

## Safety Data Sheet



### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

**Product Name** • Custom Protoscript II 10X Reaction Primer Mix

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified use(s)** • This product is for research and development only

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer** • NanoString Technologies  
530 Fairview Avenue North  
Seattle, WA 98109  
United States  
www.nanostring.com  
safetycommittee@nanostring.com

**Telephone (General)** • 206.378.NANO (6266)

#### 1.4 Emergency telephone number

**Manufacturer** • 206.378.NANO (6266)

### Section 2: Hazards Identification

#### EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

#### 2.1 Classification of the substance or mixture

**CLP** • Not classified

#### 2.2 Label Elements

**CLP**  
**Hazard statements** • No label element(s) required

#### 2.3 Other Hazards

**CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.

#### UN GHS Revision 4

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Fourth Revised Edition

#### 2.1 Classification of the substance or mixture

**UN GHS** • Not classified

## 2.2 Label elements

**UN GHS**

**Hazard statements** • No label element(s) required

**Precautionary statements**

## 2.3 Other hazards

**UN GHS** • According to the Globally Harmonized System for Classification and Labeling (GHS) this product is not considered hazardous

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## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

**OSHA HCS 2012** • Not classified

### 2.2 Label elements

**OSHA HCS 2012**

**Hazard statements** • No label element(s) required

### 2.3 Other hazards

**OSHA HCS 2012** • This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

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## Canada

According to: WHMIS 2015

### 2.1 Classification of the substance or mixture

**WHMIS 2015** • Not classified

### 2.2 Label elements

**WHMIS 2015**

**Hazard statements** • No label element(s) required

**Precautionary statements**

### 2.3 Other hazards

**WHMIS 2015** • In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

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## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

- Material does not meet the criteria of a substance.

### 3.2 Mixtures

- The product contains no substances which at their given concentration, are considered to be hazardous to health.
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## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation**                      • Remove to fresh air.
- Skin**                                • Wash skin with soap and water.
- Eye**                                 • Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
- Ingestion**                        • Clean mouth with water and drink afterwards plenty of water.

### 4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

- Notes to Physician**            • All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

- Suitable Extinguishing Media** • In case of fire use media as appropriate for surrounding fire.
- Unsuitable Extinguishing Media**     • CAUTION: Use of water spray when fighting fire may be inefficient.

### 5.2 Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**     • Some may burn but none ignite readily.
- Hazardous Combustion Products**        • No data available.

### 5.3 Advice for firefighters

- Move containers from fire area if you can do it without risk. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions**            • Ensure adequate ventilation, especially in confined areas. Do not walk through spilled material. Wear appropriate protective clothing.
- Emergency Procedures**        • Keep unauthorized personnel away. Stay upwind.

### 6.2 Environmental precautions

- Avoid run off to waterways and sewers.

### 6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures**     • Stop leak if you can do it without risk.  
SMALL LIQUID SPILLS: Take up with sand, earth or other non-combustible absorbent material.  
LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

Pick up and transfer to properly labeled containers.  
This material and its container must be disposed of as hazardous waste.

## 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

- Use good safety and industrial hygiene practices.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

- Keep only in the original container.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

#### Exposure Limits/Guidelines

- No applicable exposure limits available for product or components.

### 8.2 Exposure controls

#### Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Personal Protective Equipment

##### Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

##### Eye/Face

- Wear face shield and eye protection.

##### Skin/Body

- Wear long sleeves and/or protective coveralls. Wear appropriate gloves.

#### Environmental Exposure Controls

- Follow best practice for site management and disposal of waste. Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Colorless liquid with no odor.
Color	Colorless	Odor	Odorless
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	pH	8.3
Specific Gravity/Relative Density	Data lacking	Water Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			

Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
<b>Flammability</b>			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
<b>Environmental</b>			
Octanol/Water Partition coefficient	Data lacking		

## 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Can react briskly with oxidizers - danger of explosion.

### 10.4 Conditions to avoid

- Incompatible materials. Ignition sources. Excess heat.

### 10.5 Incompatible materials

- Strong oxidizing agents.

### 10.6 Hazardous decomposition products

- Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon monoxide. Carbon dioxide (CO<sub>2</sub>)

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Skin corrosion/Irritation	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Serious eye damage/Irritation	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
	EU/CLP • Data lacking

<b>Skin sensitization</b>	UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>Respiratory sensitization</b>	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>Aspiration Hazard</b>	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>Carcinogenicity</b>	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>Germ Cell Mutagenicity</b>	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>Toxicity for Reproduction</b>	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>STOT-SE</b>	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
<b>STOT-RE</b>	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking

## Potential Health Effects

### Inhalation

- Acute (Immediate)** • Avoid breathing vapors or mists. May cause irritation of respiratory tract.
- Chronic (Delayed)** • No data available

### Skin

- Acute (Immediate)** • No data available
- Chronic (Delayed)** • Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or cracking.

### Eye

- Acute (Immediate)** • Redness. May cause slight irritation.
- Chronic (Delayed)** • No data available

### Ingestion

- Acute (Immediate)** • May cause drowsiness or dizziness. Ingestion causes burns of the upper digestive and respiratory tracts. Symptoms include burning sensation, coughing, wheezing, shortness of breath, headache, nausea, and vomiting.
- Chronic (Delayed)** • No data available

## Section 12 - Ecological Information

### 12.1 Toxicity

	CAS	
Custom Protoscript II 10X Reaction Primer Mix	NDA	<p><b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Oncorhynchus mykiss</i> 6800 mg/L Comments: Potassium Acetate (127-08-2)</p> <p><b>Aquatic Toxicity-Crustacea:</b> 24 Hour(s) EC50 Water Flea <i>Daphnia magna</i> 7170 mg/L Comments: Potassium Acetate (127-08-2)</p>

- 7.97 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

### 12.2 Persistence and degradability

- Material data lacking.

### 12.3 Bioaccumulative potential

- Material data lacking.

### 12.4 Mobility in Soil

- Material data lacking.

### 12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

### 12.6 Other adverse effects

- No studies have been found.

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

#### Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

#### Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
TDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	NDA

### 14.6 Special precautions for user

- None specified.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Data lacking.

## Section 15 - Regulatory Information

## 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • None

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## Section 16 - Other Information

**Revision Date** • 15/June/2017

**Preparation Date** • 15/June/2017

**Disclaimer/Statement of Liability** • The information herein is given in good faith but no warranty, expressed or implied, is made.