1. **IDENTIFICATION**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Buffer WB3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Recommended use of the chemical and restrictions on use</strong></td>
<td></td>
</tr>
<tr>
<td>Identified uses</td>
<td>For research and development</td>
</tr>
<tr>
<td>Restrictions on use</td>
<td>For laboratory use</td>
</tr>
<tr>
<td><strong>Product Numbers</strong></td>
<td>190541</td>
</tr>
<tr>
<td><strong>Company Identification</strong></td>
<td>Covaris, Inc.</td>
</tr>
<tr>
<td></td>
<td>14 Gill Street, Unit H</td>
</tr>
<tr>
<td></td>
<td>Woburn, MA 01801</td>
</tr>
<tr>
<td><strong>Customer Information Number</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(781) 932-3959</td>
</tr>
<tr>
<td><strong>Emergency Telephone Number</strong></td>
<td>(800) 424-9300</td>
</tr>
<tr>
<td><strong>CHEMTREC Number</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Issue Date</strong></td>
<td>October 26, 2018</td>
</tr>
<tr>
<td><strong>Supersedes Date</strong></td>
<td>This is the first issue.</td>
</tr>
</tbody>
</table>

**Safety Data Sheet prepared in accordance with OSHA’s Hazard Communication Standard (29 CFR 1910.1200), the Canadian Hazardous Products Regulations (HPR) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)**

2. **HAZARD IDENTIFICATION**

**Hazard Classification**
This product is classified as not hazardous in accordance with the Globally Harmonized System of Classification and Labelling (GHS).

**Label Elements**

| Hazard Symbols  | None |

**Signal Word:** None

**Hazard Statements**

| None |

**Precautionary Statements**

**Prevention**

| None |

| Response |

| Storage |

| Disposal |

None

**Other Hazards**

| None |

**Specific Concentration Limits**

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

| Acute oral toxicity | <5% |
| Acute dermal toxicity | <5% |
| Acute inhalation toxicity | <5% |
3. **COMPOSITION/INFORMATION ON INGREDIENTS**

This product is a mixture.

This product contains no substances which, at their given concentration, are considered to be hazardous to health.

4. **FIRST- AID MEASURES**

**Description of necessary first-aid measures Eyes**
Flush the eye with plenty of water. Obtain medical attention if symptoms persist.

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

**Ingestion**
Rinse mouth with plenty of water.

**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.

5. **FIRE - FIGHTING MEASURES**

**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**
None known.

**Special Protective Actions for Fire-Fighters**
Wear full protective clothing and self-contained breathing apparatus.

6. **ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**
Wear appropriate protective clothing.

**Environmental Precautions**
Prevent the material from entering drains or watercourses.
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.

7. HANDLING AND STORAGE

Precautions for safe handling
Wear appropriate protective equipment when handling. Do not eat or drink while handling this material.

Conditions for safe storage
Store between 2° and 8°C to maintain product integrity. 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)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
Exposure limits are listed below, if they exist.

Appropriate engineering controls No specific measures necessary.

Individual protection measures
Respiratory Protection
Respiratory protection not normally required.

Skin Protection
Gloves

Eye/Face Protection
Safety glasses

Body Protection
Lab coat

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Color</th>
<th>Clear</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Odor</th>
<th>None</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Odor Threshold</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>pH</th>
<th>7.9 - 8.1</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Specific Gravity</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Boiling Range/Point (°C/F)</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Melting Point (°C/F)</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Flash Point (PMCC) (°C/F)</th>
<th>Not flammable</th>
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</table>

<table>
<thead>
<tr>
<th>Vapor Pressure</th>
<th>No data available</th>
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</table>

<table>
<thead>
<tr>
<th>Evaporation Rate (BuAc=1)</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Solubility in Water</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Vapor Density (Air = 1)</th>
<th>No data available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>VOC (g/l)</th>
<th>No data available</th>
</tr>
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</table>
10. STABILITY AND REACTIVITY

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
None known

Hazardous Decomposition Products
Oxides of carbon – sodium oxides – hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Acute Toxicity
Available data indicates this product is not expected to be acutely toxic.

Specific Target Organ Toxicity (STOT) – single exposure
Available data indicates this product is not expected to cause target organ effects after a single exposure.

Specific Target Organ Toxicity (STOT) – repeat exposure
Available data indicates this product is not expected to cause target organ effects after repeated exposure.

Serious Eye damage/Irritation
Available data indicates this product is not expected to cause eye irritation.

Skin Corrosion/Irritation
Available data indicates this product is not expected to cause skin irritation.

Respiratory or Skin Sensitization
Available data indicates this product is not expected to cause skin or respiratory sensitization.

Carcinogenicity
Not considered carcinogenic by NTP, IARC, and OSHA.

**Germ Cell Mutagenicity**
Available data indicates this product is not expected to be mutagenic.

**Reproductive Toxicity**
Available data indicates this product is not expected to cause reproductive toxicity or birth defects.

**Aspiration Hazard**
Available data indicates this product is not expected to be an aspiration hazard.

12. **ECOLOGICAL INFORMATION**

**Ecotoxicity**
No relevant studies identified.

**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.

13. **DISPOSAL CONSIDERATIONS**

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

14. **TRANSPORT INFORMATION**

Contact supplier for transport information.

15. **REGULATORY INFORMATION**

**United States TSCA Inventory**
This product contains a component that is not listed or exempted from listing on the US EPA Toxic Substance Control Act Chemical Substance Inventory. Therefore, this product is restricted to research and development purposes only.

**Canada DSL Inventory**
This product contains a component that is not listed or exempted from listing on the Domestic Substance List (DSL).

**SARA Title III Sect. 311/312 Categorization**
16. **OTHER INFORMATION**

**Legend**
- ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstracts Service
- IARC: International Agency for Research on Cancer
- N/A: Denotes no applicable 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:** October 26, 2018  
**Replaces:** This is the 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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