

Material Safety Data Sheet

Material Name: 10X Covaris SDS Shearing Buffer

*** Section 1 - Chemical Product and Company Identification ***

Manufacturer Information

Covaris Inc.
14 Gill Street
Unit 14
Woburn, MA 01801

Phone: 781-932-3959
Fax: 781-932-8705

*** Section 2 - Hazards Identification ***

Emergency Overview

May cause eye, skin, gastrointestinal, and/or respiratory tract irritation.

Potential Health Effects: Eyes

May cause irritation.

Potential Health Effects: Skin

May cause irritation.

Potential Health Effects: Ingestion

Not considered a likely route of exposure under normal product use. May cause gastrointestinal irritation if swallowed.

Potential Health Effects: Inhalation

Not considered a likely route of exposure under normal product use. May cause respiratory tract irritation.

HMIS Ratings: Health: 1 Fire: 0 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
7732-18-5	Water	81.02
151-21-3	Sodium lauryl sulfate	10
77-86-1	Tris (hydroxymethyl) aminomethane	6.06
60-00-4	Ethylenediamine tetraacetic acid	2.92

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Flush immediately with water for at least 15 minutes. Do not rub eyes.

First Aid: Skin

For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

First Aid: Ingestion

If ingestion of a large amount does occur, seek medical attention.

First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

None

Hazardous Combustion Products

Not determined

Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Material Safety Data Sheet

Material Name: 10X Covaris SDS Shearing Buffer

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Contain the discharged material.

Clean-Up Procedures

Wear appropriate protective equipment and clothing during clean-up.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

Avoid contact with skin and eyes.

*** Section 7 - Handling and Storage ***

Handling Procedures

Wash hands after handling and before eating.

Storage Procedures

Keep this material in a cool, well-ventilated place.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Engineering Controls

Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

Personal Protective Equipment: Skin

Use impervious gloves.

Personal Protective Equipment: Respiratory

Not normally needed.

Personal Protective Equipment: General

Eye wash fountain is recommended.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Clear	Odor:	None
Physical State:	Liquid	pH:	ND
Vapor Pressure:	ND	Vapor Density:	ND
Boiling Point:	ND	Melting Point:	ND
Solubility (H2O):	ND	Specific Gravity:	ND
Evaporation Rate:	ND	VOC:	ND
Octanol/H2O Coeff.:	ND	Flash Point:	ND
Flash Point Method:	ND	Upper Flammability Limit (UFL):	ND
Lower Flammability Limit (LFL):	ND	Burning Rate:	ND
Auto Ignition:	ND		

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

This is a stable material.

Chemical Stability: Conditions to Avoid

None

Incompatibility

Not Determined

Hazardous Decomposition

Not Determined

Material Safety Data Sheet

Material Name: 10X Covaris SDS Shearing Buffer

Possibility of Hazardous Reactions

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Sodium lauryl sulfate (151-21-3)

Inhalation LC50 Rat >3900 mg/m³ 1 h; Oral LD50 Rat 1288 mg/kg; Dermal LD50 Rabbit 580 mg/kg

Tris (hydroxymethyl) aminomethane (77-86-1)

Oral LD50 Rat 5900 mg/kg

Ethylenediamine tetraacetic acid (60-00-4)

Oral LD50 Rat 1700 mg/kg

Carcinogenicity

A: General Product Information

No information available for the product.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Sodium lauryl sulfate (151-21-3)

Test & Species

96 Hr LC50 Pimephales promelas	8-12.5 mg/L [static]
96 Hr LC50 Pimephales promelas	15-18.9 mg/L [static]
96 Hr LC50 Pimephales promelas	22.1-22.8 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	4.3-8.5 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	4.62 mg/L [flow-through]
96 Hr LC50 Oncorhynchus mykiss	4.2 mg/L
96 Hr LC50 Brachydanio rerio	7.97 mg/L [flow-through]
96 Hr LC50 Brachydanio rerio	9.9-20.1 mg/L [semi-static]
96 Hr LC50 Lepomis macrochirus	4.06-5.75 mg/L [static]
96 Hr LC50 Lepomis macrochirus	4.2-4.8 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	4.5 mg/L
96 Hr LC50 Pimephales promelas	5.8-7.5 mg/L [static]
96 Hr LC50 Pimephales promelas	10.2-22.5 mg/L [semi-static]
96 Hr LC50 Pimephales promelas	6.2-9.6 mg/L
96 Hr LC50 Poecilia reticulata	13.5-18.3 mg/L [semi-static]

Conditions

fry
juvenile
adult

Material Safety Data Sheet

Material Name: 10X Covaris SDS Shearing Buffer

96 Hr LC50 Poecilia reticulata	10.8-16.6 mg/L [static]
96 Hr LC50 Cyprinus carpio	1.31 mg/L [semi- static]
72 Hr EC50 Desmodesmus subspicatus	53 mg/L
96 Hr EC50 Desmodesmus subspicatus	30 - 100 mg/L
96 Hr EC50 Pseudokirchneriella subcapitata	117 mg/L
96 Hr EC50 Pseudokirchneriella subcapitata	3.59 - 15.6 mg/L [static]
48 Hr EC50 Daphnia magna	1.8 mg/L

Ethylenediamine tetraacetic acid (60-00-4)

Test & Species

96 Hr LC50 Lepomis macrochirus	34-62 mg/L [static]
96 Hr LC50 Pimephales promelas	44.2-76.5 mg/L [static]
72 Hr EC50 Desmodesmus subspicatus	1.01 mg/L
48 Hr EC50 Daphnia magna	113 mg/L [Static]

Conditions

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

All wastes must be handled in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not Regulated

*** Section 15 - Regulatory Information ***

US Federal Regulations

Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Ethylenediamine tetraacetic acid (60-00-4)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

State Regulations

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Ethylenediamine tetraacetic acid	60-00-4	Yes	Yes	No	Yes	Yes	No

Material Safety Data Sheet

Material Name: 10X Covaris SDS Shearing Buffer

Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Sodium lauryl sulfate	151-21-3	1 %

Additional Regulatory Information

Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Water	7732-18-5	Yes	DSL	EINECS
Sodium lauryl sulfate	151-21-3	Yes	DSL	EINECS
Tris (hydroxymethyl) aminomethane	77-86-1	Yes	DSL	EINECS
Ethylenediamine tetraacetic acid	60-00-4	Yes	DSL	EINECS

* * * Section 16 - Other Information * * *

Other Information

The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.