

SAFETY DATA SHEET

Issuing Date 15-Oct-2020

Revision date 14-Feb-2024

**Revision Number** 3

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier		
Product Name	curian™ Shiga Toxin Sample Diluent Buffer/Aioprep	
Other means of identification		
Product Code(s)	7174	
Recommended use of the chemical	and restrictions on use	
Recommended use	In vitro diagnostic	
Uses advised against	No information available	
Details of the supplier of the safety data sheet		
<u>Manufacturer Address</u> Meridian Bioscience, Inc. 3471 River Hills Drive Cincinnati, Ohio 45244 (800) 343-3858		
E-mail Address	www.meridianbioscience.com	
Emergency telephone number		
Emergency Telephone	Emergency telephone CHEMTREC For US 1-800-424-9300 / (International) 1-703-527-3887	

# 2. HAZARDS IDENTIFICATION

## **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

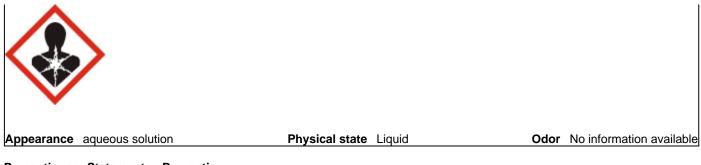
Reproductive toxicity	Category 1B

### Hazards not otherwise classified (HNOC) Not applicable

## Label elements

<u>Signal word</u> Danger

Hazard statements May damage fertility or the unborn child



# **Precautionary Statements - Prevention**

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Wear protective gloves/clothing and eye/face protection

## **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

# Precautionary Statements - Storage

Store locked up

#### Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant

Other information

Not applicable

Unknown acute toxicity

97.279 % of the mixture consists of ingredient(s) of unknown toxicity

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### **Substance**

Not applicable.

### Mixture

Chemical name	CAS No.	Weight-%	Trade secret
Sodium tetraborate	1303-96-4	0.91	*
Boric Acid	10043-35-3	0.471	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

## **Description of first aid measures**

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.

Ingestion	Rinse mouth.	
Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.	
Effects of Exposure	No information available.	
Indication of any immediate medical attention and special treatment needed		
Note to physicians	Treat symptomatically.	
5. FIRE-FIGHTING MEASURES		
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the	
Large Fire	surrounding environment. CAUTION: Use of water spray when fighting fire may be inefficient.	
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.	

Specific hazards arising from the No information available. chemical Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

# 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

Environmental precautionsSee Section 12 for additional Ecological Information.Environmental precautionsSee Section 12 for additional Ecological Information.Methods and material for containmentand cleaning upMethods for containmentPrevent further leakage or spillage if safe to do so.Methods for cleaning upPick up and transfer to properly labeled containers.Prevention of secondary hazardsClean contaminated objects and areas thoroughly observing environmental regulations.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

## Conditions for safe storage, including any incompatibilities

**Storage Conditions** 

Keep containers tightly closed in a dry, cool and well-ventilated place.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

## **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Sodium tetraborate 1303-96-4	STEL: 6 mg/m <sup>3</sup> inhalable particulate matter TWA: 2 mg/m <sup>3</sup> inhalable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 5 mg/m³
Boric Acid 10043-35-3	STEL: 6 mg/m <sup>3</sup> inhalable particulate matter TWA: 2 mg/m <sup>3</sup> inhalable particulate matter	-	-

### Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	No special protective equipment required.	
Hand protection	Wear suitable gloves.	
Skin and body protection	No special protective equipment required.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties		
Physical state	Liquid	
Appearance	aqueous solution	
Color	blue	
Odor	No information available	
Odor threshold	No information available	

Property_	Values_
pH	9.0
Melting point / freezing point	No data available
Initial boiling point and boiling rang	eNo data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Flammability Limit in Air	
Upper flammability or explosive	No data available
limits	
Lower flammability or explosive	No data available
limits	
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	No data available
Water solubility	No data available
Solubility in other solvents	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Hyphen	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive properties	No information available
Oxidizing properties	No information available
Other information	
Softening point	No information available
Molecular weight	No information available
VOC content	No information available
Liquid Density	No information available

# Remarks • Method None known None known Open cup None known None known None known

None known None known Soluble in water None known None known None known None known None known

# **10. STABILITY AND REACTIVITY**

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

# **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

#### **Product Information**

**Bulk density** 

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	Specific test data for the substance or mixture is not available.

No information available

Ingestion	Specific test data for the substance or mixture is not available.
Symptoms related to the physical,	chemical and toxicological characteristics
Symptoms	No information available.
Numerical measures of toxicity	
Acute toxicity	
5	based on chapter 3.1 of the GHS document
ATEmix (oral)	99,999.00 mg/kg
ATEmix (dermal)	99,999.00 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-dust/mist)	99,999.00 mg/l
ATEmix (inhalation-vapor)	99,999.00 mg/l
Unknown acute toxicity	97.279 % of the mixture consists of ingradient(s) of unknown toxicity

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Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium tetraborate 1303-96-4	3493 mg/kg (Rat)2660 mg/kg (Rat)	10000 mg/kg (Rabbit)	2 mg/m³ (Rat)4 h
Boric Acid 10043-35-3	2660 mg/kg ( Rat )	2000 mg/kg (Rabbit)	0.16 mg/L (Rat)4 h

# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	No information available.
Serious eye damage/eye irritation	No information available.
Respiratory or skin sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Sodium tetraborate 1303-96-4	-	Group 2A	-	Х
Boric Acid 10043-35-3	-	Group 2A	-	Х

## Legend

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)** X - Present

Reproductive toxicity	May damage fertility or the unborn child.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

# **12. ECOLOGICAL INFORMATION**

Ecotoxicity	The environmental impact of this product has not been fully investigated.			
Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Boric Acid	-	1020: 72 h Carassius	-	115 - 153: 48 h Daphnia
10043-35-3		auratus mg/L LC50		magna mg/L EC50
		flow-through		

Persistence and degradability No information available.

**Component Information** 

Chamical name		
Chemical name	Partition coefficient	
Boric Acid	-0.757	
10043-35-3		

Other adverse effects

No information available.

# **13. DISPOSAL CONSIDERATIONS**

**Disposal methods** 

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

California Hazardous Waste Status This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste Status	
Sodium tetraborate 1303-96-4	Toxic	
Boric Acid 10043-35-3	Toxic	

# 14. TRANSPORT INFORMATION

DOT

Not regulated

15. REGULATORY INFORMATION				
International Inventories	International Inventories			
TSCA	Complies			
DSL/NDSL	Complies			
EINECS/ELINCS	-			
ENCS	-			
IECSC	Complies			

KECL	Complies
PICCS	Complies
AIIC	Complies

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories	
Acute health hazard	No
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

## CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

#### **US State Regulations**

This product may contain substances regulated by state right-to-know regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium tetraborate 1303-96-4	Х	X	Х
Boric Acid 10043-35-3	Х	-	-

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

	h hazards - 0 Flammability - h hazards - * 1 Flammability - *= Chronic Health Hazard	Instability - Physical hazards -	Special hazards - Personal protection X
Prepared By	Meridian Bioscience, Inc.		
Issuing Date	15-Oct-2020		
Revision date	14-Feb-2024		
Revision Note	No information available.		

**Disclaimer** 

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.

End of Safety Data Sheet