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:

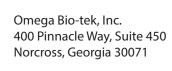
Hazard Symbol: N/A

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, CO₂, 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:

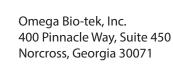
Information on Likely Routes of Exposure:

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: OB Protease Solution Revision Date: 5/19/2016

SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:

Product Name: OB Protease Solution

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: Respiratory sensitizer, irritant.

Health Hazards: Skin irritation Category 3

Respiratory sensitization Category 1

GHS Label Element:

Hazard Symbol:



Signal Word: Danger

Hazard Statements: H316 - Causes mild skin irritation.

H334 - May cause allergy or asthma symptoms or breathing difficulties

if inhaled.

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

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

protection.

P284 - In case of inadequate ventilation, wear respiratory protection.

Trade Name: OB Protease Solution Revision Date: 5/19/2016

Precautionary Statements: P304 + P340 - IF INHALED: Remove person to fresh air and keep

comfortable for breathing.

P332 + P313 - If skin irritation occurs: Get medical advice/attention. P342 + P311 - If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/physician.

Potential Health Effects:

Aggravated Medical

Conditions:

Symptoms of Overexposure:

Inhalation: May cause sensitization by inhalation.

Skin: May cause mild skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed. Ingestion may cause gastrointestinal

irritation, nausea, vomiting and diarrhea.

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

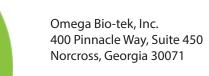
carcinogen by NTP.

SECTION 3. COMPOSITION OF/INFORMATION ON INGREDIENTS:

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

Synonyms/Common Names: Endopeptidase K

Chemical Name	CAS No.	Concentration (%)
Proteinase K	39450-01-6	1-5%
Glycerol	56-81-5	30-60%



Trade Name: OB Protease Solution Revision Date: 5/19/2016

SECTION 4. FIRST AID MEASURES:

General Advice: Move out of dangerous area. Consult a physician. Show this safety

data sheet to the doctor in attendance.

If Inhaled: If breathed in, move person into fresh air. If not breathing, give

artificial respiration. Consult a physician.

In Case of Skin Contact: Wash off with soap and plenty of water. Consult a physician.

In Case of Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and

consult a physician.

If Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth

with water. Consult a physician.

Most Important Symptoms and Effects, Acute and Delayed:

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, CO2, water spray or alcohol-resistant foam.

Special Protective Equipment for

Firefighters:

Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: N/A

Further Information:



Trade Name: OB Protease Solution Revision Date: 5/19/2016

SECTION 6. ACCIDENTAL RELEASE MEASURES:

Personal Precautions: Use personal protective equipment. Avoid aerosolization. Avoid

breathing vapors or mist. Ensure adequate ventilation. Evacuate per-

sonnel to safe areas.

Environmental Precautions: Do not let product enter drains.

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

protocols.

Methods and Materials for Containment and Cleaning Up:

Absorb on sand or vermiculite and place in closed containers for disposal. Pick up and transfer to properly labeled containers. Ensure

proper ventilation and cleaning of spill site.

SECTION 7. HANDLING AND STORAGE:

Precautions for Safe Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

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

Recommended storage temperature: 2-8°C.

Incompatible Products:

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: OB Protease Solution Revision Date: 5/19/2016

Respiratory Protection: If engineering controls do not maintain airborne concentrations

below recommended exposure limits (where applicable) or to an accepted 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:

Components with Workplace Control Parameters:

Components	CAS No.	Value	Control Parameters	Basis
Glycerol	56-81-5	PEL (Total dust)	15 mg/m ³	USA. OSHA Table Z-1 Limits for Air Contaminants
		PEL (Respirable fraction)	5 mg/m³	USA. OSHA Table Z-1 Limits for Air Contaminants
		TWA	5 mg/m3	USA. Cal/OSHA Table Z-1 Limits for Air Contaminants

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:

Form: Liquid

Color: Slighly yellow Odor: No data available **Odor Threshold:** No data available pH: No data available **Melting Point/Freezing Point:** No data available **Initial Boiling Point/Boiling Range:** No data available **Flash Point:** No data available No data available **Evaporation Rate:** Flammability (Solid, gas): No data available

Trade Name: OB Protease Solution Revision Date: 5/19/2016

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: 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: May cause sensitization by inhalation.

Skin: May cause mild skin irritation. Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed. Ingestion may cause gastrointestinal

irritation, nausea, vomiting and diarrhea.



Trade Name: OB Protease Solution Revision Date: 5/19/2016

Information on Toxicological Effects:

Acute Toxicity: Proteinase K Glycerol

Oral LD50: No data available 12,600 mg/kg (rat)
Inhalation LC50: No data available > 570 mg/m³ (rat)

Dermal LD50: No data available > 10,000 mg/kg (rabbit)

Other Information: No data available

Skin Corrosion/Irritation: No data available Mild skin irritation, 24 hrs (rabbit)
Serious Eye Damage/Irritation: No data available Mild eye irritation, 24 hrs (rabbit)

Respiratory or Skin Sensitization: No data available 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:

Synergistic Effects: No data available

Additional Information: No data available

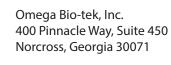
SECTION 12. ECOLOGICAL INFORMATION:

Toxicity: No data available.

Toxicity to Fish LC50: > 5,000 mg/L Carassius Auratus (goldfish)

44,000 mg/L Pimephales Promelas (fathead minnow) 67,500 mg/L Oncorhynchus Mykiss (rainbow trout)

> 100,100 mg/L Other fish



Trade Name: OB Protease Solution Revision Date: 5/19/2016

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: The product components are not classified as environmentally

hazardous. However, this does not exclude the possibility that large or

frequent spills can have a harmful or damaging effect on the

environment.

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

SECTION 15. REGULATORY INFORMATION:

US Federal Regulations:

OSHA Hazards: Respiratory sensitizer, irritant.

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: Chronic health hazard

US State Regulations:

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

Massachusetts RTK: Glycerol 56-81-5



Trade Name: OB Protease Solution Revision Date: 5/19/2016

Pennsylvania RTK: Water 7732-18-5 Glycerol 56-81-5

Rhode Island RTK: Water 7732-18-5

Glycerol 56-81-5

SECTION 16. OTHER INFORMATION:

 Issue Date:
 9/8/2014

 Revision Date:
 5/19/2016

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: OTRK Lysis Buffer Revision Date: 6/10/2018

SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:

Product Name: OTRK Lysis 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:

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: OTRK Lysis 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 _s N _s . CHNS	593-84-0	25-50%

Revision Date: 6/10/2018 Trade Name: OTRK Lysis Buffer

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, CO₂, water spray or alcohol-resistant foam.

Special Protective Equipment for

Firefighters:

Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: Carbon oxides (CO, CO₂), sulfur oxides (SOx), nitrogen oxides (NOx)

Further Information: Prevent firefighting water from entering surface water or

groundwater.

Trade Name: OTRK Lysis 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: OTRK Lysis 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: OTRK Lysis 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: OTRK Lysis 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: OTRK Lysis 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: OTRK Lysis 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: 6/10/2018

SECTION 1. IDENTIFICATION OF PRODUCT AND COMPANY:

Product Name: RNA Wash Buffer I

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: RNA Wash Buffer I 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 _s N _s . CHNS	593-84-0	25-50%

Trade Name: RNA Wash Buffer I 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

Conditions of Flammability: Not flammable or combustible.

Suitable Extinguishing Media: Dry powder, CO₃, water spray or alcohol-resistant foam.

Special Protective Equipment for

Firefighters:

Wear self-contained breathing apparatus, if necessary.

Hazardous Combustion Products: Carbon oxides (CO, CO₂), 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: 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: RNA Wash Buffer I 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: 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: 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: RNA Wash Buffer I 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 available
Additional Information: No data available

Trade Name: RNA Wash Buffer I 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: 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.

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

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

Guanidine thiocyanate 593-84-0

Water 7732-18-5

SECTION 16. OTHER INFORMATION

Rhode Island RTK:

 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, CO₂, 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:

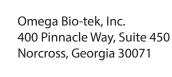
Information on Likely Routes of Exposure:

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.

