

## SAFETY DATA SHEET

### Total NA Tissue Lysis Buffer

#### 1. IDENTIFICATION

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<b>Product Name</b>	Total NA Tissue Lysis Buffer
<b>Recommended use of the chemical and restrictions on use</b>	
<b>Identified uses</b>	For research and development
<b>Restrictions on use</b>	For laboratory use
<b>Product Numbers</b>	190559
<b>Company Identification</b>	Covaris, Inc. 14 Gill Street, Unit H Woburn, MA 01801 (781) 932-3959
<b>Customer Information Number</b>	
<b>Emergency Telephone Number</b>	
<b>CHEMTREC Number</b>	(800) 424-9300
<b>Issue Date</b>	November 26, 2018
<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, the Canadian Hazardous Products Regulations (HPR) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)*

#### 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

**Specific Concentration Limits**

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

Acute oral toxicity                            0%

Acute dermal toxicity	0 %
Acute inhalation toxicity	35 - 45%
Acute aquatic toxicity	35 - 45%

### 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.

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### 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.

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### 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.

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### 6. ACCIDENTAL RELEASE MEASURES

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

##### Environmental Precautions

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**Total NA Tissue Lysis Buffer**

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 15° and 25°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**

**Physical State** Liquid

**Color** Clear

**Odor** None

**Odor Threshold** No data available

**pH**

8.0

**Specific Gravity** No data available

No data available

**Boiling Range/Point (°C/F)** No data available

No data available

**Melting Point (°C/F)** No data available

No data available

**Flash Point (PMCC) (°C/F)** Not flammable

Not flammable

**Vapor Pressure** No data available

No data available

**Evaporation Rate (BuAc=1)** No data available

No data available

**Solubility in Water** Complete

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

### 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 – nitrogen oxides – hydrogen chloride gas – sulfur oxides

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### 11. TOXICOLOGICAL INFORMATION

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#### 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**

relevant studies identified.

No

**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**

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).

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

None

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**16. OTHER INFORMATION**

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**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

**16. OTHER INFORMATION**

Revision Date: November 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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