Trade Name: DEPC Water Revision Date: 4/29/2016

### **SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:**

Product Name: DEPC Water

Manufacturer or Supplier Details:

Company Name: Omega Bio-tek, Inc.

Address: 400 Pinnacle Way, Suite 450

Norcross, GA 30071

USA

Telephone: 1-800-832-8896

Email: info@omegabiotek.com

Emergency Telephone: CHEMTREC

USA & Canada: 1-800-424-9300

Outside USA & Canada: 1-703-527-3887

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

### **SECTION 2. HAZARDS IDENTIFICATION**

**Hazard Classification:** 

Health Hazards: No known OSHA hazards.

Not a dangerous substance according to GHS.

**GHS Label Element:** 

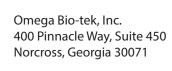
Hazard Symbol: N/A

**Hazard Statements:** Not a hazardous substance or mixture.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:**

**Substance or Mixture:** Mixture of non-hazardous substances.

Synonyms/Common Names: N/A



Trade Name: DEPC Water Revision Date: 4/29/2016

### **SECTION 4. FIRST AID MEASURES:**

**General Advice:** Wear protective gloves/protective clothing/eye protection/face

protection.

**If Inhaled:** If not breathing, give artificial respiration.

**In Case of Skin Contact:** Wash with soap and water.

**In Case of Eye Contact:** Remove contact lenses, if present and easy to do. Continue rinsing.

If Swallowed: N/A

Most Important Symptoms and Effects, Acute and Delayed:

N/A

Recommendations for Immediate Medical Attention and Special

Treatment:

Treat symptomatically. Symptoms may be delayed.

### **SECTION 5. FIREFIGHTING MEASURES:**

**Conditions of Flammability:** Not flammable or combustible.

**Suitable Extinguishing Media:** Dry powder, CO<sub>2</sub>, water spray or regular foam.

**Special Protective Equipment for** 

Firefighters:

Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: N/A

**Further Information:** Prevent firefighting water from entering surface water or

groundwater.

Trade Name: DEPC Water Revision Date: 4/29/2016

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES:**

**Personal Precautions:** Avoid inhalation of vapors or mist. See Section 8: Exposure Controls/

Personal Protection for more information.

**Environmental Precautions:** N/A

**Emergency Procedures:** Evacuate personnel to safe areas and follow emergency response

protocols.

Methods and Materials for Containment and Cleaning Up:

Use inert absorbent material to soak up spill.

### **SECTION 7. HANDLING AND STORAGE:**

**Precautions for Safe Handling:** Handle in accordance with good chemical hygiene and safety

practices. Protect from moisture. Avoid contact with eyes, skin and

clothing. Avoid inhalation of vapors or mist.

**Conditions for Safe Storage:** Keep container tightly closed in a dry, well-ventilated place.

Imcompatible Products: N/A

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

**Appropriate Engineering Controls:** Adequate ventilation and access to eye washing stations are required.

#### Recommendations for Personal Protective Measures:

Hand Protection: Use gloves when handling this product. Inspect gloves prior to use for

any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable

laws. Wash and dry hands after use.

Eye Protection: Use a face shield and/or safety goggles when handling this product.

Use eyewear that has been approved by NIOSH.

Skin and Body Protection: Wear appropriate laboratory attire when handling this product, such

as gloves, long pants, closed-toe shoes and a laboratory coat.

Trade Name: DEPC Water Revision Date: 4/29/2016

Respiratory Protection: If engineering controls do not maintain airborne concentrations

below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been

established), an approved respirator must be used.

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly

after using this product. Do not eat, drink or smoke when handling

this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc:

N/A

**Components with Workplace Control Parameters:** 

N/A

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance:** 

Form: Liquid Color: Colorless

Odor: No data available
Odor Threshold: No data available

**pH:** 7.0-9.0

Melting Point/Freezing Point:No data availableInitial Boiling Point/Boiling Range:No data availableFlash Point:No data availableEvaporation Rate:No data availableFlammability (Solid, Gas):No data availableUpper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper): No data available
Flammability Limit (Lower): No data available
Explosive Limit (Upper): No data available
Explosive Limit (Lower): No data available
Vapor Pressure: No data available
Vapor Density: No data available
Relative Density: No data available.



Trade Name: DEPC Water Revision Date: 4/29/2016

**Solubility:** 

Solubility in Water: No data available Solubility (Other): No data available

Partition Coefficient (n-octanol/

water):

No data available

Auto-Ignition Temperature:No data availableDecomposition Temperature:No data availableViscosity:No data available

### **SECTION 10. STABILITY AND REACTIVITY:**

**Reactivity:** No dangerous reactions known under conditions of normal use.

**Chemical Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: N/A
Conditions to Avoid: N/A
Materials to Avoid: N/A
Hazardous Decomposition Products: N/A

### **SECTION 11. TOXICOLOGICAL INFORMATION:**

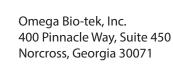
### Information on Likely Routes of Exposure:

Inhalation: No data available
Ingestion: No data available
Skin: No data available
Eyes: No data available

#### Information on Toxicological Effects:

Acute Toxicity:

Oral LD50: No data available
Inhalation LC50: No data available
Dermal LD50: No data available
Other Information: No data available
Skin Corrosion/Irritation: No data available
Serious Eye Damage/Irritation: No data available
Respiratory or Skin Sensitization: No data available



Trade Name: DEPC Water Revision Date: 4/29/2016

Germ Cell Mutagenicity: No data available

Carcinogenicity:

IARC: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by OSHA.

**Reproductive Toxicity:**No data available **Teratogenicity:**No data available

**Specific Target Organ Toxicity -**

Single Exposure:

No data available

**Specific Target Organ Toxicity -**

Repeated Exposures:

No data available

Aspiration Hazard:

Signs and Symptoms of Exposure:

No data available

No data available

No data available

No data available

None known.

### **SECTION 12. ECOLOGICAL INFORMATION:**

Toxicity:

Persistence and Degradability:

Bioaccumulative Potential:

Mobility in Soil:

PBT and vPvB Assessment:

Other Adverse Effects:

No data available.

No data available.

No data available.

No data available.



Trade Name: DEPC Water Revision Date: 4/29/2016

#### **SECTION 13. DISPOSAL CONSIDERATIONS:**

**Product:** Disposal should be in accordance with applicable regional, national and

local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/ Personal Protection for additional handling information and protection of

employees.

**Contaminated Packaging:** Disposal must be made according to official regulations.

### **SECTION 14. TRANSPORT INFORMATION:**

DOT: Not regulated. IMDG: Not regulated. IATA: Not regulated.

#### **SECTION 15. REGULATORY INFORMATION:**

**US Federal Regulations:** 

SARA 302 Components: None present or none present in regulated quantities.

SARA 313 Components: None present or none present in regulated quantities.

SARA 311/312 Hazards: No data available.

**US State Regulations:** 

California Prop. 65: No ingredient regulated by CA Prop 65 present.

Massachusetts RTK: No ingredient regulated by MS Right to Know Act present.

New Jersey & Community RTK: Water CAS No. 7732-18-5

Pennsylvania RTK: Water CAS No. 7732-18-5

Rhode Island RTK: No ingredient regulated by RI Right to Know Act present.

Trade Name: DEPC Water Revision Date: 4/29/2016

### **SECTION 16. OTHER INFORMATION:**

**Issue Date:** 9/10/2015 **Revision Date:** 4/29/2016

Version: 3.0

Further Information: No data available.

**Disclaimer:**The above information is believed to be correct but does not claim to be

all inclusive. This document shall be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Omega Bio-tek, Inc. shall not be held liable for any damage resulting

from handling or from contact with the above product.



Trade Name: NTL Buffer Revision Date: 5/10/2016

### **SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:**

**Product Name:** NTL Buffer

Manufacturer or Supplier Details:

Company Name: Omega Bio-tek, Inc.

Address: 400 Pinnacle Way, Suite 450

Norcross, GA 30071

**USA** 

Telephone: 1-800-832-8896

Email: info@omegabiotek.com

Emergency Telephone: CHEMTREC

USA & Canada: 1-800-424-9300

Outside USA & Canada: 1-703-527-3887

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

### **SECTION 2. HAZARDS IDENTIFICATION**

**Hazard Classification:** 

OSHA Hazards: Harmful by inhalation, harmful by ingestion, harmful in contact with

skin.

Health Hazards: Acute toxicity, inhalation Category 4

Acute toxicity, oral Category 4
Acute toxicity, dermal Category 4
Acute aquatic toxicity Category 3
Chronic aquatic toxicity Category 3

**GHS Label Element:** 

Hazard Symbol:



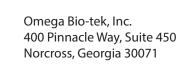
Signal Word: Warning

**Hazard Statements:** H412 - Harmful to aquatic life with long lasting effects.

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

H332 - Harmful if inhaled.



Trade Name: NTL Buffer Revision Date: 5/10/2016

**Precautionary Statements:** P261 - Avoid breathing dust/fumes/gas/mist/vapors/spray.

P311 - Call a POISON CENTER or doctor/physician.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/

physician.

P304 + P340 - IF INHALED: Remove person to fresh air and keep in a

position comfortable for breathing.

**Potential Health Effects:** 

Aggravated Medical Conditions: May cause nervous system disturbances.

Symptoms of Overexposure:

Inhalation: Harmful if inhaled. May cause respiratory tract irritation.

Skin: Harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation. Ingestion: Harmful if swallowed.

**Carcinogenicity:** 

IARC No ingredient of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH No ingredient of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human

carcinogen by ACGIH.

OSHA No ingredient of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human

carcinogen by NTP.

### SECTION 3. COMPOSITION OF/INFORMATION ON INGREDIENTS

**Substance or Mixture:** Mixture of the substances listed below with non-hazardous additions.

Synonyms/Common Names: Guanidinium thiocyanate, Guanidinium rhodanide, Guanidinium

isothiocyanate, Guanidine isothiocyanate

Chemical Name	CAS No.	Concentration (%)
Guanidine thiocyanate CH <sub>E</sub> N <sub>2</sub> . CHNS	593-84-0	25-50%

Trade Name: NTL Buffer Revision Date: 5/10/2016

#### **SECTION 4. FIRST AID MEASURES**

**General Advice:** Exit to a safe area. Consult a physician. Seek medical attention.

**If Inhaled:** Move to fresh air. If not breathing, give artificial respiration. Seek

medical attention.

**In Case of Skin Contact:** Exit to safe area. Remove contaminated clothing. Wash thoroughly

with soap and water. Seek medical attention.

**In Case of Eye Contact:** Flush eyes with clean water for a minimum of 15 minutes keeping

eyes open. Seek medical attention.

If Swallowed: Rinse mouth with water. Never give anything by mouth to an

unconscious person. Seek medical attention.

Most Important Symptoms and

Effects, Acute and Delayed:

May cause pain, irritation or redness, and watering of eyes.

Recommendations for Immediate Medical Attention and Special

**Treatment:** 

#### **SECTION 5. FIREFIGHTING MEASURES**

**Conditions of Flammability:** Not flammable or combustible.

**Suitable Extinguishing Media:** Dry powder, CO<sub>3</sub>, water spray or alcohol-resistant foam.

**Special Protective Equipment for** 

Firefighters:

Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>), sulfur oxides (SOx), nitrogen oxides (NOx)

**Further Information:** Prevent firefighting water from entering surface water or

groundwater.



Trade Name: NTL Buffer Revision Date: 5/10/2016

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Wear respiratory protection when ventilation is inadequate. Avoid

breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. See Section 8: Exposure Controls/Personal

Protection for more details.

**Environmental Precautions:** Prevent further leakage if area is safe. Do not let product enter drains.

Avoid discharge into the environment.

Evacuate personnel to safe areas and follow emergency response **Emergency Procedures:** 

protocols.

**Methods and Materials for Containment and Cleaning Up:** 

Use inert absorbent material to soak up spill. Dispose of hazardous

waste. Do not flush with water.

### **SECTION 7. HANDLING AND STORAGE**

**Precautions for Safe Handling:** Handle in accordance with good chemical hygiene and safety

practices. Protect from moisture. Avoid contact with skin and eyes.

Avoid inhalation of vapors or mist.

**Conditions for Safe Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place.

Protect from light and moisture. Do not store near acids.

**Incompatible Products:** Strong oxidizing agents, strong acids



Trade Name: NTL Buffer Revision Date: 5/10/2016

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Appropriate Engineering Controls:** Adequate ventilation and access to eye washing stations are required.

### **Recommendations for Personal Protective Measures:**

Hand Protection: Use gloves when handling this product. Inspect gloves prior to use for

any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable

laws. Wash and dry hands after use.

Eye Protection: Use a face shield and/or safety goggles when handling this product.

Use eyewear that has been approved by NIOSH.

Skin and Body Protection: Wear appropriate laboratory attire when handling this product, such

as gloves, long pants, closed-toe shoes and a laboratory coat.

Respiratory Protection: If engineering controls do not maintain airborne concentrations

below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been

established), an approved respirator must be used.

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly

after using this product. Do not eat, drink or smoke when handling

this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc.

N/A

**Components with Workplace Control Parameters:** 

N/A

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** 

Form: Liquid

Color: Colorless

Odor: No data available
Odor Threshold: No data available

**pH:** 5.0-7.0

Melting Point/Freezing Point: No data available Initial Boiling Point/Boiling Range: No data available



Trade Name: NTL Buffer Revision Date: 5/10/2016

Flash Point:

Evaporation Rate:

No data available

No data available

No data available

No data available

Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper):

Flammability Limit (Lower):

Explosive Limit (Upper):

Explosive Limit (Lower):

Vapor Pressure:

Vapor Density:

No data available

No data available

No data available

No data available

**Solubility:** 

Solubility in Water: No data available Solubility (Other): No data available

Partition Coefficient (n-octanol/

water):

No data available

Auto-Ignition Temperature:No data availableDecomposition Temperature:No data availableViscosity:No data available

### **SECTION 10. STABILITY AND REACTIVITY**

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** No data available. **Conditions to Avoid:** Heating, flames, sparks

Materials to Avoid: Strong acids, strong oxidizing agents, cyanides

Hazardous Decomposition Products: Carbon oxides (COx), sulfur oxides (SOx), nitrogen oxides (NOx)

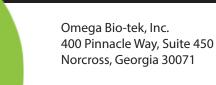
### **SECTION 11. TOXICOLOGICAL INFORMATION**

### Information on Likely Routes of Exposure:

Inhalation: Harmful if inhaled. May cause respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: Harmful if absorbed through skin. May cause skin irritation.



Phone: (770) 931-8400 info@omegabiotek.com www.omegabiotek.com

Trade Name: NTL Buffer Revision Date: 5/10/2016

Eyes: May cause eye irritation.

### **Information on Toxicological Effects:**

**Acute Toxicity:** 

Oral LD50: 593 mg/kg (Rat)
Inhalation LC50: No data available
Dermal LD50: No data available

Other Information: Peritoneal LD50: 300 mg/kg (Mouse)

Skin Corrosion/Irritation: No data available
Serious Eye Damage/Irritation: No data available

Respiratory or Skin Sensitization: Components of this product may be absorbed into the body through

the skin. Irritating to skin and mucus membranes.

Germ Cell Mutagenicity: No data available

**Carcinogenicity:** 

IARC: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by OSHA.

**Reproductive Toxicity:**No data available **Teratogenicity:**No data available

**Specific Target Organ Toxicity -**

Single Exposure:

No data available

**Specific Target Organ Toxicity -**

**Repeated Exposures:** 

No data available

Aspiration Hazard: No data available

**Signs and Symptoms of Exposure:** Irritating to eyes, respiratory system and skin.

Synergistic Effects:No data availableAdditional Information:No data available



Trade Name: NTL Buffer Revision Date: 5/10/2016

### **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity:** EC50: 42.4 mg/L - 48 h (*Daphnia*)

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

**Mobility in Soil:** Product is water soluable and may spread in water systems.

**PBT and vPvB Assessment:** No data available.

Other Adverse Effects: Harmful to aquatic life with long lasting effects.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Product:** Disposal should be in accordance with applicable regional, national and

local laws and regulations.

S29 - Do not empty into drains.

S57 - Use appropriate container to avoid environmental contamination.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/ Personal Protection for additional handling information and protection of

employees.

**Contaminated Packaging:** Disposal must be made according to official regulations.

To minimize exposure, please refer to Section 8: Exposure Control/Personal

Protection of this SDS.

### **SECTION 14. TRANSPORT INFORMATION**

DOT:Not considered dangerous goods.IMDG:Not considered dangerous goods.IATA:Not considered dangerous goods.

### **SECTION 15. REGULATORY INFORMATION**

**US Federal Regulations:** 

OSHA Hazards: Harmful by inhalation, harmful by ingestion, harmful in contact with

skin.

**Aggravated Medical** 

Conditions:

May cause nervous system disturbances.

Symptoms of Overexposure:

Trade Name: NTL Buffer Revision Date: 5/10/2016

> Inhalation: Harmful if inhaled. May cause respiratory irritation.

Skin: Harmful if absorbed through skin. May cause skin irritation.

May cause eye irritation. Eyes: Harmful if swallowed. Ingestion:

SARA 302 Components: None present or none present in regulated quantities. SARA 313 Components: None present or none present in regulated quantities.

SARA 311/312 Hazards: Acute health hazard

**US State Regulations:** 

California Prop. 65: No ingredient regulated by CA Prop 65 present.

Massachusetts RTK: No component are subject to the MA RTK Act.

New Jersey RTK: Component(s) CAS-No.

Guanidine thiocyanate 593-84-0 Water 7732-18-5 593-84-0

Pennsylvania RTK: Guanidine thiocyanate Water 7732-18-5

593-84-0

**Rhode Island RTK:** Guanidine thiocyanate Water 7732-18-5

### **SECTION 16. OTHER INFORMATION**

**Issue Date:** 8/29/2016 **Revision Date:** 5/10/2016

Version: 4.0

**Further Information:** No data available.

Disclaimer: The above information is believed to be correct but does not claim to be

all inclusive. This document shall be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Omega Bio-tek, Inc. shall not be held liable for any damage resulting

from handling or from contact with the above product.



Trade Name: RB Buffer Revision Date: 6/10/2018

### **SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:**

**Product Name:** RB Buffer

**Manufacturer or Supplier Details:** 

Company Name: Bioland Scientific LLC

Address: Bioland Scientific LLC

14925 Paramount Blvd., Suite C

Paramount, CA 90723

USA

Telephone: 1-562-377-2668 Email: 1-562-733-6008 Emergency Telephone: 1-562-377-2668

### Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

### **SECTION 2. HAZARDS IDENTIFICATION**

**Hazard Classification:** 

OSHA Hazards: Harmful by inhalation, harmful by ingestion, harmful in contact with

skin.

Health Hazards: Acute toxicity, inhalation Category 4

Acute toxicity, oral Category 4
Acute toxicity, dermal Category 4
Acute aquatic toxicity Category 3
Chronic aquatic toxicity Category 3

**GHS Label Element:** 

Hazard Symbol:

Signal Word: Warning

**Hazard Statements:** H412 - Harmful to aquatic life with long lasting effects.

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

H332 - Harmful if inhaled.

Trade Name: RB Buffer Revision Date: 6/10/2018

**Precautionary Statements:** P261 - Avoid breathing dust/fumes/gas/mist/vapors/spray.

P311 - Call a POISON CENTER or doctor/physician.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/

physician.

P304 + P340 - IF INHALED: Remove person to fresh air and keep in a

position comfortable for breathing.

**Potential Health Effects:** 

Aggravated Medical Conditions: May cause nervous system disturbances.

Symptoms of Overexposure:

Inhalation: Harmful if inhaled. May cause respiratory tract irritation.

Skin: Harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation. Ingestion: Harmful if swallowed.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH No ingredient of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human

carcinogen by ACGIH.

OSHA No ingredient of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human

carcinogen by NTP.

### SECTION 3. COMPOSITION OF/INFORMATION ON INGREDIENTS

**Substance or Mixture:** Mixture of the substances listed below with non-hazardous additions.

Synonyms/Common Names: Guanidinium thiocyanate, Guanidinium rhodanide, Guanidinium

isothiocyanate, Guanidine isothiocyanate

Chemical Name	CAS No.	Concentration (%)
Guanidine thiocyanate CH <sub>s</sub> N <sub>s</sub> . CHNS	593-84-0	25-50%

Trade Name: RB Buffer Revision Date: 6/10/2018

### **SECTION 4. FIRST AID MEASURES**

**General Advice:** Exit to a safe area. Consult a physician. Seek medical attention.

If Inhaled: Move to fresh air. If not breathing, give artificial respiration. Seek

medical attention.

In Case of Skin Contact: Exit to safe area. Remove contaminated clothing. Wash thoroughly

with soap and water. Seek medical attention.

In Case of Eye Contact: Flush eyes with clean water for a minimum of 15 minutes keeping

eyes open. Seek medical attention.

If Swallowed: Rinse mouth with water. Never give anything by mouth to an

unconscious person. Seek medical attention.

**Most Important Symptoms and** 

Effects, Acute and Delayed:

May cause pain, irritation or redness, and watering of eyes.

**Recommendations for Immediate Medical Attention and Special** 

**Treatment:** 

### **SECTION 5. FIREFIGHTING MEASURES**

Not flammable or combustible. **Conditions of Flammability:** 

**Suitable Extinguishing Media:** Dry powder, CO<sub>2</sub>, water spray or alcohol-resistant foam.

**Special Protective Equipment for** 

Firefighters:

Wear self-contained breathing apparatus, if necessary.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>), sulfur oxides (SOx), nitrogen oxides (NOx)

**Further Information:** Prevent firefighting water from entering surface water or

groundwater.

Trade Name: RB Buffer Revision Date: 6/10/2018

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Wear respiratory protection when ventilation is inadequate. Avoid

breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. See Section 8: Exposure Controls/Personal

Protection for more details.

**Environmental Precautions:** Prevent further leakage if area is safe. Do not let product enter drains.

Avoid discharge into the environment.

**Emergency Procedures:** Evacuate personnel to safe areas and follow emergency response

protocols.

Methods and Materials for Containment and Cleaning Up:

Use inert absorbent material to soak up spill. Dispose of hazardous

waste. Do not flush with water.

### **SECTION 7. HANDLING AND STORAGE**

Precautions for Safe Handling: Handle in accordance with good chemical hygiene and safety

practices. Protect from moisture. Avoid contact with skin and eyes.

Avoid inhalation of vapors or mist.

**Conditions for Safe Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place.

Protect from light and moisture. Do not store near acids.

**Incompatible Products:** Strong oxidizing agents, strong acids

Trade Name: RB Buffer Revision Date: 6/10/2018

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Appropriate Engineering Controls:** Adequate ventilation and access to eye washing stations are required.

### **Recommendations for Personal Protective Measures:**

Hand Protection: Use gloves when handling this product. Inspect gloves prior to use for

any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable

laws. Wash and dry hands after use.

Eye Protection: Use a face shield and/or safety goggles when handling this product.

Use eyewear that has been approved by NIOSH.

Skin and Body Protection: Wear appropriate laboratory attire when handling this product, such

as gloves, long pants, closed-toe shoes and a laboratory coat.

Respiratory Protection: If engineering controls do not maintain airborne concentrations

below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been

established), an approved respirator must be used.

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly

after using this product. Do not eat, drink or smoke when handling

this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc.

N/A

**Components with Workplace Control Parameters:** 

N/A

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** 

Form: Liquid

Color: Colorless

Odor: No data available
Odor Threshold: No data available

**pH:** 3.0-5.0

**Melting Point/Freezing Point:**No data available **Initial Boiling Point/Boiling Range:**No data available

Trade Name: RB Buffer Revision Date: 6/10/2018

Flash Point:

Evaporation Rate:

No data available

No data available

No data available

No data available

Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper):

Flammability Limit (Lower):

Explosive Limit (Upper):

Explosive Limit (Lower):

No data available

No data available

Vapor Pressure:

Vapor Density:

No data available

No data available

No data available

No data available

**Solubility:** 

Solubility in Water: No data available Solubility (Other): No data available

Partition Coefficient (n-octanol/

water):

No data available

Auto-Ignition Temperature:No data availableDecomposition Temperature:No data availableViscosity:No data available

### **SECTION 10. STABILITY AND REACTIVITY**

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** No data available. **Conditions to Avoid:** Heating, flames, sparks

Materials to Avoid: Strong acids, strong oxidizing agents, cyanides

Hazardous Decomposition Products: Carbon oxides (COx), sulfur oxides (SOx), nitrogen oxides (NOx)

### **SECTION 11. TOXICOLOGICAL INFORMATION**

### Information on Likely Routes of Exposure:

Inhalation: Harmful if inhaled. May cause respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: Harmful if absorbed through skin. May cause skin irritation.

Trade Name: RB Buffer Revision Date: 6/10/2018

Eyes: May cause eye irritation.

### Information on Toxicological Effects:

Acute Toxicity:

Oral LD50: 593 mg/kg (Rat)
Inhalation LC50: No data available
Dermal LD50: No data available

Other Information: Peritoneal LD50: 300 mg/kg (Mouse)

Skin Corrosion/Irritation: No data available
Serious Eye Damage/Irritation: No data available

Respiratory or Skin Sensitization: Components of this product may be absorbed into the body through

the skin. Irritating to skin and mucus membranes.

Germ Cell Mutagenicity: No data available

**Carcinogenicity:** 

IARC: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by OSHA.

**Reproductive Toxicity:**No data available **Teratogenicity:**No data available

**Specific Target Organ Toxicity -**

**Single Exposure:** 

No data available

**Specific Target Organ Toxicity -**

Repeated Exposures:

No data available

**Aspiration Hazard:** No data available

**Signs and Symptoms of Exposure:** Irritating to eyes, respiratory system and skin.

Synergistic Effects:No data availableAdditional Information:No data available

Trade Name: RB Buffer Revision Date: 6/10/2018

### **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity:** EC50: 42.4 mg/L - 48 h (*Daphnia*)

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

**Mobility in Soil:** Product is water soluable and may spread in water systems.

**PBT and vPvB Assessment:** No data available.

Other Adverse Effects: Harmful to aquatic life with long lasting effects.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Product:** Disposal should be in accordance with applicable regional, national and

local laws and regulations.

S29 - Do not empty into drains.

S57 - Use appropriate container to avoid environmental contamination.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/ Personal Protection for additional handling information and protection of

employees.

**Contaminated Packaging:** Disposal must be made according to official regulations.

To minimize exposure, please refer to Section 8: Exposure Control/Personal

Protection of this SDS.

### **SECTION 14. TRANSPORT INFORMATION**

DOT: Not considered dangerous goods.

IMDG: Not considered dangerous goods.

IATA: Not considered dangerous goods.

### **SECTION 15. REGULATORY INFORMATION**

**US Federal Regulations:** 

OSHA Hazards: Harmful by inhalation, harmful by ingestion, harmful in contact with

skin.

**Aggravated Medical** 

Conditions:

May cause nervous system disturbances.

Symptoms of Overexposure:

Trade Name: RB Buffer Revision Date: 6/10/2018

Inhalation: Harmful if inhaled. May cause respiratory irritation.

Skin: Harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.
Ingestion: Harmful if swallowed.

SARA 302 Components: None present or none present in regulated quantities.

SARA 313 Components: None present or none present in regulated quantities.

SARA 311/312 Hazards: Acute health hazard

**US State Regulations:** 

California Prop. 65: No ingredient regulated by CA Prop 65 present.

Massachusetts RTK: No component are subject to the MA RTK Act.

New Jersey RTK: Component(s) CAS-No.
Guanidine thiocyanate 593-84-0
Water 7732-18-5

Pennsylvania RTK: Guanidine thiocyanate 593-84-0 Water 7732-18-5

Rhode Island RTK: Guanidine thiocyanate 593-84-0

Water 7732-18-5

#### **SECTION 16. OTHER INFORMATION**

### Disclaimer:

Bioland Scientific LLC provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. BIOLAND SCIENTIFIC LLC MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, BIOLAND SCIENTIFIC LLC WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

Trade Name: RNA Wash Buffer I Revision Date: 5/10/2016

### **SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:**

Product Name: RNA Wash Buffer I

Manufacturer or Supplier Details:

Company Name: Omega Bio-tek, Inc.

Address: 400 Pinnacle Way, Suite 450

Norcross, GA 30071

USA

Telephone: 1-800-832-8896

Email: info@omegabiotek.com

Emergency Telephone: CHEMTREC

USA & Canada: 1-800-424-9300

Outside USA & Canada: 1-703-527-3887

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

### **SECTION 2. HAZARDS IDENTIFICATION**

**Hazard Classification:** 

OSHA Hazards: Harmful by inhalation, harmful by ingestion, harmful in contact with

skin.

Health Hazards: Acute toxicity, inhalation Category 4

Acute toxicity, oral Category 4
Acute toxicity, dermal Category 4
Acute aquatic toxicity Category 3
Chronic aquatic toxicity Category 3

**GHS Label Element:** 

Hazard Symbol:



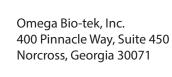
Signal Word: Warning

**Hazard Statements:** H412 - Harmful to aquatic life with long lasting effects.

H302 - Harmful if swallowed.

H312 - Harmful in contact with skin.

H332 - Harmful if inhaled.



Trade Name: RNA Wash Buffer I Revision Date: 5/10/2016

**Precautionary Statements:** P261 - Avoid breathing dust/fumes/gas/mist/vapors/spray.

P311 - Call a POISON CENTER or doctor/physician.

P280 - Wear protective gloves/protective clothing/eye protection/face

protection.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/

physician.

P304 + P340 - IF INHALED: Remove person to fresh air and keep in a

position comfortable for breathing.

**Potential Health Effects:** 

Aggravated Medical Conditions: May cause nervous system disturbances.

Symptoms of Overexposure:

Inhalation: Harmful if inhaled. May cause respiratory tract irritation.

Skin: Harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation. Ingestion: Harmful if swallowed.

Carcinogenicity:

IARC No ingredient of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human

carcinogen by IARC.

ACGIH No ingredient of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human

carcinogen by ACGIH.

OSHA No ingredient of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human

carcinogen by OSHA.

NTP No ingredient of this product present at levels greater than or equal to

0.1% is identified as probable, possible or confirmed human

carcinogen by NTP.

### SECTION 3. COMPOSITION OF/INFORMATION ON INGREDIENTS

**Substance or Mixture:** Mixture of the substances listed below with non-hazardous additions.

Synonyms/Common Names: Guanidinium thiocyanate, Guanidinium rhodanide, Guanidinium

isothiocyanate, Guanidine isothiocyanate

Chemical Name	CAS No.	Concentration (%)
Guanidine thiocyanate CH <sub>E</sub> N <sub>3</sub> . CHNS	593-84-0	25-50%

Trade Name: RNA Wash Buffer I Revision Date: 5/10/2016

#### **SECTION 4. FIRST AID MEASURES**

**General Advice:** Exit to a safe area. Consult a physician. Seek medical attention.

If Inhaled: Move to fresh air. If not breathing, give artificial respiration. Seek

medical attention.

In Case of Skin Contact: Exit to safe area. Remove contaminated clothing. Wash thoroughly

with soap and water. Seek medical attention.

In Case of Eye Contact: Flush eyes with clean water for a minimum of 15 minutes keeping

eyes open. Seek medical attention.

If Swallowed: Rinse mouth with water. Never give anything by mouth to an

unconscious person. Seek medical attention.

**Most Important Symptoms and** 

Effects, Acute and Delayed:

May cause pain, irritation or redness, and watering of eyes.

**Recommendations for Immediate Medical Attention and Special** 

**Treatment:** 

#### **SECTION 5. FIREFIGHTING MEASURES**

Not flammable or combustible. **Conditions of Flammability:** 

**Suitable Extinguishing Media:** Dry powder, CO<sub>2</sub>, water spray or alcohol-resistant foam.

**Special Protective Equipment for** 

Firefighters:

Wear self-contained breathing apparatus, if necessary.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>), sulfur oxides (SOx), nitrogen oxides (NOx)

**Further Information:** Prevent firefighting water from entering surface water or

groundwater.



Trade Name: RNA Wash Buffer I Revision Date: 5/10/2016

### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** Wear respiratory protection when ventilation is inadequate. Avoid

breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. See Section 8: Exposure Controls/Personal

Protection for more details.

**Environmental Precautions:** Prevent further leakage if area is safe. Do not let product enter drains.

Avoid discharge into the environment.

**Emergency Procedures:** Evacuate personnel to safe areas and follow emergency response

protocols.

Methods and Materials for Containment and Cleaning Up:

Use inert absorbent material to soak up spill. Dispose of hazardous

waste. Do not flush with water.

#### **SECTION 7. HANDLING AND STORAGE**

**Precautions for Safe Handling:** Handle in accordance with good chemical hygiene and safety

practices. Protect from moisture. Avoid contact with skin and eyes.

Avoid inhalation of vapors or mist.

**Conditions for Safe Storage:** Keep containers tightly closed in a dry, cool and well-ventilated place.

Protect from light and moisture. Do not store near acids.

**Incompatible Products:** Strong oxidizing agents, strong acids



Trade Name: RNA Wash Buffer I Revision Date: 5/10/2016

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Appropriate Engineering Controls:** Adequate ventilation and access to eye washing stations are required.

### **Recommendations for Personal Protective Measures:**

Hand Protection: Use gloves when handling this product. Inspect gloves prior to use for

any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable

laws. Wash and dry hands after use.

Eye Protection: Use a face shield and/or safety goggles when handling this product.

Use eyewear that has been approved by NIOSH.

Skin and Body Protection: Wear appropriate laboratory attire when handling this product, such

as gloves, long pants, closed-toe shoes and a laboratory coat.

Respiratory Protection: If engineering controls do not maintain airborne concentrations

below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been

established), an approved respirator must be used.

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly

after using this product. Do not eat, drink or smoke when handling

this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc.

N/A

**Components with Workplace Control Parameters:** 

N/A

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** 

Form: Liquid

Color: Colorless

Odor: No data available
Odor Threshold: No data available

**pH:** 5.0-7.0

**Melting Point/Freezing Point:**No data available **Initial Boiling Point/Boiling Range:**No data available



Trade Name: RNA Wash Buffer I Revision Date: 5/10/2016

Flash Point:

Evaporation Rate:

No data available

No data available

No data available

No data available

Upper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper):

Flammability Limit (Lower):

Explosive Limit (Upper):

Explosive Limit (Lower):

Vapor Pressure:

Vapor Density:

No data available

**Solubility:** 

Solubility in Water: No data available Solubility (Other): No data available

Partition Coefficient (n-octanol/

water):

No data available

Auto-Ignition Temperature:No data availableDecomposition Temperature:No data availableViscosity:No data available

### **SECTION 10. STABILITY AND REACTIVITY**

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical Stability:** Stable under recommended storage conditions.

**Possibility of Hazardous Reactions:** No data available. **Conditions to Avoid:** Heating, flames, sparks

Materials to Avoid: Strong acids, strong oxidizing agents, cyanides

Hazardous Decomposition Products: Carbon oxides (COx), sulfur oxides (SOx), nitrogen oxides (NOx)

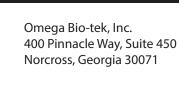
### **SECTION 11. TOXICOLOGICAL INFORMATION**

### Information on Likely Routes of Exposure:

Inhalation: Harmful if inhaled. May cause respiratory tract irritation.

Ingestion: Harmful if swallowed.

Skin: Harmful if absorbed through skin. May cause skin irritation.



Trade Name: RNA Wash Buffer I Revision Date: 5/10/2016

Eyes: May cause eye irritation.

### **Information on Toxicological Effects:**

Acute Toxicity:

Oral LD50: 593 mg/kg (Rat)
Inhalation LC50: No data available
Dermal LD50: No data available

Other Information: Peritoneal LD50: 300 mg/kg (Mouse)

Skin Corrosion/Irritation: No data available
Serious Eye Damage/Irritation: No data available

Respiratory or Skin Sensitization: Components of this product may be absorbed into the body through

the skin. Irritating to skin and mucus membranes.

Germ Cell Mutagenicity: No data available

**Carcinogenicity:** 

IARC: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by OSHA.

**Reproductive Toxicity:**No data available **Teratogenicity:**No data available

**Specific Target Organ Toxicity -**

**Single Exposure:** 

No data available

**Specific Target Organ Toxicity -**

**Repeated Exposures:** 

No data available

**Aspiration Hazard:** No data available

**Signs and Symptoms of Exposure:** Irritating to eyes, respiratory system and skin.

Synergistic Effects: No data available
Additional Information: No data available



Trade Name: RNA Wash Buffer I Revision Date: 5/10/2016

### **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity:** EC50: 42.4 mg/L - 48 h (*Daphnia*)

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

**Mobility in Soil:** Product is water soluable and may spread in water systems.

**PBT and vPvB Assessment:** No data available.

Other Adverse Effects: Harmful to aquatic life with long lasting effects.

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

**Product:** Disposal should be in accordance with applicable regional, national and

local laws and regulations.

S29 - Do not empty into drains.

S57 - Use appropriate container to avoid environmental contamination.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/ Personal Protection for additional handling information and protection of

employees.

**Contaminated Packaging:** Disposal must be made according to official regulations.

To minimize exposure, please refer to Section 8: Exposure Control/Personal

Protection of this SDS.

### **SECTION 14. TRANSPORT INFORMATION**

DOT: Not considered dangerous goods.

IMDG: Not considered dangerous goods.

IATA: Not considered dangerous goods.

### **SECTION 15. REGULATORY INFORMATION**

**US Federal Regulations:** 

OSHA Hazards: Harmful by inhalation, harmful by ingestion, harmful in contact with

skin.

**Aggravated Medical** 

Conditions:

May cause nervous system disturbances.

Symptoms of Overexposure:

Trade Name: RNA Wash Buffer I Revision Date: 5/10/2016

Inhalation: Harmful if inhaled. May cause respiratory irritation.

Skin: Harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation. Ingestion: Harmful if swallowed.

SARA 302 Components: None present or none present in regulated quantities.

SARA 313 Components: None present or none present in regulated quantities.

SARA 311/312 Hazards: Acute health hazard

**US State Regulations:** 

California Prop. 65: No ingredient regulated by CA Prop 65 present.

Massachusetts RTK: No component are subject to the MA RTK Act. New Jersey RTK: Component(s) CAS-No.

Component(s)CAS-No.Guanidine thiocyanate593-84-0Water7732-18-5

Pennsylvania RTK: Guanidine thiocyanate 593-84-0 Water 7732-18-5

// 32-10-3

Rhode Island RTK: Guanidine thiocyanate 593-84-0 Water 7732-18-5

### **SECTION 16. OTHER INFORMATION**

 Issue Date:
 8/29/2016

 Revision Date:
 5/10/2016

Version: 4.0

Further Information: No data available.

**Disclaimer:** The above information is believed to be correct but does not claim to be

all inclusive. This document shall be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Omega Bio-tek, Inc. shall not be held liable for any damage resulting

from handling or from contact with the above product.



Trade Name: RNA Wash Buffer II Revision Date: 4/29/2016

### **SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:**

Product Name: RNA Wash Buffer II

**Manufacturer or Supplier Details:** 

Company Name: Omega Bio-tek, Inc.

Address: 400 Pinnacle Way, Suite 450

Norcross, GA 30071

**USA** 

Telephone: 1-800-832-8896

Email: info@omegabiotek.com

Emergency Telephone: CHEMTREC

USA & Canada: 1-800-424-9300

Outside USA & Canada: 1-703-527-3887

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

### **SECTION 2. HAZARDS IDENTIFICATION**

**Hazard Classification:** 

Health Hazards: No known OSHA hazards.

Not a dangerous substance according to GHS.

**GHS Label Element:** 

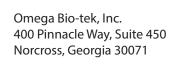
Hazard Symbol: N/A

**Hazard Statements:** Not a hazardous substance or mixture.

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:**

**Substance or Mixture:** Mixture of non-hazardous substances.

Synonyms/Common Names: N/A



Trade Name: RNA Wash Buffer II Revision Date: 4/29/2016

## **SECTION 4. FIRST AID MEASURES:**

**General Advice:** Wear protective gloves/protective clothing/eye protection/face

protection.

**If Inhaled:** If not breathing, give artificial respiration.

**In Case of Skin Contact:** Wash with soap and water.

**In Case of Eye Contact:** Remove contact lenses, if present and easy to do. Continue rinsing.

If Swallowed: N/A

Most Important Symptoms and Effects, Acute and Delayed:

N/A

Recommendations for Immediate Medical Attention and Special

Treatment:

Treat symptomatically. Symptoms may be delayed.

## **SECTION 5. FIREFIGHTING MEASURES:**

**Conditions of Flammability:** Not flammable or combustible.

**Suitable Extinguishing Media:** Dry powder, CO<sub>2</sub>, water spray or regular foam.

**Special Protective Equipment for** 

Firefighters:

Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: N/A

**Further Information:** Prevent firefighting water from entering surface water or

groundwater.

Trade Name: RNA Wash Buffer II Revision Date: 4/29/2016

### **SECTION 6. ACCIDENTAL RELEASE MEASURES:**

**Personal Precautions:** Avoid inhalation of vapors or mist. See Section 8: Exposure Controls/

Personal Protection for more information.

**Environmental Precautions:** N/A

**Emergency Procedures:** Evacuate personnel to safe areas and follow emergency response

protocols.

Methods and Materials for Containment and Cleaning Up:

Use inert absorbent material to soak up spill.

### **SECTION 7. HANDLING AND STORAGE:**

**Precautions for Safe Handling:** Handle in accordance with good chemical hygiene and safety

practices. Protect from moisture. Avoid contact with eyes, skin and

clothing. Avoid inhalation of vapors or mist.

**Conditions for Safe Storage:** Keep container tightly closed in a dry, well-ventilated place.

Imcompatible Products: N/A

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

**Appropriate Engineering Controls:** Adequate ventilation and access to eye washing stations are required.

#### Recommendations for Personal Protective Measures:

Hand Protection: Use gloves when handling this product. Inspect gloves prior to use for

any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable

laws. Wash and dry hands after use.

Eye Protection: Use a face shield and/or safety goggles when handling this product.

Use eyewear that has been approved by NIOSH.

Skin and Body Protection: Wear appropriate laboratory attire when handling this product, such

as gloves, long pants, closed-toe shoes and a laboratory coat.

Trade Name: RNA Wash Buffer II Revision Date: 4/29/2016

Respiratory Protection: If engineering controls do not maintain airborne concentrations

below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been

established), an approved respirator must be used.

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly

after using this product. Do not eat, drink or smoke when handling

this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc:

N/A

**Components with Workplace Control Parameters:** 

N/A

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance:** 

Form: Liquid Color: Colorless

Odor: No data available
Odor Threshold: No data available

**pH:** 7.0-9.0

Melting Point/Freezing Point:No data availableInitial Boiling Point/Boiling Range:No data availableFlash Point:No data availableEvaporation Rate:No data availableFlammability (Solid, Gas):No data availableUpper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper): No data available
Flammability Limit (Lower): No data available
Explosive Limit (Upper): No data available
Explosive Limit (Lower): No data available
Vapor Pressure: No data available
Vapor Density: No data available
Relative Density: No data available.



Trade Name: RNA Wash Buffer II Revision Date: 4/29/2016

**Solubility:** 

Solubility in Water: No data available Solubility (Other): No data available

Partition Coefficient (n-octanol/

water):

No data available

Auto-Ignition Temperature:No data availableDecomposition Temperature:No data availableViscosity:No data available

### **SECTION 10. STABILITY AND REACTIVITY:**

**Reactivity:** No dangerous reactions known under conditions of normal use.

**Chemical Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: N/A
Conditions to Avoid: N/A
Materials to Avoid: N/A
Hazardous Decomposition Products: N/A

## **SECTION 11. TOXICOLOGICAL INFORMATION:**

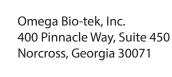
## Information on Likely Routes of Exposure:

Inhalation: No data available
Ingestion: No data available
Skin: No data available
Eyes: No data available

### Information on Toxicological Effects:

Acute Toxicity:

Oral LD50: No data available
Inhalation LC50: No data available
Dermal LD50: No data available
Other Information: No data available
Skin Corrosion/Irritation: No data available
Serious Eye Damage/Irritation: No data available
Respiratory or Skin Sensitization: No data available



Trade Name: RNA Wash Buffer II Revision Date: 4/29/2016

Germ Cell Mutagenicity: No data available

Carcinogenicity:

IARC: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by OSHA.

**Reproductive Toxicity:**No data available **Teratogenicity:**No data available

**Specific Target Organ Toxicity -**

Single Exposure:

No data available

**Specific Target Organ Toxicity -**

Repeated Exposures:

No data available

Aspiration Hazard: No data available
Signs and Symptoms of Exposure: No data available
Synergistic Effects: No data available
Additional Information: None known.

## **SECTION 12. ECOLOGICAL INFORMATION:**

Toxicity:

Persistence and Degradability:

Bioaccumulative Potential:

Mobility in Soil:

PBT and vPvB Assessment:

Other Adverse Effects:

No data available.

No data available.

No data available.

No data available.

Trade Name: RNA Wash Buffer II Revision Date: 4/29/2016

### SECTION 13. DISPOSAL CONSIDERATIONS:

**Product:** Disposal should be in accordance with applicable regional, national and

local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/ Personal Protection for additional handling information and protection of

employees.

**Contaminated Packaging:** Disposal must be made according to official regulations.

## **SECTION 14. TRANSPORT INFORMATION:**

DOT: Not regulated. IMDG: Not regulated. IATA: Not regulated.

### **SECTION 15. REGULATORY INFORMATION:**

**US Federal Regulations:** 

SARA 302 Components: None present or none present in regulated quantities.

SARA 313 Components: None present or none present in regulated quantities.

SARA 311/312 Hazards: No data available.

**US State Regulations:** 

California Prop. 65: No ingredient regulated by CA Prop 65 present.

Massachusetts RTK: No ingredient regulated by MS Right to Know Act present.

New Jersey & Community RTK: Water CAS No. 7732-18-5

Pennsylvania RTK: Water CAS No. 7732-18-5

Rhode Island RTK: No ingredient regulated by RI Right to Know Act present.

Trade Name: RNA Wash Buffer II Revision Date: 4/29/2016

## **SECTION 16. OTHER INFORMATION:**

**Issue Date:** 9/10/2015 **Revision Date:** 4/29/2016

Version: 3.0

Further Information: No data available.

**Disclaimer:**The above information is believed to be correct but does not claim to be

all inclusive. This document shall be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Omega Bio-tek, Inc. shall not be held liable for any damage resulting

from handling or from contact with the above product.



Trade Name: SP Buffer Revision Date: 6/29/2018

## **SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:**

Product Name: SP Buffer

**Manufacturer or Supplier Details:** 

Company Name: Bioland Scientific LLC

Address: Bioland Scientific LLC

14925 Paramount Blvd., Suite C

Paramount, CA 90723

**USA** 

Telephone: 1-562-377-2668 Fax: 1-562-733-6008

Emergency Telephone: 1-562-377-2668

Recommended Use of the Chemical and Restrictions on Use:

Recommended Use: For research use only.

**SECTION 2. HAZARDS IDENTIFICATION** 

**Hazard Classification:** 

Health Hazards: No known OSHA hazards.

Not a dangerous substance according to GHS.

**GHS Label Element:** 

Hazard Symbol: N/A

**Hazard Statements:** Not a hazardous substance or mixture.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS:** 

**Substance or Mixture:** Mixture of non-hazardous substances.

Synonyms/Common Names: N/A

Trade Name: SP Buffer Revision Date: 6/29/2018

## **SECTION 4. FIRST AID MEASURES:**

**General Advice:** Wear protective gloves/protective clothing/eye protection/face

protection.

**If Inhaled:** If not breathing, give artificial respiration.

**In Case of Skin Contact:** Wash with soap and water.

**In Case of Eye Contact:** Remove contact lenses, if present and easy to do. Continue rinsing.

If Swallowed: N/A

Most Important Symptoms and Effects, Acute and Delayed:

N/A

Recommendations for Immediate Medical Attention and Special

**Treatment:** 

Treat symptomatically. Symptoms may be delayed.

## **SECTION 5. FIREFIGHTING MEASURES:**

**Conditions of Flammability:** Not flammable or combustible.

**Suitable Extinguishing Media:** Dry powder, CO<sub>2</sub>, water spray or regular foam.

**Special Protective Equipment for** 

Firefighters:

Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: N/A

**Further Information:** Prevent firefighting water from entering surface water or

groundwater.

Trade Name: SP Buffer Revision Date: 6/29/2018

### **SECTION 6. ACCIDENTAL RELEASE MEASURES:**

**Personal Precautions:** Avoid inhalation of vapors or mist. See Section 8: Exposure Controls/

Personal Protection for more information.

**Environmental Precautions:** N/A

**Emergency Procedures:** Evacuate personnel to safe areas and follow emergency response

protocols.

Methods and Materials for Containment and Cleaning Up:

Use inert absorbent material to soak up spill.

## **SECTION 7. HANDLING AND STORAGE:**

**Precautions for Safe Handling:** Handle in accordance with good chemical hygiene and safety

practices. Protect from moisture. Avoid contact with eyes, skin and

clothing. Avoid inhalation of vapors or mist.

**Conditions for Safe Storage:** Keep container tightly closed in a dry, well-ventilated place.

Imcompatible Products: N/A

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

**Appropriate Engineering Controls:** Adequate ventilation and access to eye washing stations are required.

#### **Recommendations for Personal Protective Measures:**

Hand Protection: Use gloves when handling this product. Inspect gloves prior to use for

any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable

laws. Wash and dry hands after use.

Eye Protection: Use a face shield and/or safety goggles when handling this product.

Use eyewear that has been approved by NIOSH.

Skin and Body Protection: Wear appropriate laboratory attire when handling this product, such

as gloves, long pants, closed-toe shoes and a laboratory coat.

Trade Name: SP Buffer Revision Date: 6/29/2018

Respiratory Protection: If engineering controls do not maintain airborne concentrations

below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been

established), an approved respirator must be used.

Hygiene Measures: Avoid contact with eyes, skin and clothing. Wash hands thoroughly

after using this product. Do not eat, drink or smoke when handling

this product.

Special Requirements for Personal Protective Equipment, Protective Clothing, Respirators, etc:

N/A

**Components with Workplace Control Parameters:** 

N/A

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:**

**Appearance:** 

Form: Liquid Color: Colorless

Odor: No data available
Odor Threshold: No data available

**pH:** 5.0-6.0

Melting Point/Freezing Point:No data availableInitial Boiling Point/Boiling Range:No data availableFlash Point:No data availableEvaporation Rate:No data availableFlammability (Solid, Gas):No data availableUpper/Lower Limits on Flammability and Explosive Limits:

Flammability Limit (Upper): No data available
Flammability Limit (Lower): No data available
Explosive Limit (Upper): No data available
Explosive Limit (Lower): No data available
Vapor Pressure: No data available
Vapor Density: No data available
Relative Density: No data available.

Trade Name: SP Buffer Revision Date: 6/29/2018

**Solubility:** 

Solubility in Water: No data available Solubility (Other): No data available

Partition Coefficient (n-octanol/

water):

No data available

Auto-Ignition Temperature:No data availableDecomposition Temperature:No data availableViscosity:No data available

### **SECTION 10. STABILITY AND REACTIVITY:**

**Reactivity:** No dangerous reactions known under conditions of normal use.

**Chemical Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: N/A
Conditions to Avoid: N/A
Materials to Avoid: N/A
Hazardous Decomposition Products: N/A

## **SECTION 11. TOXICOLOGICAL INFORMATION:**

## Information on Likely Routes of Exposure:

Inhalation: No data available
Ingestion: No data available
Skin: No data available
Eyes: No data available

### Information on Toxicological Effects:

Acute Toxicity:

Oral LD50: No data available
Inhalation LC50: No data available
Dermal LD50: No data available
Other Information: No data available
Skin Corrosion/Irritation: No data available
Serious Eye Damage/Irritation: No data available
Respiratory or Skin Sensitization: No data available

Trade Name: SP Buffer Revision Date: 6/29/2018

Germ Cell Mutagenicity: No data available

Carcinogenicity:

IARC: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product that is present at 0.1% is identified as

probable, possible or confirmed human carcinogen by OSHA.

**Reproductive Toxicity:**No data available **Teratogenicity:**No data available

**Specific Target Organ Toxicity -**

Single Exposure:

No data available

**Specific Target Organ Toxicity -**

Repeated Exposures:

No data available

Aspiration Hazard:
Signs and Symptoms of Exposure:
No data available
Synergistic Effects:
No data available
No data available
None known.

### **SECTION 12. ECOLOGICAL INFORMATION:**

Toxicity:

Persistence and Degradability:

Bioaccumulative Potential:

Mobility in Soil:

PBT and vPvB Assessment:

Other Adverse Effects:

No data available.

No data available.

No data available.

No data available.

Trade Name: SP Buffer Revision Date: 6/29/2018

## **SECTION 13. DISPOSAL CONSIDERATIONS:**

**Product:** Disposal should be in accordance with applicable regional, national and

local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/ Personal Protection for additional handling information and protection of

employees.

Disposal must be made according to official regulations. **Contaminated Packaging:** 

## **SECTION 14. TRANSPORT INFORMATION:**

DOT: Not regulated. IMDG: Not regulated. IATA: Not regulated.

### **SECTION 15. REGULATORY INFORMATION:**

**US Federal Regulations:** 

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No ingredient regulated by RI Right to Know Act present.

Trade Name: SP Buffer Revision Date: 6/29/2018

#### **SECTION 16. OTHER INFORMATION:**

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