# SAFETY DATA SHEET

<u>nanoString</u>

Buffer B

Section 1. Identification				
Product identifier	: Buffer B			
Product code	: Not applicable.			
Other means of identification	: Not available.			
Product type	: Liquid.			
Recommended use of the c	hemical and restrictions on use			
Product use	: Sample processing or preparation	n.		
Area of application	: Professional applications.			
Restrictions on use		Reason		
This product is not intended	for use in humans or animals.	-		
Supplier's details	: NanoString Technologies, Inc. 530 Fairview Avenue North, Suite 2000, Seattle, WA 98109			
	Telephone:206-378-NANO (6266 www.nanostring.com	i)		
e-mail address of person responsible for this SDS	: operations@nanostring.com			
Emergency telephone number (with hours of operation)	: 206-378-6266 (24/7)			

# Section 2. Hazards identification

Classification of the substance or mixture	: Not classified.
GHS label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
Response	: Not applicable.
Storage	: Not applicable.
Disposal	: Not applicable.
Other hazards which do not result in classification	: None known.

# Section 3. Composition/information on ingredients

#### Substance/mixture Other means of identification

: Mixture

: Not available.

### **CAS number/other identifiers**

- **CAS number** : Not applicable.
- **EC number** : Mixture.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.</li> </ul>
Inhalation	<ul> <li>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</li> </ul>
Skin contact	<ul> <li>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</li> </ul>
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

Potential acute health e	ffects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
<u>Over-exposure signs/sy</u>	<u>mptoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate I	nedical attention and special treatment needed, if necessary
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub> .
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide Thermal decomposition can lead to release of irritating gases and vapors.
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	<ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.</li> </ul>

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures				
For non-emergency personnel	o action shall be taken involving any personal risk or without suitable training vacuate surrounding areas. Keep unnecessary and unprotected personnel f ntering. Do not touch or walk through spilled material. Put on appropriate pe rotective equipment.	rom		
For emergency responders	specialized clothing is required to deal with the spillage, take note of any formation in Section 8 on suitable and unsuitable materials. See also the formation in "For non-emergency personnel".			
Environmental precautions	void dispersal of spilled material and runoff and contact with soil, waterways, rains and sewers. Inform the relevant authorities if the product has caused nvironmental pollution (sewers, waterways, soil or air).			
Methods and materials for co	iment and cleaning up			
Small spill	top leak if without risk. Move containers from spill area. Dilute with water an o if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry aterial and place in an appropriate waste disposal container. Dispose of via censed waste disposal contractor.			
Large spill	top leak if without risk. Move containers from spill area. Prevent entry into s ater courses, basements or confined areas. Wash spillages into an effluent eatment plant or proceed as follows. Contain and collect spillage with non- ombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous nd place in container for disposal according to local regulations (see Section ispose of via a licensed waste disposal contractor. Note: see Section 1 for mergency contact information and Section 13 for waste disposal.	earth		

# Section 7. Handling and storage

Precautions for safe handling		
Protective measures	Put on appropriate personal protective equipment (see Section 8).	
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material i handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.	.S
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Keep container tightly closed and store recommended temperature. Keep container tightly closed and sealed until ready use. Containers that have been opened must be carefully resealed and kept up to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incomparate materials before handling or use.	y for right

### Section 8. Exposure controls/personal protection

#### **Control parameters**

**Occupational exposure limits** 

No exposure limit value known.

#### **Biological exposure indices**

None known.

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some

cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures	
Hygiene measures :	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection :	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection :	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: Nitrile rubber. thickness: 5 mm Breakthrough time: 1 hour
Body protection :	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection :	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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## Section 8. Exposure controls/personal protection

### **Respiratory protection**

÷ Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

<u>Appearance</u>								
Physical state	1	Liquid.						
Color	:	Clear.						
Odor	:	Odorless.						
Odor threshold	:	Not available.						
рН	:	Not available.						
Melting point/freezing point	:	Not available.						
Boiling point, initial boiling point, and boiling range	:	Not applicable.						
Flash point	1	Not applicable.						
Evaporation rate	:	Not available.						
Flammability	:	Not available.						
Lower and upper explosion limit/flammability limit	:	Not available.						
Vapor pressure	1		Vap	or Pres	sure at 20°C	Vapor pressure at 50°C		
		Ingredient name	mm H	g kPa	Method	mm Hg	kPa	Method
		water	17.5	2.3		92.258	12.3	
Relative vapor density	:	Not available.			<b> </b>			
Relative density	1	Not available.						
Solubility(ies)	:	Media Result						
		water		Easily so	luble			
Miscible with water		Yes.		,				
Partition coefficient: n- octanol/water	:	Not applicable.						
Auto-ignition temperature	1	Not available.						
Decomposition temperature	:	Not available.						
Viscosity	:	Not available.						
Flow time (ISO 2431)	:	Not available.						
Particle characteristics								
Median particle size	÷	Not applicable.						
Other information								
Physical/chemical properties comments	:	No additional inform	ation.					

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

Information on toxicological effects					
Acute toxicity					
<b>Conclusion/Summary</b>	: Not available.				
Irritation/Corrosion					
Conclusion/Summary					
Skin	: Not available.				
Eyes	: Not available.				
Respiratory	: Not available.				
Sensitization					
Conclusion/Summary					
Skin	: Not available.				
Respiratory	: Not available.				
Mutagenicity					
<b>Conclusion/Summary</b>	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
Teratogenicity					
Conclusion/Summary	: Not available.				
Specific target organ toxicity (single exposure)					
Not available.					
Specific target organ to	<u> </u>				
Not available.					
Aspiration hazard					
Not available.					
Information on the likely	: Not available.				

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routes of exposure

: 2023/11/08

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# Section 11. Toxicological information

Potential acute health effects	2			
Eye contact	:	No known significant effects or critical hazards.		
Inhalation	:	No known significant effects or critical hazards.		
Skin contact	:	No known significant effects or critical hazards.		
Ingestion	:	No known significant effects or critical hazards.		
Symptoms related to the phy	vsic	cal, chemical and toxicological characteristics		
Eye contact	:	No specific data.		
Inhalation	1	No specific data.		
Skin contact	:	No specific data.		
Ingestion	1	No specific data.		
Short term exposure Potential immediate effects		and also chronic effects from short and long term exposure Not available.		
Potential delayed effects		Not available		
Long term exposure	1			
Potential immediate effects	:	Not available.		
Potential delayed effects	1	Not available.		
Potential chronic health effects				
General	:	No known significant effects or critical hazards.		
Carcinogenicity	:	No known significant effects or critical hazards.		
Mutagenicity	:	No known significant effects or critical hazards.		
Reproductive toxicity	:	No known significant effects or critical hazards.		

#### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

### Section 12. Ecological information

### **Toxicity**

**Conclusion/Summary** : Not available.

Persistence and degradability

**Conclusion/Summary** : Not available.

### **Bioaccumulative potential**

Not available.

### <u>Mobility in soil</u>

Soil/water partition coefficient (Koc)

: Not available.

## Section 12. Ecological information

**Other adverse effects** 

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

	UN	IMDG	ΙΑΤΑ		
UN number	Not regulated.	Not regulated.	Not regulated.		
UN proper shipping name	-	-	-		
Transport hazard class(es)	-	-	-		
Packing group	-	-	-		
Environmental hazards	No.	No.	No.		

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

### Section 15. Regulatory information

### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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# Section 16. Other information

<u>History</u>	
Date of issue/Date of revision	: 2023/11/08
Date of previous issue	: No previous validation
Version	: 1
Prepared by	: Sphera Solutions
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient N/A = Not available MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations</li> </ul>

### Procedure used to derive the classification

	Classification	Justification	
Not classified.			
References	: GHS - Globally Harmonized System of Classificatio International transport regulations	: GHS - Globally Harmonized System of Classification and Labeling of Chemicals International transport regulations	

### ✓ Indicates information that has changed from previously issued version.

### Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.