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**1. IDENTIFICATION**

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<b>Product Name</b>	Wash Buffer
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	For DNA isolation and purification
<b>Restrictions on use</b>	For laboratory use
<b>Product Numbers</b>	190406
<b>Company Identification</b>	Covaris, Inc. 14 Gill Street, Unit H Woburn, MA 01801
<b>Customer Information Number</b>	(781) 932-3959
<b>Emergency Telephone Number</b>	(800) 424-9300 (for emergencies only)
<b>Chemtrec Number</b>	(800) 424-9300
<b>Issue Date</b>	May 20, 2016
<b>Supersedes Date</b>	This is the first issue.

*Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)*

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**2. HAZARD IDENTIFICATION**

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**Hazard Classification**  
Serious eye damage/eye irritation - Category 1  
Skin corrosion/irritation - Category 1C

**Label Elements**  
Hazard Symbols



Signal Word: Danger

**Hazard Statements**  
Causes severe skin burns and eye damage.

**Precautionary Statements**

**Prevention**  
Wear protective gloves, protective clothing, eye protection and face protection.  
Wash hands thoroughly after handling.

**Response**

Immediately call a poison center or doctor/physician.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before re-use.

**Storage**

Store locked up.

**Disposal**

Dispose of contents/container in accordance with local regulation.

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**2. HAZARD IDENTIFICATION**

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**Other Hazards**

None

**Specific Concentration Limits**

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity	<10 %
Acute dermal toxicity	20 - 30 %
Acute inhalation toxicity	30 - 40 %
Acute aquatic toxicity	20 - 30 %

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

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This product is a mixture.

<b>Component</b>	<b>CAS Number</b>	<b>Concentration</b>
Water	7732-18-5	70 - 80%
Thiocyanate compound	N/A	10 - 20%
p-tertiary-Octylphenoxy polyethyl alcohol	9002-93-1	1 - 10%

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**4. FIRST- AID MEASURES**

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**Description of necessary first-aid measures****Eyes**

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

**Skin**

Wash affected area with plenty of water. Seek medical attention if symptoms persist.

**Ingestion**

Do not induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing. Obtain medical attention immediately.

**Inhalation**

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention if symptoms persist.

**Most important symptoms/effects, acute and delayed**

Aside from the information found under description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

**Indication of immediate medical attention and special treatment needed****Notes to Physicians**

Treat symptomatically.

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**5. FIRE - FIGHTING MEASURES**

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**Suitable (and unsuitable) Extinguishing Media**

Use foam, dry chemical or carbon dioxide. Use water spray for surroundings and containers.

**Specific hazards arising from the chemical**

This product may give rise to toxic gases in a fire.

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**5. FIRE - FIGHTING MEASURES**

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**Special Protective Actions for Fire-Fighters**

Wear full protective clothing and self-contained breathing apparatus.

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures**

Wear appropriate protective clothing.

**Environmental Precautions**

Prevent the material from entering drains or watercourses. Notify authorities if spill has entered watercourse or sewer or has contaminated soil or vegetation.

**Methods and materials for containment and cleaning up**

Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

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**7. HANDLING AND STORAGE**

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**Precautions for safe handling**

Wear appropriate protective equipment when handling. Use in well ventilated area. Use local exhaust ventilation. Avoid inhaling vapor. Avoid contact with eyes, skin and clothing. Keep container tightly closed when not in use.

**Conditions for safe storage**

Store between 15° and 30°C. Storage area should be: cool - dry - well ventilated - out of direct sunlight - away from sources of ignition (heat, sparks, flames, pilot lights) - away from incompatible materials (see Section 10)

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Control parameters**

Exposure limits are listed below, if they exist.

**Thiocyanate Compound**

None established.

**Appropriate engineering controls**

Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.

**Individual protection measures****Respiratory Protection**

Wear respiratory protection if there is a risk of exposure to high vapor concentrations or aerosols. A NIOSH approved full face respirator may be worn. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

**Skin Protection**

Chemical resistant gloves

**Eye/Face Protection**

Chemical goggles or safety glasses with side shields

**Body Protection**

Normal work wear.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Appearance**

<b>Physical State</b>	Liquid
<b>Color</b>	Clear
<b>Odor</b>	None
<b>Odor Threshold</b>	No data available
<b>pH</b>	7.5-7.8
<b>Specific Gravity</b>	No data available
<b>Boiling Range/Point (°C/F)</b>	No data available
<b>Melting Point (°C/F)</b>	No data available
<b>Flash Point (PMCC) (°C/F)</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Evaporation Rate (BuAc=1)</b>	No data available
<b>Solubility in Water</b>	Soluble
<b>Vapor Density (Air = 1)</b>	No data available
<b>VOC (g/l)</b>	No data available
<b>Partition coefficient (n-octanol/water)</b>	No data available
<b>Viscosity</b>	No data available
<b>Auto-ignition Temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Upper explosive limit</b>	Not applicable
<b>Lower explosive limit</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable

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**10. STABILITY AND REACTIVITY**

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**Reactivity**

No known reactivity.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**Conditions to Avoid**

Heat – high temperatures

**Incompatible Materials**

Strong oxidizing agents

**Hazardous Decomposition Products**

Oxides of carbon - nitrogen oxides - sulfur oxides - sodium oxides - hydrogen chloride gas

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**11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**Thiocyanate Compound

EC50 (daphnia magna) 42.4 mg/l 48 hr

p-tertiary-Octylphenoxy polyethyl alcohol

Oral LD50 (rat) 1800 mg/kg

Dermal LD50 (rabbit) 8000 mg/kg

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**11. TOXICOLOGICAL INFORMATION**

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**Specific Target Organ Toxicity (STOT) – single exposure**

No data available

**Specific Target Organ Toxicity (STOT) – repeat exposure**

No data available

**Serious Eye damage/Irritation**

Thiocyanate Compound: Causes serious eye damage.

p-tertiary-Octylphenoxy polyethyl alcohol: In animal studies (rabbits) this component caused moderate eye irritation.

**Skin Corrosion/Irritation**

Thiocyanate Compound: Causes skin burns.

p-tertiary-Octylphenoxy polyethyl alcohol: May cause mild skin irritation.

**Respiratory or Skin Sensitization**

No data available

**Carcinogenicity**

Not considered carcinogenic by NTP, IARC, and OSHA.

**Germ Cell Mutagenicity**

No data available

**Reproductive Toxicity**

No data available

**Aspiration Hazard**

Not an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity**Thiocyanate Compound

EC50 (daphnia magna) 42.4 mg/l 48 hr

p-tertiary-Octylphenoxy polyethyl alcohol

LC50 (fathead minnow) 8.9 mg/l 96h

EC50 (Daphnia) 26 mg/l 48h

**Mobility in soil**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**Bioaccumulative Potential**

No relevant studies identified.

**Other adverse effects**

No relevant studies identified.

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**13. DISPOSAL CONSIDERATIONS**

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**Disposal Methods**

Dispose of in accordance with all applicable local and national regulations.

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**14. TRANSPORT INFORMATION**

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Contact supplier for transport information.

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**15. REGULATORY INFORMATION**

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**United States TSCA Inventory**

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Substance Inventory.

**Canada DSL Inventory**

All ingredients in this product are listed on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt from listing.

**SARA Title III Sect. 311/312 Categorization**

Immediate (Acute)

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**16. OTHER INFORMATION**

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**Legend**

ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstracts Service  
ECHA: European Chemicals Agency  
IARC: International Agency for Research on Cancer  
NA: Denotes no information found or available  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PEL: Permissible Exposure Limit  
SDS: Safety Data Sheet  
STEL: Short Term Exposure Limit  
TLV: Threshold Limit Value

Revision Date: May 20, 2016  
Replaces: This is first issue.  
Changes made: Not applicable

**Information Source and References**

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

**Prepared By:** EnviroNet LLC.

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