



**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-1010
Rev No :	0
Product :	WATREET
Product Code :	1010

**MATERIAL SAFETY DATA SHEET**

**1 PRODUCT IDENTIFICATION AND INFORMATION**  
 Chemical Name : WATREET - 1010  
 Proprietary formulation : Multipurpose water treatment formulation. Scale corrosion Inhibitor.

**2 INFORMATION ON INGREDIENTS AND TOXICITY DATA**  
 Product comprises of the following ingredients  
 Aqueous solution of

Name	CAS No	LD50 Oral(Rat)
Caustic Soda	1310-73-2	4 .0 g/kg
Polymaleic Acid	26000-09-2	15.0 g/kg
Copolymer of Acrylic acid AMPS		5.0 g/kg
Sodium Lignosulphonate	8061-51-6	6 .0 g/kg
Tannic acid	1401-55-4	2260 mg/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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**MATERIAL SAFETY DATA SHEET**

9	<b><u>SPECIAL PROTECTION INFORMATION</u></b> 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	<b><u>PHYSICAL &amp; CHEMICAL PROPERTIES</u></b> Refer '2' Composition / information on ingredients
11	<b><u>TOXICOLOGICAL INFORMATION</u></b> No tests have been carried out. Since the product is no toxic at used level, Do not take internally.
12	<b><u>ECOLOGICAL INFORMATION</u></b> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<b><u>DISPOSAL CONSIDERATIONS</u></b> Consult state and local regulations regarding the proper disposal of this material.
14	<b><u>TRANSPORT INFORMATION</u></b> DOT Classification: class 8 Corrosive material Packing group II.
15	<b><u>REGULATORY INFORMATION</u></b> Consult state and local regulatory authorities.
16	<b><u>OTHER INFORMATION</u></b>  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-1020
Rev No :	0
Product :	WATREET
Product Code :	1020

**MATERIAL SAFETY DATA SHEET**

1	<b><u>PRODUCT IDENTIFICATION AND INFORMATION</u></b>  Chemical Name : WATREET - 1020 Proprietary formulation : Multipurpose water treatment formulation - Scale corrosion Inhibitor for Fire tube boiler.																					
2	<b><u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u></b>  Product comprises of the following ingredients 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>Caustic Soda</td><td>1310-73-2</td><td>4.0 g/kg</td></tr><tr><td>Polymaleic Acid</td><td>26000-09-2</td><td>15.0 g/kg</td></tr><tr><td>Copolymer of Acrylic acid AMPS</td><td></td><td>5.0 g/kg</td></tr><tr><td>Sodium Lignosulphonate</td><td>8061-51-6</td><td>6.0g/kg</td></tr><tr><td>Sodium bi sulphite</td><td>7631-90-5</td><td>2000 mg/kg</td></tr><tr><td>Tri sodium phosphate</td><td>7601-54-9</td><td>4150 mg/kg</td></tr></tbody></table>	Name	CAS No	LD50 Oral(Rat)	Caustic Soda	1310-73-2	4.0 g/kg	Polymaleic Acid	26000-09-2	15.0 g/kg	Copolymer of Acrylic acid AMPS		5.0 g/kg	Sodium Lignosulphonate	8061-51-6	6.0g/kg	Sodium bi sulphite	7631-90-5	2000 mg/kg	Tri sodium phosphate	7601-54-9	4150 mg/kg
Name	CAS No	LD50 Oral(Rat)																				
Caustic Soda	1310-73-2	4.0 g/kg																				
Polymaleic Acid	26000-09-2	15.0 g/kg																				
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Sodium bi sulphite	7631-90-5	2000 mg/kg																				
Tri sodium phosphate	7601-54-9	4150 mg/kg																				
3	<b><u>FIRE AND EXPLOSION DATA</u></b>  Flammable Limits in air,%by Volume : N.A Flash Point : None Extinguishing Media : Water, Foam																					
4	<b><u>FIRST AID MEASURES</u></b>  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	<b><u>FIRE FIGHTING MEASURES.</u></b>  _Since product is not inflammable so no fire fighting measures are required.																					
6	<b><u>REACTIVITY DATA</u></b>  Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.																					
7	<b><u>HANDLING AND STORAGE</u></b>  Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.																					
8	<b><u>SPILL OR LEAK PROCEDURES</u></b>  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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<b>Product :</b>	WATREET
<b>Product Code :</b>	1020

**MATERIAL SAFETY DATA SHEET**

9	<p><b><u>SPECIAL PROTECTION INFORMATION</u></b></p> <p>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.</p>
10	<p><b><u>PHYSICAL &amp; CHEMICAL PROPERTIES</u></b></p> <p>Refer '2' Composition / information on ingredients</p>
11	<p><b><u>TOXICOLOGICAL INFORMATION</u></b></p> <p>No tests have been carried out. Since the product is no toxic at used level,          Do not take internally.</p>
12	<p><b><u>ECOLOGICAL INFORMATION</u></b></p> <p>AQUATIC TOXICOLOGY - No Data Available.          BIODEGRADATION - No Data Available.</p>
13	<p><b><u>DISPOSAL CONSIDERATIONS</u></b></p> <p>Consult state and local regulations regarding the proper disposal of this material.</p>
14	<p><b><u>TRANSPORT INFORMATION</u></b></p> <p>DOT Classification: class 8 Corrosive material          Packing group II.</p>
15	<p><b><u>REGULATORY INFORMATION</u></b></p> <p>Consult state and local regulatory authorities.</p>
16	<p><b><u>OTHER INFORMATION</u></b></p> <p>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 &amp; Health Act Regulations there under. Any other use is prohibited.</p>



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<b>Doc No :</b>	MSDS-WT-2110
<b>Rev No :</b>	0
<b>Product :</b>	WATREET
<b>Product Code :</b>	2110

**MATERIAL SAFETY DATA SHEET**

1	<p><b><u>PRODUCT IDENTIFICATION AND INFORMATION</u></b></p> <p>Chemical Name : WATREET - 2110          Proprietary formulation : Water treatment dispersant formulation.Sludge conditioner for boiler water.</p>									
2	<p><b><u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u></b></p> <p>Product comprises of the following ingredients          Aqueous solution of Dilute poly acrylic acid sodium salt. Dilute solution of liqnosulphonate sodium salt.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 45%;">Name</th> <th style="width: 25%;">CAS No</th> <th style="width: 30%;">LD50 Oral(Rat)</th> </tr> </thead> <tbody> <tr> <td>Polyacrylic acid</td> <td>9003-04-7</td> <td>40 gm/kg</td> </tr> <tr> <td>Sodium Lignosulphonate</td> <td>8061-51-6</td> <td>6030 mg/kg</td> </tr> </tbody> </table>	Name	CAS No	LD50 Oral(Rat)	Polyacrylic acid	9003-04-7	40 gm/kg	Sodium Lignosulphonate	8061-51-6	6030 mg/kg
Name	CAS No	LD50 Oral(Rat)								
Polyacrylic acid	9003-04-7	40 gm/kg								
Sodium Lignosulphonate	8061-51-6	6030 mg/kg								
3	<p><b><u>FIRE AND EXPLOSION DATA</u></b></p> <p>Flammable Limits in air,%by Volume : N.A          Flash Point : None          Extinguishing Media : Water, Foam</p>									
4	<p><b><u>FIRST AID MEASURES</u></b></p> <p>Ingestion (Swallowing): May cause nausea and vomiting / Dilute by drinking copious amounts of water and obtain medical attention</p> <p>Skin Contact : Slightly irritating to skin / Wash affected skin with soap / water and obtain medical attention</p> <p>Eye Contact : Irritating to eyes / wash eyes with large amount of water foratleast 15 minutes and obtain medical attention</p> <p>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</p>									
5	<p><b><u>FIRE FIGHTING MEASURES.</u></b></p> <p>_Since product is not inflammable so no fire fighting measures are required.</p>									
6	<p><b><u>REACTIVITY DATA</u></b></p> <p>Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.</p>									
7	<p><b><u>HANDLING AND STORAGE</u></b></p> <p>Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.</p>									
8	<p><b><u>SPILL OR LEAK PROCEDURES</u></b></p> <p>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.</p>									

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Doc No :	MSDS-WT-2110
Rev No :	0
Product :	WATREET
Product Code :	2110

**MATERIAL SAFETY DATA SHEET**

9	<b><u>SPECIAL PROTECTION INFORMATION</u></b> 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	<b><u>PHYSICAL &amp; CHEMICAL PROPERTIES</u></b> Refer '2' Composition / information on ingredients
11	<b><u>TOXICOLOGICAL INFORMATION</u></b> Since the product is no toxic at used level, no tests have been carried out.
12	<b><u>ECOLOGICAL INFORMATION</u></b> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<b><u>DISPOSAL CONSIDERATIONS</u></b> Consult state and local regulations regarding the proper disposal of this material.
14	<b><u>TRANSPORT INFORMATION</u></b> Since product is non hazardous, non toxic, non inflammable. No unusual precautions is required.
15	<b><u>REGULATORY INFORMATION</u></b> Consult state and local regulatory authorities.
16	<b><u>OTHER INFORMATION</u></b> 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-1462
Rev No :	0
Product :	WATREET
Product Code :	1462

**MATERIAL SAFETY DATA SHEET**

1	<b><u>PRODUCT IDENTIFICATION AND INFORMATION</u></b> Chemical Name : WATREET - 1462 Proprietary formulation : Water treatment Alkalinity builder formulation.						
2	<b><u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u></b> Product comprises of the following ingredients <table border="1"><thead><tr><th>Name</th><th>CAS No</th><th>LD50 Oral(Rat)</th></tr></thead><tbody><tr><td>Sodium hydroxide solution.</td><td>1310-73-2</td><td>4090 g/kg</td></tr></tbody></table>	Name	CAS No	LD50 Oral(Rat)	Sodium hydroxide solution.	1310-73-2	4090 g/kg
Name	CAS No	LD50 Oral(Rat)					
Sodium hydroxide solution.	1310-73-2	4090 g/kg					
3	<b><u>FIRE AND EXPLOSION DATA</u></b> Flammable Limits in air,%by Volume : N.A Flash Point : None Extinguishing Media : Water, Foam						
4	<b><u>FIRST AID MEASURES</u></b> 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	<b><u>FIRE FIGHTING MEASURES.</u></b> _Since product is not inflammable so no fire fighting measures are required.						
6	<b><u>REACTIVITY DATA</u></b> Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.						
7	<b><u>HANDLING AND STORAGE</u></b> Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.						
8	<b><u>SPILL OR LEAK PROCEDURES</u></b> 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-1462
Rev No :	0
Product :	WATREET
Product Code :	1462

**MATERIAL SAFETY DATA SHEET**

9	<b><u>SPECIAL PROTECTION INFORMATION</u></b> 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	<b><u>PHYSICAL &amp; CHEMICAL PROPERTIES</u></b> Refer '2' Composition / information on ingredients
11	<b><u>TOXICOLOGICAL INFORMATION</u></b> No tests have been carried out. Since the product is no toxic at used level, Do not take internally.
12	<b><u>ECOLOGICAL INFORMATION</u></b> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<b><u>DISPOSAL CONSIDERATIONS</u></b> Consult state and local regulations regarding the proper disposal of this material.
14	<b><u>TRANSPORT INFORMATION</u></b> DOT Classification: class 8 Corrosive material UN 1823 packing group II
15	<b><u>REGULATORY INFORMATION</u></b> Consult state and local regulatory authorities.
16	<b><u>OTHER INFORMATION</u></b>  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-3010
Rev No :	0
Product :	WATREET
Product Code :	3010

**MATERIAL SAFETY DATA SHEET**

1	<b><u>PRODUCT IDENTIFICATION AND INFORMATION</u></b> Chemical Name : WATREET - 3010 Proprietary formulation : Water treatment formulation. Oxygen Scavenger						
2	<b><u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u></b> Product comprises of the following ingredients <table border="1"><thead><tr><th>Name</th><th>CAS No</th><th>LD50 Oral(Rat)</th></tr></thead><tbody><tr><td>Dilute Sodium Bisulphite.</td><td>7631-90-5</td><td>2000 mg/kg</td></tr></tbody></table>	Name	CAS No	LD50 Oral(Rat)	Dilute Sodium Bisulphite.	7631-90-5	2000 mg/kg
Name	CAS No	LD50 Oral(Rat)					
Dilute Sodium Bisulphite.	7631-90-5	2000 mg/kg					
3	<b><u>FIRE AND EXPLOSION DATA</u></b> Flammable Limits in air,%by Volume : N.A Flash Point : None Extinguishing Media : Water, Foam						
4	<b><u>FIRST AID MEASURES</u></b> 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	<b><u>FIRE FIGHTING MEASURES.</u></b> Since product is not inflammable so no fire fighting measures are required.						
6	<b><u>REACTIVITY DATA</u></b> Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.						
7	<b><u>HANDLING AND STORAGE</u></b> Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.						
8	<b><u>SPILL OR LEAK PROCEDURES</u></b> 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-3010
Rev No :	0
Product :	WATREET
Product Code :	3010

**MATERIAL SAFETY DATA SHEET**

9	<b><u>SPECIAL PROTECTION INFORMATION</u></b> 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	<b><u>PHYSICAL &amp; CHEMICAL PROPERTIES</u></b> Refer '2' Composition / information on ingredients
11	<b><u>TOXICOLOGICAL INFORMATION</u></b> .LD (50) Oral Rat 2000 mg/kg No tests have been carried out. Since the product is no toxic at used level, Do not take internally.
12	<b><u>ECOLOGICAL INFORMATION</u></b> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<b><u>DISPOSAL CONSIDERATIONS</u></b> Consult state and local regulations regarding the proper disposal of this material.
14	<b><u>TRANSPORT INFORMATION</u></b> Class-8: Corrosive material UN-3260 Packaging Group-III
15	<b><u>REGULATORY INFORMATION</u></b> Consult state and local regulatory authorities.
16	<b><u>OTHER INFORMATION</u></b> 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-3030
Rev No :	0
Product :	WATREET
Product Code :	3030

**MATERIAL SAFETY DATA SHEET**

1	<b><u>PRODUCT IDENTIFICATION AND INFORMATION</u></b>  Chemical Name : WATREET - 3030 Proprietary formulation : Oxygen Scavenger						
2	<b><u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u></b>  Product comprises of the following ingredients: Aqueous solution of Dilute Hydrazine Hydrate. <table border="1"><thead><tr><th>Name</th><th>CAS No</th><th>LD50 Oral(Rat)</th></tr></thead><tbody><tr><td>Hydrazine Hydrate</td><td>7803-57-8</td><td>129 mg/kg</td></tr></tbody></table>	Name	CAS No	LD50 Oral(Rat)	Hydrazine Hydrate	7803-57-8	129 mg/kg
Name	CAS No	LD50 Oral(Rat)					
Hydrazine Hydrate	7803-57-8	129 mg/kg					
3	<b><u>FIRE AND EXPLOSION DATA</u></b>  Flammable Limits in air,%by Volume : N.A Flash Point : None Extinguishing Media : Water, Foam						
4	<b><u>FIRST AID MEASURES</u></b>  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	<b><u>FIRE FIGHTING MEASURES.</u></b>  Since product is not inflammable so no fire fighting measures are required.						
6	<b><u>REACTIVITY DATA</u></b>  Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.						
7	<b><u>HANDLING AND STORAGE</u></b>  Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.						
8	<b><u>SPILL OR LEAK PROCEDURES</u></b>  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.						

**RAKIRO BIOTECH SYSTEMS PVT LTD**

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Doc No :	MSDS-WT-3030
Rev No :	0
Product :	WATREET
Product Code :	3030

**MATERIAL SAFETY DATA SHEET**

9	<b><u>SPECIAL PROTECTION INFORMATION</u></b> 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	<b><u>PHYSICAL &amp; CHEMICAL PROPERTIES</u></b> Refer '2' Composition / information on ingredients
11	<b><u>TOXICOLOGICAL INFORMATION</u></b> Since the product is no toxic at used level, no tests have been carried out
12	<b><u>ECOLOGICAL INFORMATION</u></b> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<b><u>DISPOSAL CONSIDERATIONS</u></b> Consult state and local regulations regarding the proper disposal of this material.
14	<b><u>TRANSPORT INFORMATION</u></b> UN 2030 Hazard Class 8 Packing Group II Corrosive liquid
15	<b><u>REGULATORY INFORMATION</u></b> Consult state and local regulatory authorities.
16	<b><u>OTHER INFORMATION</u></b> 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-R - 101
Rev No :	0
Product :	WATREET
Product Code :	R - 101

**MATERIAL SAFETY DATA SHEET**

1	<b><u>PRODUCT IDENTIFICATION AND INFORMATION</u></b> Chemical Name : WATREET R - 101 Proprietary formulation : Water treatment formulation. Dilute solution of neutralizing amine solution.						
2	<b><u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u></b> Product comprises of the following ingredients Aqueous solution of Dilute Cyclohexylamine <table border="1"><thead><tr><th>Name</th><th>CAS No</th><th>LD50 Oral(Rat)</th></tr></thead><tbody><tr><td>Cyclohexylamine</td><td>108-91-8</td><td>156 mg/kg</td></tr></tbody></table>	Name	CAS No	LD50 Oral(Rat)	Cyclohexylamine	108-91-8	156 mg/kg
Name	CAS No	LD50 Oral(Rat)					
Cyclohexylamine	108-91-8	156 mg/kg					
3	<b><u>FIRE AND EXPLOSION DATA</u></b> Flammable Limits in air,%by Volume : N.A Flash Point : None Extinguishing Media : Water, Foam						
4	<b><u>FIRST AID MEASURES</u></b> 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	<b><u>FIRE FIGHTING MEASURES.</u></b> Since product is not inflammable so no fire fighting measures are required.						
6	<b><u>REACTIVITY DATA</u></b> Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.						
7	<b><u>HANDLING AND STORAGE</u></b> Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.						
8	<b><u>SPILL OR LEAK PROCEDURES</u></b> 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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<b>Doc No :</b>	MSDS-WT-R - 101
<b>Rev No :</b>	0
<b>Product :</b>	WATREET
<b>Product Code :</b>	R - 101

**MATERIAL SAFETY DATA SHEET**

9	<b><u>SPECIAL PROTECTION INFORMATION</u></b> 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	<b><u>PHYSICAL &amp; CHEMICAL PROPERTIES</u></b> Refer '2' Composition / information on ingredients
11	<b><u>TOXICOLOGICAL INFORMATION</u></b> Since the product is no toxic at used level, no tests have been carried out.
12	<b><u>ECOLOGICAL INFORMATION</u></b> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<b><u>DISPOSAL CONSIDERATIONS</u></b> Consult state and local regulations regarding the proper disposal of this material.
14	<b><u>TRANSPORT INFORMATION</u></b> DOT Classification: Class 8 Corrosive liquid Identification: Corrosive liquid UN 2357 Packing Group II
15	<b><u>REGULATORY INFORMATION</u></b> Consult state and local regulatory authorities.
16	<b><u>OTHER INFORMATION</u></b> 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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<b>Doc No :</b>	MSDS-WT-4010
<b>Rev No :</b>	0
<b>Product :</b>	WATREET
<b>Product Code :</b>	4010

**MATERIAL SAFETY DATA SHEET**

1	<b><u>PRODUCT IDENTIFICATION AND INFORMATION</u></b>	
	Chemical Name : WATREET - 4010 Proprietary formulation : Water softening materials	
2	<b><u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u></b>	
	Product comprises of the following ingredients: Aqueous solution of Dilute Sodium Hexameta Phosphate.	
	<b>Name</b>	<b>CAS No</b>
	Sodium hexametaphosphate	68915-31-1
		<b>LD50 Oral(Rat)</b> 6200 mg/kg
3	<b><u>FIRE AND EXPLOSION DATA</u></b>	
	Flammable Limits in air,%by Volume :	N.A
	Flash Point :	None
	Extinguishing Media :	Water, Foam
4	<b><u>FIRST AID MEASURES</u></b>	
	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	<b><u>FIRE FIGHTING MEASURES.</u></b>	
	Since product is not inflammable so no fire fighting measures are required.	
6	<b><u>REACTIVITY DATA</u></b>	
	Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.	
7	<b><u>HANDLING AND STORAGE</u></b>	
	Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.	
8	<b><u>SPILL OR LEAK PROCEDURES</u></b>	
	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-4010
Rev No :	0
Product :	WATREET
Product Code :	4010

**MATERIAL SAFETY DATA SHEET**

9	<b><u>SPECIAL PROTECTION INFORMATION</u></b> 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	<b><u>PHYSICAL &amp; CHEMICAL PROPERTIES</u></b> Refer '2' Composition / information on ingredients
11	<b><u>TOXICOLOGICAL INFORMATION</u></b> Since the product is no toxic at used level, no tests have been carried out
12	<b><u>ECOLOGICAL INFORMATION</u></b> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<b><u>DISPOSAL CONSIDERATIONS</u></b> Consult state and local regulations regarding the proper disposal of this material.
14	<b><u>TRANSPORT INFORMATION</u></b> Since product is non hazardous, non toxic, non inflammable. No unusual precautions is required.
15	<b><u>REGULATORY INFORMATION</u></b> Consult state and local regulatory authorities.
16	<b><u>OTHER INFORMATION</u></b> 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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<b>Doc No :</b>	MSDS-WT-4020
<b>Rev No :</b>	0
<b>Product :</b>	WATREET
<b>Product Code :</b>	4020

**MATERIAL SAFETY DATA SHEET**

1	<b><u>PRODUCT IDENTIFICATION AND INFORMATION</u></b>	
	Chemical Name : WATREET - 4020 Proprietary formulation : Water softening materials for boiler water.	
2	<b><u>INFORMATION ON INGREDIENTS AND TOXICITY DATA</u></b>	
	Product comprises of the following ingredients :Di Sodium Hydrogen Phosphate basematerial.	
	<b>Name</b>	<b>CAS No</b>
	Di Sodium Hydrogen Phosphate	7758-79-4
		<b>LD50 Oral(Rat)</b>
		12930 mg/kg
3	<b><u>FIRE AND EXPLOSION DATA</u></b>	
	Flammable Limits in air,%by Volume :	N.A
	Flash Point :	None
	Extinguishing Media :	Water, Foam
4	<b><u>FIRST AID MEASURES</u></b>	
	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	<b><u>FIRE FIGHTING MEASURES.</u></b>	
	Since product is not inflammable so no fire fighting measures are required.	
6	<b><u>REACTIVITY DATA</u></b>	
	Stability : Stable under normal storage conditions. Hazardous Polymerisation will not occur.	
7	<b><u>HANDLING AND STORAGE</u></b>	
	Wear rubber gloves and safety goggles. Avoid breathing vapors and avoid skin contact. Keep away from direct heat and sunlight.	
8	<b><u>SPILL OR LEAK PROCEDURES</u></b>	
	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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<b>Doc No :</b>	MSDS-WT-4020
<b>Rev No :</b>	0
<b>Product :</b>	WATREET
<b>Product Code :</b>	4020

**MATERIAL SAFETY DATA SHEET**

9	<b><u>SPECIAL PROTECTION INFORMATION</u></b> 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	<b><u>PHYSICAL &amp; CHEMICAL PROPERTIES</u></b> Refer '2' Composition / information on ingredients
11	<b><u>TOXICOLOGICAL INFORMATION</u></b> Since the product is no toxic at used level, no tests have been carried out.
12	<b><u>ECOLOGICAL INFORMATION</u></b> AQUATIC TOXICOLOGY - No Data Available. BIODEGRADATION - No Data Available.
13	<b><u>DISPOSAL CONSIDERATIONS</u></b> Consult state and local regulations regarding the proper disposal of this material.
14	<b><u>TRANSPORT INFORMATION</u></b> Since product is non hazardous, non toxic, non inflammable. No unusual precautions is required.
15	<b><u>REGULATORY INFORMATION</u></b> Consult state and local regulatory authorities.
16	<b><u>OTHER INFORMATION</u></b> 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.