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**1. IDENTIFICATION**

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**Product Name** 10X SDS Shearing Buffer D2

**Recommended use of the chemical and restrictions on use**

**Identified Uses** For Research and Development Use Only

**Product Numbers** 190221

**Company Identification** Covaris, Inc.  
14 Gill Street, Unit H  
Woburn, MA 01801

**Customer Information Number** (781) 932-3959

**Emergency Telephone Number** (800) 424-9300 (for emergencies only)

**Chemtrec Number** (800) 424-9300

**Issue Date** October 31, 2013

**Supersedes Date**

*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**

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**

None

**Storage**

None

**Disposal**

None

**Other Hazards**

None

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**2. HAZARD IDENTIFICATION**

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**Specific Concentration Limits**

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

Acute oral toxicity	0%
Acute dermal toxicity	< 10%
Acute inhalation toxicity	1 - 10%
Acute aquatic toxicity	1 - 10%

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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	N.A.	90 - 99%
Sodium Dodecyl Sulfate	151-21-3	1 - 5%

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**4. FIRST- AID MEASURES**

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**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**

Not an expected route of entry.

**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**

None known.

**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.

**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. Do not eat or drink while handling this material.

**Conditions for safe storage**

Store at room temperature away from heat and direct sunlight.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Control parameters**

Exposure limits are listed below, if they exist.

**Sodium Dodecyl Sulfate**

None established.

**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**

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>	Colorless
<b>Odor</b>		None
<b>Odor Threshold</b>		No data available
<b>pH</b>		7.6
<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>		Not flammable

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Vapor Pressure</b>	No data available
<b>Evaporation Rate (BuAc=1)</b>	No data available
<b>Solubility in Water</b>	Complete
<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>	No data available
<b>Lower explosive limit</b>	No data available
<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 – sulfur oxides – sodium oxides

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**11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity**Sodium Dodecyl Sulfate

Oral LD50 (rat) 1288 mg/kg

Dermal LD50 (rabbit) >10,000 mg/kg

Inhalation LC50 (rat) 3.9 mg/l

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

Sodium Dodecyl Sulfate: May cause respiratory irritation.

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

Sodium Dodecyl Sulfate: Available data indicates this component will not cause target organ effects after repeated exposure.

**Serious Eye damage/Irritation**

Sodium Dodecyl Sulfate: Shown to be not irritating at 10% concentration in rabbit study.

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**11. TOXICOLOGICAL INFORMATION**

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**Skin Corrosion/Irritation**

Sodium Dodecyl Sulfate: Irritating in rabbit studies.

**Respiratory or Skin Sensitization**

Sodium Dodecyl Sulfate: Available data indicates this component is not a skin sensitizer.

**Carcinogenicity**

Not considered carcinogenic by NTP, IARC, and OSHA.

**Germ Cell Mutagenicity**

Sodium Dodecyl Sulfate: Negative in vivo and in vitro laboratory studies.

**Reproductive Toxicity**

Sodium Dodecyl Sulfate: No maternal toxicity and no developmental toxicity up to 300 and 600 mg/kg/day, respectively.

**Aspiration Hazard**

No data available to indicate product is an aspiration hazard.

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**12. ECOLOGICAL INFORMATION**

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**Ecotoxicity**

Sodium Dodecyl Sulfate

LC50 (Fathead minnow) 29mg/l 96h

**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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**DOT CFR 172.101 Data** Not Regulated

**UN Proper Shipping Name** Not Regulated

**UN Class** None.

**UN Number** None.

**UN Packaging Group** None.

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**14. TRANSPORT INFORMATION**

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**Classification for AIR Transportation (IATA)** Consult current IATA Regulations prior to shipping by air.  
**Environmental Hazards** Not a marine pollutant

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**15. REGULATORY INFORMATION**

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**United States TSCA Inventory**

All components of this product have been verified for the inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

**Canada DSL Inventory**

All components of this product have been verified for inclusion on the Domestic Substance List (DSL).

**WHMIS Classification**

None

This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

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

None

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**16. OTHER INFORMATION**

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**NFPA Ratings**

NFPA Code for Flammability - 0  
NFPA Code for Health - 0  
NFPA Code for Reactivity - 0  
NFPA Code for Special Hazards – None

**HMIS Ratings**

HMIS Code for Flammability - 0  
HMIS Code for Health - 0  
HMIS Code for Physical Hazard - 0  
HMIS Code for Personal Protection - See Section 8  
\*Chronic

**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

**Information Source and References**

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

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**16. OTHER INFORMATION**

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**Prepared By:** EnviroNet LLC.

The information and recommendations presented in this SDS are based on sources believed to be accurate. Covaris assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the **material** for their particular purposes. In particular, we make **NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED**, with respect to such information, and we assume no liability resulting from its use. Users should ensure that any use **or disposal** of the material is in accordance with applicable Federal, State, and local laws and regulations.

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