 201 is a synthetic organic Biodispersant which is effective in removing dead algae and slime mass from cooling system. WATREET A-201 Biodispersant formulation has a capacity to penetrate inside the thick algae mats on the cooling tower deck or fills and help the biocide to penetrate the biomass. WATREET A-201 has a detergent effect and it cleans the system on line. Generally this product is dosed prior to biocide or along with biocide. Daily addition of A 200 (once in 24 Hrs.) results in clean cooling system.
3	<u>SALIENT FEATURES</u> Biodispersing and detergent action Prevents and removes slime Ready To Use Liquid Chemically stable Helps to keep surface clean Effective at low dosages Easy to handle and feed Helps to keeps tower basin clean
4	<u>ANALYTICAL DATA</u> Appearance : Clear, Colourless to yellow colour liquid. pH : 5.5 to 8.5 Specific Gravity : 0.90 to 1.05 @ 25C
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	<u>RECOMMENDED DOSAGE</u> Cooling tower systems which are heavily contaminated should be cleaned before the addition of biocide. An initial dose of 30-50 ppm is added. This dose may be repeated once or twice in a week or as required, to control the growth prior to Biocide addition. Alternatively, a daily dose of 5 ppm is maintained for two to three weeks. Subsequently the dosage may be adjusted after microbial control is evident.

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Doc No :

PD-WT-B101

Rev No :

0

Product :

WATREET

Product Code :

WT-B101

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET B 101 -QUATERNARY AMMONIUM BASED BIOCIDAL FORMULATION
2	<u>DESCRIPTION</u> WATREET B-101 biocide is effective in controlling bacterial slime and fungal growth in industrial recirculating cooling water systems, air washer systems and evaporate condensers. WATREET B-101 is also effectively used in paper mills and cane sugar mills. WATREET B-101 is a highly effective Microbiocide formulation wherein it forms electrostatic bonds with carboxyl group in protein and enzymes that interfere with oxidation-reduction and other biochemical reactions. Quaternary ammonium compounds penetrate cell wall, lysis occurs, and metabolites leak out causing death of cell, thereby stunting their growth.
3	<u>SALIENT FEATURES</u> Broad spectrum biocide Ready To Use Liquid Effective over a wide pH range
4	<u>ANALYTICAL DATA</u> Appearance : Clear colourless to pale yellow colour liquid pH : 6 to 9 Specific Gravity : 0.9 to 1.1 @ 25C
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	<u>RECOMMENDED DOSAGE</u> Cooling tower systems which are heavily contaminated should be cleaned before the addition of biocide. An initial dose of 70 ppm is added. This dose may be repeated once or twice in a week or as required to control the growth. Subsequently the dose may be adjusted after microbial control is evident.

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Doc No :	PD-WT-B201
Rev No :	0
Product :	WATREET
Product Code :	WT-B201

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET B 201-CARBAMATE BASED BIOCIDES FORMULATION
2	<u>DESCRIPTION</u> WATREET B-201 biocide is effective in controlling bacterial slime and fungal growth in industrial recirculating cooling water systems, air washer systems and evaporate condensers. WATREET B-201 is also effectively used in paper mills and cane sugar mills, secondary and tertiary oil recovery systems. WATREET B-201 is a highly effective Microbiocide formulation wherein it's chelating agent combines with the metal ions in the enzymes essential to the metabolism of microorganisms, thereby stunting their growth.
3	<u>SALIENT FEATURES</u> Broad spectrum biocide Compatible with other cooling water treatment Ready To Use Liquid Effective over a wide pH range Non foaming Easy To Use & Safe To Handle
4	<u>ANALYTICAL DATA</u> Appearance : Clear Pale yellow to Amber colour liquid pH : 9 to 11 Specific Gravity : 1.0 to 1.1 @ 25C
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	<u>RECOMMENDED DOSAGE</u> Cooling tower systems which are heavily contaminated should be cleaned before the addition of biocide. An initial dose of 70 ppm is added. This dose may be repeated once or twice in a week or as required to control the growth. Subsequently the dose may be adjusted after microbial control is evident.

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Doc No :	PD-WT-B300
Rev No :	0
Product :	WATREET
Product Code :	WT-B300

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET B-300-DICHLOROPHEN BASED BIOCIDIC FORMULATION
2	<u>DESCRIPTION</u> WATREET B-300 biocide is effective in controlling bacterial slime and fungal growth in industrial recirculating cooling water systems. WATREET B-300 is a highly effective Microbiocide formulation effective against most of the organisms , specially aerobacter , pseudomonas and sarcina etc.
3	<u>SALIENT FEATURES</u> Broad spectrum biocide Compatible with other cooling water treatment Ready To Use Liquid Effective over a wide pH range Non foaming Easy To Use & Safe To Handle
4	<u>ANALYTICAL DATA</u> Appearance : Clear Pale yellow to Amber colour liquid pH : 10.5 to 12.5 Specific Gravity : 1.0 to 1.2 @ 25C
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	<u>RECOMMENDED DOSAGE</u> Cooling tower systems which are heavily contaminated should be cleaned before the addition of biocide. An initial dose of 70 ppm is added. This dose may be repeated once or twice in a week or as required to control the growth. Subsequently the dose may be adjusted after microbial control is evident.

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Doc No :	PD-WT-B500
Rev No :	0
Product :	WATREET
Product Code :	WT-B500

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET B 500-DIAMINE BASED BIOCIDIC FORMULATION
2	<u>DESCRIPTION</u> WATREET B-500 biocide is effective in controlling bacterial slime and fungal growth in industrial recirculating cooling water systems. The product formulation is effective in the pH range 6.5 to 9.5. WATREET B – 500 is a highly effective e Mircobiocide formulation mainly it controls growth of algae and bacteria in open recirculating water systems. Its detergent action helps in cleansing cooling water tower.
3	<u>SALIENT FEATURES</u> Broad spectrum biocide Compatible with other cooling water treatment Ready To Use Liquid Effective over a wide pH range Non foaming Easy To Use & Safe To Handle
4	<u>ANALYTICAL DATA</u> Appearance : Clear Pale yellow to Amber colour liquid pH : 4.0 to 6.0 Specific Gravity : 0.9 to 1.1 @ 25C
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	<u>RECOMMENDED DOSAGE</u> Cooling tower systems which are heavily contaminated should be cleaned before the addition of biocide. An initial dose of 70 ppm is added. This dose may be repeated once or twice in a week or as required to control the growth. Subsequently the dose may be adjusted after microbial control is evident.



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Doc No :	PD-WT-B660
Rev No :	0
Product :	WATREET
Product Code :	WT-B660

PRODUCT DATA SHEET

1	INFORMATION	
	WATREET B 660-CHLORINE BASED BIOCIDES FORMULATION	
2	APPLICATION	
	<p>WATREET B-660 Chlorine releasing biocide is effective in controlling bacterial slime algae and fungal growth in industrial recirculating cooling water systems, air washer systems and evaporate condensers.</p> <p>WATREET B-660 is also effectively used in paper mills and in cane sugar mills, secondary and tertiary oil recovery systems.</p> <p>WATREET B-660 is a highly effective Microbiocide formulation wherein its released chlorine combines readily with the protoplasm, forming stable nitrogen – chlorine bonds with proteins. It is therefore, toxic to all living organisms and at high concentration produces general devastation within cells.</p>	
3	FEATURES	
	Broad spectrum biocide	Effective over a wide pH range
	Compatible with other cooling water treatment	Non foaming
	Ready to use liquid	Easy to handle
4	ANALYTICAL DATA	
	Appearance	White to off white colour powder
	pH	9 to 11
	Specific Gravity	
5	HANDLING	
	<p>Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.</p>	
6	DOSAGE	
	<p>Cooling tower systems which are heavily contaminated should be cleaned before the addition of biocide. WATREET B-660 is added to the cleaned system or when the microbial growth is first noticed , according to the following schedule : An initial dose of (50 ppm) is added. This dose may be repeated once or twice in a week or as required to control the growth. Subsequently the dosage may be adjusted accordingly. Generally we recommend around 10 ppm of WATREET B 660 to be added weekly as a maintenance dosage.</p>	

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Doc No :	PD-WT-B900
Rev No :	0
Product :	WATREET
Product Code :	WT-B900

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET B 900 - Isothiazoline based biocide
2	<u>DESCRIPTION</u> Watrete B-900 is an isothiazoline based broad spectrum non oxidizing microbiocide. Watrete B-900 is highly effective against all type of Biofilm including sessile & planktonic organisms. It controls of microorganisms growth specially recommended for cooling circuits prone to algal growth.
3	<u>SALIENT FEATURES</u> Broad spectrum biocide. Compatible with tap water, brackish water, sea water & other chlorine resistance membrane Cleans organic debris and biofilm Planktonic & sessile microorganism growth prevented
4	<u>ANALYTICAL DATA</u> Appearance : Light blue to green pH : 2 to 4 Specific Gravity : 1 to 1.1 @25C
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	<u>RECOMMENDED DOSAGE</u> Initial dose (100 ppm) is added. This dose may be repeated once or twice in a week or as required to control the growth. Subsequently the dosage may be adjusted after microbial control is evident. Generally around 50 ppm of WATREET B 900 is added weekly as a maintenance dosage.

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Doc No :	PD-WT-IC1153A
Rev No :	0
Product :	WATREET
Product Code :	WT-IC1153A

PRODUCT DATA SHEET

1	INFORMATION WATREET IC 1153 A - Closed Cooling System Cleaner
2	DESCRIPTION WATREET IC 1153 A is a Closed Cooling System Cleaner effective in removing deposit , sludges / foulants. WATREET IC -1153 A is a blend of specific chelating agents designed for removal of Iron, Calcium and Magnesium based deposits from cooling water systems. WATREET IC –1153 A removes these deposits as soluble species WATREET IC 1153A is found to be most effective in cleaning, where deposition or oil contamination is suspected of reducing heat transfer or restricting flow available. Deposits are softened and solublized as WATREET IC-1153A penetrates the deposits and enhances the action of cooling water dispersants to slough off remaining deposits. These would be removed during a blow down or draining. WATREET IC – 1153 A is effective at the normal pH operating range of recirculating cooling water systems. The product works best along with WATREET IC – 1153 B , a closed cooling system cleaner.
3	SALIENT FEATURES Removes deposits Non-corrosive Does not affect hoses and seals. Non-foaming. Environmental Friendly One step programme
4	ANALYTICAL DATA Appearance : Colourless to Yellow colour liquid. pH : 6.5 to 7.5 Specific Gravity : 1.0 to 1.2 @ 25C
5	HANDLING INSTRUCTIONS Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	RECOMMENDED DOSAGE Determine the foulants like hardness, Iron, Silica, Residual Oils etc. Inspect for soft geletenus, slime or other foulants. 1. Drain the water from the system. 2. Fill 50 % system volume with fresh clean water. Add 400 gm of WATREET IC 1153 A & 200 gm WATREET IC 1153 B per ton of water. Fill the system completely with water. 3. Circulate for eight hours. 4. Observe the turbidity of water. Drain out 50 % of the water and add 200 gm of WATREET IC 1153 A, 100 gm WATREET IC 1153 B per ton of water. Recirculate for three hours. 5. Rinse the system with water till you get a neutral pH. 6. Inspect visible parts. If hard scale deposits remain, clean with one more charge of WATREET IC 1153 A & B . 7. Refill the system with maintenance products .

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Doc No :	PD-WT-IC1153B
Rev No :	0
Product :	WATREET
Product Code :	WT-IC1153B

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET IC – 1153 B-Cleaner for closed Recirculating Cooling Water Systems
2	<u>DESCRIPTION</u> WATREET C-1153 B is a blend of organic dispersants which aid removal of various deposits from closed recirculating cooling systems by dislodging and solubilising deposit building blocks. Deposits are softened and solubilized as WATREET IC- 1153 B aids and supports the on-line deposit remover WATREET IC-1153 B to slough off the deposits. WATREET IC – 1153 B is effective at the normal pH range of recirculating cooling Water systems.
3	<u>SALIENT FEATURES</u> Aids to remove deposits on line Non-corrosive Ready to use liquid One step programme
4	<u>ANALYTICAL DATA</u> Appearance : Colour to pale yellow liquid pH : 8 to 10 Specific Gravity : 1.1 to 1.2 @ 25C
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	<u>RECOMMENDED DOSAGE</u> For on line cleaning of moderately fouled systems product to be used along with WATREET IC 1153 A. Feed 100 to 200 ppm of WATREET IC-1153 B circulate water until Iron and Calcium concentrations in the recirculating water are reduced to the required level. The blow down may be increased for removal of dispersant and soluble foulants.

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Doc No :	PD-WT-IC305
Rev No :	0
Product :	WATREET
Product Code :	WT-IC305

PRODUCT DATA SHEET

1	INFORMATION WATREET C 305-On-Line Deposit Remover for Open Recirculating Cooling Water Systems
2	DESCRIPTION WATREET C 305 is a blend of specific chelating agents designed for removal of Iron, Calcium and Magnesium based deposits from cooling water systems. WATREET C 305 removes various types of deposits from cooling water systems as soluble species, while the system remains under normal operating conditions and no shutdown is required. Deposits are softened and solublized as WATREET C 305 penetrates the deposits and enhances the action of cooling water dispersants to slough off remaining deposits which would be removed during a blow down. WATREET C 305 is effective at the normal pH operating range of open recirculating cooling water systems. The product works best along with WATREET C 315, a cooling system cleaner.
3	SALIENT FEATURES Removes deposits - On-Line No need for shut down. No corrosive or harmful vapours are produced. Non corrosive cleaner Effective over a broad pH range. Ready to use liquid.
4	ANALYTICAL DATA Appearance : Pale yellow liquid pH : Acidic Density : 1.0 to 1.2
5	HANDLING INSTRUCTIONS Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	RECOMMENDED DOSAGE For on line cleaning of moderately fouled systems feed 100 to 500 ppm of WATREET C-305 until Iron and Calcium concentrations in the recirculating water are reduced to the required level. The blow down may be increased for removal of dispersed and soluble foulants.

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Doc No :	PD-WT-IC315
Rev No :	0
Product :	WATREET
Product Code :	WT-IC315

PRODUCT DATA SHEET

1	<u>INFORMATION</u> WATREET C – 315 - On-Line Cleaner for Open Recirculating Cooling Water Systems
2	<u>DESCRIPTION</u> WATREET C-315 is a blend of organic dispersant which aids removal of various deposits from open recirculating cooling systems by dislodging and solubilising deposit building blocks. Deposits are softened and solubilized as WATREET C- 315 aids and supports the on-line deposit remover WATREET C-315 to slough off the deposits. WATREET C – 315 is effective at the normal pH range of open recirculating cooling system.
3	<u>SALIENT FEATURES</u> Aids to remove deposits on line Non corrosive One step programme Ready to use liquid
4	<u>ANALYTICAL DATA</u> Appearance : Colour to pale yellow liquid pH : 8 to 10 Density : 1.1 to 1.2
5	<u>HANDLING INSTRUCTIONS</u> Keep the container away from direct heat & sunlight. Keep the container closed when not in use. The product should not be swallowed and prolonged contact with the skin should be avoided. Should it come in contact with the eyes, flush with clean, cold water and get medical attention.
6	<u>RECOMMENDED DOSAGE</u> For on line cleaning of moderately fouled systems feed 50 to 250 ppm of WATREET C-315 until Iron and Calcium concentrations in the recirculating water are reduced to the required level. The blow down may be increased for removal of dispersant and soluble foulants.