



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 :	MSDS-WT-RD 300
Rev No :	0
Product :	WATREET
Product Code :	WT-RD 300

MATERIAL SAFETY DATA SHEET

1	<u>PRODUCT IDENTIFICATION AND INFORMATION</u>	
	Chemical Name : WATREET RD 300 Proprietary formulation : Reverse Osmosis Antiscalant (R.O.Antiscalant/Scale inhibitor)	
2	<u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u>	
	Product comprises of the following ingredients An aqueous solution of	
	Name	CAS No
	Co polymer of acrylic acid	LD50 Oral(Rat) > 5000 mg/kg
	Acryl amido methyl propane sulphonic acid	15214 –89 -8 1410 mg/kg
	Acrylic terpolymer	proprietary > 5000 mg/kg
	Polymaleic acid	26099– 09 -2 15000 mg/kg
	Maleic acid	110-16-7 15000 mg/kg
3	<u>FIRE AND EXPLOSION DATA</u>	
	Flammable Limits in air,%by Volume :	N.A
	Flash Point :	None
	Extinguishing Media :	Water, Foam
4	<u>FIRST AID MEASURES</u>	
	Ingestion (Swallowing):	May cause nausea and vomiting / Dilute by drinking copious amounts of water and obtain medical attention
	Skin Contact :	Slightly irritating to skin / Wash affected skin with soap / water and obtain medical attention
	Eye Contact :	Irritating to eyes / wash eyes with large amount of water for atleast 15 minutes and obtain medical attention
	Inhalation :	Vapors may be irritating to nose throat and respiratory tract producing symptoms of nausea in poor ventilated area. Remove subject to fresh air obtain medical Attention
5	<u>FIRE FIGHTING MEASURES.</u>	
	Since product is not inflammable so no fire fighting measures are required.	
6	<u>REACTIVITY DATA</u>	
	Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.	
7	<u>HANDLING AND STORAGE</u>	
	Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.	
8	<u>SPILL OR LEAK PROCEDURES</u>	
	Soak up spills with absorbent material and scoop into drums. Follow all local, state and federal regulations for disposal. Do not dispose into lakes and streams. The floor may be slippery use caution to avoid falls.	

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MATERIAL SAFETY DATA SHEET

9	<u>SPECIAL PROTECTION INFORMATION</u> Respiratory protection : Maintain good ventilation otherwise use self- contained breathing apparatus. Ventilation protect : Local exhaust / mechanical (General) Protective Gloves : Yes Eye Protection : Safety Goggles Other Protection : Long Sleeve Shirt, long pants, Boots and hat. Hygienic Practices : Follow normal hygienic practices for handling chemicals.
10	<u>PHYSICAL & CHEMICAL PROPERTIES</u> Refer '2' Composition / information on ingredients
11	<u>TOXICOLOGICAL INFORMATION</u> Value of LD 50 Oral Rat : 1410 mg/Kg. Do not take internally.
12	<u>ECOLOGICAL INFORMATION</u> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<u>DISPOSAL CONSIDERATIONS</u> Consult state and local regulations regarding the proper disposal of this material.
14	<u>TRANSPORT INFORMATION</u> Since product is non hazardous, non toxic, non inflammable. No unusual precaution is required.
15	<u>REGULATORY INFORMATION</u> Consult state and local regulatory authorities.
16	<u>OTHER INFORMATION</u> The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations. Rakiro Biotech assumes no responsibility for injury to customers or third persons caused by the material, if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, since actual use by others is beyond our control, no guarantee expressed or implied is made by Rakiro Biotech as to effect of such use, the results to be obtained, others safety and toxicity of the products, nor Rakiro Biotech assumes any liability arises out of use/misuse by others of the product referred to herein. Information proved herein is provided by Rakiro Biotech solely for customers' assistance in implying with the occupational Safety & Health Act Regulations there under. Any other use is prohibited.



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Doc No :	MSDS-WT-RD 301
Rev No :	0
Product :	WATREET
Product Code :	WT-RD 301

MATERIAL SAFETY DATA SHEET

1	<u>PRODUCT IDENTIFICATION AND INFORMATION</u>	
	Chemical Name : WATREET RD 301 Proprietary formulation : Reverse Osmosis Antiscalant (R.O.Antiscalant Alkaline)	
2	<u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u>	
	Product comprises of the following ingredients An aqueous solution of	
	Name	CAS No
	Co polymer of acrylic acid	LD50 Oral(Rat) > 5000 mg/kg
	Acryl amido methyl propane sulphonic acid	15214 -89 -8 1410 mg/kg
	Acrylic terpolymer	proprietary > 5000 mg/kg
	Polymaleic acid	26099- 09 -2 15000 mg/kg
	Maleic acid	110-16-7 15000 mg/kg
3	<u>FIRE AND EXPLOSION DATA</u>	
	Flammable Limits in air,%by Volume :	N.A
	Flash Point :	None
	Extinguishing Media :	Water, Foam
4	<u>FIRST AID MEASURES</u>	
	Ingestion (Swallowing):	May cause nausea and vomiting / Dilute by drinking copious amounts of water and obtain medical attention
	Skin Contact :	Slightly irritating to skin / Wash affected skin with soap / water and obtain medical attention
	Eye Contact :	Irritating to eyes / wash eyes with large amount of water foratleast 15 minutes and obtain medical attention
	Inhalation :	Vapors may be irritating to nose throat and respiratory tract producing symptoms of nausea in poor ventilated area. Remove subject to fresh air obtain medical Attention
5	<u>FIRE FIGHTING MEASURES.</u>	
	Since product is not inflammable so no fire fighting measures are required.	
6	<u>REACTIVITY DATA</u>	
	Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.	
7	<u>HANDLING AND STORAGE</u>	
	Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.	
8	<u>SPILL OR LEAK PROCEDURES</u>	
	Soak up spills with absorbent material and scoop into drums. Follow all local, state and federal regulations for disposal. Do not dispose into lakes and streams. The floor may be slippery use caution to avoid falls.	

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Doc No :	MSDS-WT-RD 301
Rev No :	0
Product :	WATREET
Product Code :	WT-RD 301

MATERIAL SAFETY DATA SHEET

9	<u>SPECIAL PROTECTION INFORMATION</u> Respiratory protection : Maintain good ventilation otherwise use self- contained breathing apparatus. Ventilation protect : Local exhaust / mechanical (General) Protective Gloves : Yes Eye Protection : Safety Goggles Other Protection : Long Sleeve Shirt, long pants, Boots and hat. Hygienic Practices : Follow normal hygienic practices for handling chemicals.
10	<u>PHYSICAL & CHEMICAL PROPERTIES</u> Refer '2' Composition / information on ingredients
11	<u>TOXICOLOGICAL INFORMATION</u> Value of LD 50 Oral Rat : 1410 mg/Kg. Do not take internally.
12	<u>ECOLOGICAL INFORMATION</u> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<u>DISPOSAL CONSIDERATIONS</u> Consult state and local regulations regarding the proper disposal of this material.
14	<u>TRANSPORT INFORMATION</u> Since product is non hazardous, non toxic, non inflammable. No unusual precaution is required.
15	<u>REGULATORY INFORMATION</u> Consult state and local regulatory authorities.
16	<u>OTHER INFORMATION</u> The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations. Rakiro Biotech assumes no responsibility for injury to customers or third persons caused by the material, if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, since actual use by others is beyond our control, no guarantee expressed or implied is made by Rakiro Biotech as to effect of such use, the results to be obtained, others safety and toxicity of the products, nor Rakiro Biotech assumes any liability arises out of use/misuse by others of the product referred to herein. Information proved herein is provided by Rakiro Biotech solely for customers' assistance in implying with the occupational Safety & Health Act Regulations there under. Any other use is prohibited.



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Doc No :	MSDS-WT-RD 304
Rev No :	0
Product :	WATREET
Product Code :	WT-RD 301

MATERIAL SAFETY DATA SHEET

1	<u>PRODUCT IDENTIFICATION AND INFORMATION</u>	
	Chemical Name : WATREET RD 304 Proprietary formulation : Reverse Osmosis Antiscalant (R.O.Antiscalant Alkaline)	
2	<u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u>	
	Product comprises of the following ingredients An aqueous solution of	
	Name	CAS No
	Co polymer of acrylic acid	LD50 Oral(Rat) > 5000 mg/kg
	Acryl amido methyl propane sulphonic acid	15214 -89 -8 1410 mg/kg
	Acrylic terpolymer	proprietary > 5000 mg/kg
	Polymaleic acid	26099- 09 -2 15000 mg/kg
	Maleic acid	110-16-7 15000 mg/kg
3	<u>FIRE AND EXPLOSION DATA</u>	
	Flammable Limits in air,%by Volume :	N.A
	Flash Point :	None
	Extinguishing Media :	Water, Foam
4	<u>FIRST AID MEASURES</u>	
	Ingestion (Swallowing):	May cause nausea and vomiting / Dilute by drinking copious amounts of water and obtain medical attention
	Skin Contact :	Slightly irritating to skin / Wash affected skin with soap / water and obtain medical attention
	Eye Contact :	Irritating to eyes / wash eyes with large amount of water foratleast 15 minutes and obtain medical attention
	Inhalation :	Vapors may be irritating to nose throat and respiratory tract producing symptoms of nausea in poor ventilated area. Remove subject to fresh air obtain medical Attention
5	<u>FIRE FIGHTING MEASURES.</u>	
	Since product is not inflammable so no fire fighting measures are required.	
6	<u>REACTIVITY DATA</u>	
	Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.	
7	<u>HANDLING AND STORAGE</u>	
	Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.	
8	<u>SPILL OR LEAK PROCEDURES</u>	
	Soak up spills with absorbent material and scoop into drums. Follow all local, state and federal regulations for disposal. Do not dispose into lakes and streams. The floor may be slippery use caution to avoid falls.	

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Doc No :	MSDS-WT-RD 304
Rev No :	0
Product :	WATREET
Product Code :	WT-RD 301

MATERIAL SAFETY DATA SHEET

9	<u>SPECIAL PROTECTION INFORMATION</u> Respiratory protection : Maintain good ventilation otherwise use self- contained breathing apparatus. Ventilation protect : Local exhaust / mechanical (General) Protective Gloves : Yes Eye Protection : Safety Goggles Other Protection : Long Sleeve Shirt, long pants, Boots and hat. Hygienic Practices : Follow normal hygienic practices for handling chemicals.
10	<u>PHYSICAL & CHEMICAL PROPERTIES</u> Refer '2' Composition / information on ingredients
11	<u>TOXICOLOGICAL INFORMATION</u> Value of LD 50 Oral Rat : 1410 mg/Kg. Do not take internally.
12	<u>ECOLOGICAL INFORMATION</u> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<u>DISPOSAL CONSIDERATIONS</u> Consult state and local regulations regarding the proper disposal of this material.
14	<u>TRANSPORT INFORMATION</u> Since product is non hazardous, non toxic, non inflammable. No unusual precaution is required.
15	<u>REGULATORY INFORMATION</u> Consult state and local regulatory authorities.
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Doc No :	MSDS-WT-RD 310
Rev No :	0
Product :	WATREET
Product Code :	WT-RD 310

MATERIAL SAFETY DATA SHEET

1	<u>PRODUCT IDENTIFICATION AND INFORMATION</u>	
	Chemical Name : WATREET RD 310 Proprietary formulation : Reverse Osmosis Antiscalant (R.O.Antiscalant/Scale inhibitor)	
2	<u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u>	
	Product comprises of the following ingredients An aqueous solution of	
	Name	CAS No
	Acrylic maleic copolymer	29132-58-9
	Sodium salt of polyacrylic acid	9003-04 -7
		LD50 Oral(Rat)
		40 gm/Kg
3	<u>FIRE AND EXPLOSION DATA</u>	
	Flammable Limits in air,%by Volume :	N.A
	Flash Point :	None
	Extinguishing Media :	Water, Foam
4	<u>FIRST AID MEASURES</u>	
	Ingestion (Swallowing):	May cause nausea and vomiting / Dilute by drinking copious amounts of water and obtain medical attention
	Skin Contact :	Slightly irritating to skin / Wash affected skin with soap / water and obtain medical attention
	Eye Contact :	Irritating to eyes / wash eyes with large amount of water for atleast 15 minutes and obtain medical attention
	Inhalation :	Vapors may be irritating to nose throat and respiratory tract producing symptoms of nausea in poor ventilated area. Remove subject to fresh air obtain medical Attention
5	<u>FIRE FIGHTING MEASURES.</u>	
	Since product is not inflammable so no fire fighting measures are required.	
6	<u>REACTIVITY DATA</u>	
	Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.	
7	<u>HANDLING AND STORAGE</u>	
	Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.	
8	<u>SPILL OR LEAK PROCEDURES</u>	
	Soak up spills with absorbent material and scoop into drums. Follow all local, state and federal regulations for disposal. Do not dispose into lakes and streams. The floor may be slippery use caution to avoid falls.	

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Doc No :	MSDS-WT-RD 310
Rev No :	0
Product :	WATREET
Product Code :	WT-RD 310

MATERIAL SAFETY DATA SHEET

9	<u>SPECIAL PROTECTION INFORMATION</u> Respiratory protection : Maintain good ventilation otherwise use self- contained breathing apparatus. Ventilation protect : Local exhaust / mechanical (General) Protective Gloves : Yes Eye Protection : Safety Goggles Other Protection : Long Sleeve Shirt, long pants, Boots and hat. Hygienic Practices : Follow normal hygienic practices for handling chemicals.
10	<u>PHYSICAL & CHEMICAL PROPERTIES</u> Refer '2' Composition / information on ingredients
11	<u>TOXICOLOGICAL INFORMATION</u> Since the product is non toxic at used levels,no tests have been carried out.
12	<u>ECOLOGICAL INFORMATION</u> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<u>DISPOSAL CONSIDERATIONS</u> Consult state and local regulations regarding the proper disposal of this material.
14	<u>TRANSPORT INFORMATION</u> Since product is non hazardous, non toxic, non inflammable. No unusual precaution is required.
15	<u>REGULATORY INFORMATION</u> Consult state and local regulatory authorities.
16	<u>OTHER INFORMATION</u> The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations. Rakiro Biotech assumes no responsibility for injury to customers or third persons caused by the material, if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, since actual use by others is beyond our control, no guarantee expressed or implied is made by Rakiro Biotech as to effect of such use, the results to be obtained, others safety and toxicity of the products, nor Rakiro Biotech assumes any liability arises out of use/misuse by others of the product referred to herein. Information proved herein is provided by Rakiro Biotech solely for customers' assistance in implying with the occupational Safety & Health Act Regulations there under. Any other use is prohibited.

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Doc No :	MSDS-WT-RD 320
Rev No :	0
Product :	WATREET
Product Code :	WT-RD 320

MATERIAL SAFETY DATA SHEET

1	<u>PRODUCT IDENTIFICATION AND INFORMATION</u> Chemical Name : WATREET RD 320 Proprietary formulation : Reverse Osmosis Antiscalant (R.O.Antiscalant/Scale inhibitor)																		
2	<u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u> Product comprises of the following ingredients An aqueous solution of <table border="1"><thead><tr><th>Name</th><th>CAS No</th><th>LD50 Oral(Rat)</th></tr></thead><tbody><tr><td>Co polymer of acrylic acid</td><td></td><td>> 5000 mg/kg</td></tr><tr><td>Acryl amido methyl propane sulphonic acid</td><td>15214 -89 -8</td><td>1410 mg/kg</td></tr><tr><td>Acrylic terpolymer</td><td>proprietary</td><td>> 5000 mg/kg</td></tr><tr><td>Polymaleic acid</td><td>26099- 09 -2</td><td>15000 mg/kg</td></tr><tr><td>Maleic acid</td><td>110-16-7</td><td>15000 mg/kg</td></tr></tbody></table>	Name	CAS No	LD50 Oral(Rat)	Co polymer of acrylic acid		> 5000 mg/kg	Acryl amido methyl propane sulphonic acid	15214 -89 -8	1410 mg/kg	Acrylic terpolymer	proprietary	> 5000 mg/kg	Polymaleic acid	26099- 09 -2	15000 mg/kg	Maleic acid	110-16-7	15000 mg/kg
Name	CAS No	LD50 Oral(Rat)																	
Co polymer of acrylic acid		> 5000 mg/kg																	
Acryl amido methyl propane sulphonic acid	15214 -89 -8	1410 mg/kg																	
Acrylic terpolymer	proprietary	> 5000 mg/kg																	
Polymaleic acid	26099- 09 -2	15000 mg/kg																	
Maleic acid	110-16-7	15000 mg/kg																	
3	<u>FIRE AND EXPLOSION DATA</u> Flammable Limits in air,%by Volume : N.A Flash Point : None Extinguishing Media : Water, Foam																		
4	<u>FIRST AID MEASURES</u> Ingestion (Swallowing): May cause nausea and vomiting / Dilute by drinking copious amounts of water and obtain medical attention Skin Contact : Slightly irritating to skin / Wash affected skin with soap / water and obtain medical attention Eye Contact : Irritating to eyes / wash eyes with large amount of water foratleast 15 minutes and obtain medical attention Inhalation : Vapors may be irritating to nose throat and respiratory tract producing symptoms of nausea in poor ventilated area. Remove subject to fresh air obtain medical Attention																		
5	<u>FIRE FIGHTING MEASURES.</u> Since product is not inflammable so no fire fighting measures are required.																		
6	<u>REACTIVITY DATA</u> Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.																		
7	<u>HANDLING AND STORAGE</u> Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.																		
8	<u>SPILL OR LEAK PROCEDURES</u> Soak up spills with absorbent material and scoop into drums. Follow all local, state and federal regulations for disposal. Do not dispose into lakes and streams. The floor may be slippery use caution to avoid falls.																		



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Doc No :	MSDS-WT-RD 320
Rev No :	0
Product :	WATREET
Product Code :	WT-RD 320

MATERIAL SAFETY DATA SHEET

9	<p><u>SPECIAL PROTECTION INFORMATION</u></p> <p>Respiratory protection : Maintain good ventilation otherwise use self- contained breathing apparatus.</p> <p>Ventilation protect : Local exhaust / mechanical (General)</p> <p>Protective Gloves : Yes</p> <p>Eye Protection : Safety Goggles</p> <p>Other Protection : Long Sleeve Shirt, long pants, Boots and hat.</p> <p>Hygienic Practices : Follow normal hygienic practices for handling chemicals.</p>												
10	<p><u>PHYSICAL & CHEMICAL PROPERTIES</u></p> <p>Refer '2' Composition / information on ingredients</p>												
11	<p><u>TOXICOLOGICAL INFORMATION</u></p> <p>Value of LD 50 Oral Rat : 1410 mg/Kg. Do not take internally.</p>												
12	<p><u>ECOLOGICAL INFORMATION</u></p> <p>AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.</p>												
13	<p><u>DISPOSAL CONSIDERATIONS</u></p> <p>Consult state and local regulations regarding the proper disposal of this material.</p>												
14	<p><u>TRANSPORT INFORMATION</u></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">DOT Shipping Name</td> <td>Corrosive liquid , acidic ,organic ,n.o.s. (phosphonic acid)</td> </tr> <tr> <td>DOT Hazard Class</td> <td align="center">8</td> </tr> <tr> <td>DOT ID Number</td> <td align="center">UN3265</td> </tr> <tr> <td>Packing Group</td> <td align="center">III</td> </tr> <tr> <td>DOT Label</td> <td align="center">Corrosive</td> </tr> <tr> <td>IMDG No.</td> <td align="center">8147-1</td> </tr> </table>	DOT Shipping Name	Corrosive liquid , acidic ,organic ,n.o.s. (phosphonic acid)	DOT Hazard Class	8	DOT ID Number	UN3265	Packing Group	III	DOT Label	Corrosive	IMDG No.	8147-1
DOT Shipping Name	Corrosive liquid , acidic ,organic ,n.o.s. (phosphonic acid)												
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Rev No :	0
Product :	WATREET
Product Code :	WT-RD 310

MATERIAL SAFETY DATA SHEET

1	<u>PRODUCT IDENTIFICATION AND INFORMATION</u>	
	Chemical Name : WATREET RD 340 Proprietary formulation : Reverse Osmosis Antiscalant (R.O.Antiscalant/Scale inhibitor)	
2	<u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u>	
	Product comprises of the following ingredients An aqueous solution of	
	Name	CAS No
	Co polymer of acrylic acid	proprietary
	Acryl amido methyl propane sulphonic acid	proprietary
	Acrylic terpolymer	proprietary
	Polymaleic acid	26099- 09 -2
	Hydroxy ethylene diphosphonic acid	2809-21-04
	LD50 Oral(Rat)	
	> 5000 mg/kg	
	1410 mg/kg	
	> 5000 mg/kg	
	15000 mg/kg	
	2400 mg/kg	
3	<u>FIRE AND EXPLOSION DATA</u>	
	Flammable Limits in air,%by Volume :	N.A
	Flash Point :	None
	Extinguishing Media :	Water, Foam
4	<u>FIRST AID MEASURES</u>	
	Ingestion (Swallowing):	May cause nausea and vomiting / Dilute by drinking copious amounts of water and obtain medical attention
	Skin Contact :	Slightly irritating to skin / Wash affected skin with soap / water and obtain medical attention
	Eye Contact :	Irritating to eyes / wash eyes with large amount of water foratleast 15 minutes and obtain medical attention
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5	<u>FIRE FIGHTING MEASURES.</u>	
	Since product is not inflammable so no fire fighting measures are required.	
6	<u>REACTIVITY DATA</u>	
	Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.	
7	<u>HANDLING AND STORAGE</u>	
	Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.	
8	<u>SPILL OR LEAK PROCEDURES</u>	
	Soak up spills with absorbent material and scoop into drums. Follow all local, state and federal regulations for disposal. Do not dispose into lakes and streams. The floor may be slippery use caution to avoid falls.	

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Product Code :	WT-RD 310

MATERIAL SAFETY DATA SHEET

9	<u>SPECIAL PROTECTION INFORMATION</u> Respiratory protection : Maintain good ventilation otherwise use self- contained breathing apparatus. Ventilation protect : Local exhaust / mechanical (General) Protective Gloves : Yes Eye Protection : Safety Goggles Other Protection : Long Sleeve Shirt, long pants, Boots and hat. Hygienic Practices : Follow normal hygienic practices for handling chemicals.
10	<u>PHYSICAL & CHEMICAL PROPERTIES</u> Refer '2' Composition / information on ingredients
11	<u>TOXICOLOGICAL INFORMATION</u> Value of LD 50 Oral Rat : 1410 mg/Kg. to > 5000 mg/kg. Do not take internally.
12	<u>ECOLOGICAL INFORMATION</u> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<u>DISPOSAL CONSIDERATIONS</u> Consult state and local regulations regarding the proper disposal of this material.
14	<u>TRANSPORT INFORMATION</u> DOT Shipping Name Corrosive liquid , acidic ,organic ,n.o.s. (phosphonic acid) DOT Hazard Class 8 DOT ID Number UN3265 Packing Group III DOT Label Corrosive IMDG No. 8147-1
15	<u>REGULATORY INFORMATION</u> Consult state and local regulatory authorities.
16	<u>OTHER INFORMATION</u> The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations. Rakiro Biotech assumes no responsibility for injury to customers or third persons caused by the material, if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, since actual use by others is beyond our control, no guarantee expressed or implied is made by Rakiro Biotech as to effect of such use, the results to be obtained, others safety and toxicity of the products, nor Rakiro Biotech assumes any liability arises out of use/misuse by others of the product referred to herein. Information proved herein is provided by Rakiro Biotech solely for customers' assistance in implying with the occupational Safety & Health Act Regulations there under. Any other use is prohibited.



RAKIRO BIOTECH SYSTEMS PVT LTD

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Doc No :	MSDS-WT-ROC 1600
Rev No :	0
Product :	WATREET
Product Code :	ROC 1600

MATERIAL SAFETY DATA SHEET

1	<u>PRODUCT IDENTIFICATION AND INFORMATION</u>	
	Chemical Name : WATREET ROC 1600 Proprietary formulation : R.O. Membrane cleaner	
2	<u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u>	
	Product comprises of the following ingredients An aqueous solution of	
	Name	CAS No
	Nonyl Phenol Ethoxylate	9016-45-9
	Citric acid	77-92-9
	Copolymer of Acrylic acid AMPS	3 gm/kg
		5.0 g/kg
3	<u>FIRE AND EXPLOSION DATA</u>	
	Flammable Limits in air,%by Volume :	N.A
	Flash Point :	None
	Extinguishing Media :	Water, Foam
4	<u>FIRST AID MEASURES</u>	
	Ingestion (Swallowing):	May cause nausea and vomiting / Dilute by drinking copious amounts of water and obtain medical attention
	Skin Contact :	Slightly irritating to skin / Wash affected skin with soap / water and obtain medical attention
	Eye Contact :	Irritating to eyes / wash eyes with large amount of water for atleast 15 minutes and obtain medical attention
	Inhalation :	Vapors may be irritating to nose throat and respiratory tract producing symptoms of nausea in poor ventilated area. Remove subject to fresh air obtain medical Attention
5	<u>FIRE FIGHTING MEASURES.</u>	
	Since product is not inflammable so no fire fighting measures are required.	
6	<u>REACTIVITY DATA</u>	
	Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.	
7	<u>HANDLING AND STORAGE</u>	
	Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.	
8	<u>SPILL OR LEAK PROCEDURES</u>	
	Soak up spills with absorbent material and scoop into drums. Follow all local, state and federal regulations for disposal. Do not dispose into lakes and streams. The floor may be slippery use caution to avoid falls.	

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Doc No :	MSDS-WT-ROC 1600
Rev No :	0
Product :	WATREET
Product Code :	ROC 1600

MATERIAL SAFETY DATA SHEET

9	<u>SPECIAL PROTECTION INFORMATION</u> Respiratory protection : Maintain good ventilation otherwise use self- contained breathing apparatus. Ventilation protect : Local exhaust / mechanical (General) Protective Gloves : Yes Eye Protection : Safety Goggles Other Protection : Long Sleeve Shirt, long pants, Boots and hat. Hygienic Practices : Follow normal hygienic practices for handling chemicals.
10	<u>PHYSICAL & CHEMICAL PROPERTIES</u> Refer '2' Composition / information on ingredients
11	<u>TOXICOLOGICAL INFORMATION</u> No tests have been carried out. Since the product is no toxic at used level, Do not take internally
12	<u>ECOLOGICAL INFORMATION</u> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<u>DISPOSAL CONSIDERATIONS</u> Consult state and local regulations regarding the proper disposal of this material.
14	<u>TRANSPORT INFORMATION</u> UN 3082 Miscellaneous Dangerous goods Class 9 Packing group III Environmentally hazardous substance.
15	<u>REGULATORY INFORMATION</u> Consult state and local regulatory authorities.
16	<u>OTHER INFORMATION</u> The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations. Rakiro Biotech assumes no responsibility for injury to customers or third persons caused by the material, if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, since actual use by others is beyond our control, no guarantee expressed or implied is made by Rakiro Biotech as to effect of such use, the results to be obtained, others safety and toxicity of the products, nor Rakiro Biotech assumes any liability arises out of use/misuse by others of the product referred to herein. Information proved herein is provided by Rakiro Biotech solely for customers' assistance in implying with the occupational Safety & Health Act Regulations there under. Any other use is prohibited.

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Doc No :	MSDS-WT-ROC 1800
Rev No :	0
Product :	WATREET
Product Code :	ROC 1800

MATERIAL SAFETY DATA SHEET**1 PRODUCT IDENTIFICATION AND INFORMATION**

Chemical Name : WATREET ROC 1800
Proprietary formulation : R.O. Membrane cleaner

2 INFORMATION ON INGREDIENTS AND TOXICITY DATA

Product comprises of the following ingredients
An aqueous solution of

Name	CAS No	LD50 Oral(Rat)
Nonyl Phenol Ethoxylate	9016-45-9	
EDTA Tetrasodium salt	10378-23-1	> 2000 mg/Kg
Hydroxy ethylene diphosphonic Acid	2809-21-4	2.6 g/kg
Copolymer of Acrylic acid AMPS		5.0 g/kg

3 FIRE AND EXPLOSION DATA

Flammable Limits in air,%by Volume : N.A
Flash Point : None
Extinguishing Media : Water, Foam

4 FIRST AID MEASURES

Ingestion (Swallowing): May cause nausea and vomiting / Dilute by drinking copious amounts of water and obtain medical attention
Skin Contact : Slightly irritating to skin / Wash affected skin with soap / water and obtain medical attention
Eye Contact : Irritating to eyes / wash eyes with large amount of water foratleast 15 minutes and obtain medical attention
Inhalation : Vapors may be irritating to nose throat and respiratory tract producing symptoms of nausea in poor ventilated area. Remove subject to fresh air obtain medical Attention

5 FIRE FIGHTING MEASURES.

Since product is not inflammable so no fire fighting measures are required.

6 REACTIVITY DATA

Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.

7 HANDLING AND STORAGE

Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.

8 SPILL OR LEAK PROCEDURES

Soak up spills with absorbent material and scoop into drums. Follow all local, state and federal regulations for disposal. Do not dispose into lakes and streams. The floor may be slippery use caution to avoid falls.

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Doc No :	MSDS-WT-ROC 1800
Rev No :	0
Product :	WATREET
Product Code :	ROC 1800

MATERIAL SAFETY DATA SHEET

9	<u>SPECIAL PROTECTION INFORMATION</u> Respiratory protection : Maintain good ventilation otherwise use self- contained breathing apparatus. Ventilation protect : Local exhaust / mechanical (General) Protective Gloves : Yes Eye Protection : Safety Goggles Other Protection : Long Sleeve Shirt, long pants, Boots and hat. Hygienic Practices : Follow normal hygienic practices for handling chemicals.
10	<u>PHYSICAL & CHEMICAL PROPERTIES</u> Refer '2' Composition / information on ingredients
11	<u>TOXICOLOGICAL INFORMATION</u> No tests have been carried out. Since the product is no toxic at used level, Do not take internally.
12	<u>ECOLOGICAL INFORMATION</u> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<u>DISPOSAL CONSIDERATIONS</u> Consult state and local regulations regarding the proper disposal of this material.
14	<u>TRANSPORT INFORMATION</u> UN 3082 Miscellaneous Dangerous goods Class 9 Packing group III Environmentally hazardous substance.
15	<u>REGULATORY INFORMATION</u> Consult state and local regulatory authorities.
16	<u>OTHER INFORMATION</u> The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations. Rakiro Biotech assumes no responsibility for injury to customers or third persons caused by the material, if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, since actual use by others is beyond our control, no guarantee expressed or implied is made by Rakiro Biotech as to effect of such use, the results to be obtained, others safety and toxicity of the products, nor Rakiro Biotech assumes any liability arises out of use/misuse by others of the product referred to herein. Information proved herein is provided by Rakiro Biotech solely for customers' assistance in implying with the occupational Safety & Health Act Regulations there under. Any other use is prohibited.

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Doc No :	MSDS-WT-ROB - 900
Rev No :	0
Product :	WATREET
Product Code :	ROB - 900

MATERIAL SAFETY DATA SHEET

1	<u>PRODUCT IDENTIFICATION AND INFORMATION</u> Chemical Name : WATREET ROB - 900 Proprietary formulation : Isothiazolin base non oxidizing Biocide for R.O. membrane biofouling cleaning									
2	<u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u> Product comprises of the following ingredients An aqueous solution of <table border="1"><thead><tr><th>Name</th><th>CAS No</th><th>LD50 Oral(Rat)</th></tr></thead><tbody><tr><td>5 Chloro-2 methyl- 4-isothiazolin-3-one</td><td>26172-55-4</td><td>3350 mg/Kg</td></tr><tr><td>2- methyl-4- isothiazolin – 3 – one</td><td>2682-20-4</td><td></td></tr></tbody></table>	Name	CAS No	LD50 Oral(Rat)	5 Chloro-2 methyl- 4-isothiazolin-3-one	26172-55-4	3350 mg/Kg	2- methyl-4- isothiazolin – 3 – one	2682-20-4	
Name	CAS No	LD50 Oral(Rat)								
5 Chloro-2 methyl- 4-isothiazolin-3-one	26172-55-4	3350 mg/Kg								
2- methyl-4- isothiazolin – 3 – one	2682-20-4									
3	<u>FIRE AND EXPLOSION DATA</u> Flammable Limits in air,%by Volume : N.A Flash Point : None Extinguishing Media : Water, Foam									
4	<u>FIRST AID MEASURES</u> Ingestion (Swallowing): May cause nausea and vomiting / Dilute by drinking copious amounts of water and obtain medical attention Skin Contact : Slightly irritating to skin / Wash affected skin with soap / water and obtain medical attention Eye Contact : Irritating to eyes / wash eyes with large amount of water for atleast 15 minutes and obtain medical attention Inhalation : Vapors may be irritating to nose throat and respiratory tract producing symptoms of nausea in poor ventilated area. Remove subject to fresh air obtain medical Attention									
5	<u>FIRE FIGHTING MEASURES.</u> Since product is not inflammable so no fire fighting measures are required.									
6	<u>REACTIVITY DATA</u> Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.									
7	<u>HANDLING AND STORAGE</u> Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.									
8	<u>SPILL OR LEAK PROCEDURES</u> Soak up spills with absorbent material and scoop into drums. Follow all local, state and federal regulations for disposal. Do not dispose into lakes and streams. The floor may be slippery use caution to avoid falls.									

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Doc No :	MSDS-WT-ROB - 900
Rev No :	0
Product :	WATREET
Product Code :	ROB - 900

MATERIAL SAFETY DATA SHEET

9	<u>SPECIAL PROTECTION INFORMATION</u> Respiratory protection : Maintain good ventilation otherwise use self- contained breathing apparatus. Ventilation protect : Local exhaust / mechanical (General) Protective Gloves : Yes Eye Protection : Safety Goggles Other Protection : Long Sleeve Shirt, long pants, Boots and hat. Hygienic Practices : Follow normal hygienic practices for handling chemicals.
10	<u>PHYSICAL & CHEMICAL PROPERTIES</u> Refer '2' Composition / information on ingredients
11	<u>TOXICOLOGICAL INFORMATION</u> No tests have been carried out. Since the product is no toxic at used level, Do not take internally
12	<u>ECOLOGICAL INFORMATION</u> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<u>DISPOSAL CONSIDERATIONS</u> Consult state and local regulations regarding the proper disposal of this material.
14	<u>TRANSPORT INFORMATION</u> IMDG 1760 Hazard Class 08 corrosive Liquid Packaging Group II
15	<u>REGULATORY INFORMATION</u> Consult state and local regulatory authorities.
16	<u>OTHER INFORMATION</u> The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations. Rakiro Biotech assumes no responsibility for injury to customers or third persons caused by the material, if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, since actual use by others is beyond our control, no guarantee expressed or implied is made by Rakiro Biotech as to effect of such use, the results to be obtained, others safety and toxicity of the products, nor Rakiro Biotech assumes any liability arises out of use/misuse by others of the product referred to herein. Information proved herein is provided by Rakiro Biotech solely for customers' assistance in implying with the occupational Safety & Health Act Regulations there under. Any other use is prohibited.