# **SAFETY DATA SHEET**

nanoString

Catalase

Section 1. Identif	cation	
GHS product identifier	: Catalase	
Product code	: Not applicable	
Other means of identification	: Not applicable.	
Product type	: Solid.	
Relevant identified uses of	the substance or mixture and uses advised against	
Product use	: For research use only. Not for use in diagnostic procedures.	
Area of application	: Professional applications.	
Uses advised against	Reason	
This product is not intended f	or 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	
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. Hazard	Is identification	
OSHA/HCS status	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.	
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.	
Hazards not otherwise classified	: None known.	

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### Section 3. Composition/information on ingredients

#### Substance/mixture

: Substance

- Other means of identification
- : Not applicable.

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

#### **CAS** number

Ingredient name	Other names	%	CAS number
Component A	Proprietary	100	Proprietary

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

### 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	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
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/e	effects, acute and delayed
Potential acute health effe	<u>cts</u>
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.
Over-exposure signs/symp	<u>otoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Indication of immediate med	dical attention and special treatment needed, if necessary
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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)

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### Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: No specific fire or explosion hazard.
Hazardous thermal decomposition products	<ul> <li>Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides Thermal decomposition can lead to release of irritating gases and vapors.</li> </ul>
	merinal decomposition can lead to release of initiating 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, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ntainment and cleaning up
Small spill	: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

Precautions for safe handling	1
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 is 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.

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### Section 7. Handling and storage

Conditions for safe storage,	1	Store in accordance with local regulations. Keep container tightly closed and store at
including any		recommended temperature. Keep container tightly closed and sealed until ready for use.
incompatibilities		Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
Component A	None.

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 comply with the requirements of environmental protection legislation. In some case fume scrubbers, filters or engineering modifications to the process equipment will b necessary to reduce emissions to acceptable levels.	es,

Individual protection measu		
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.	3
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: Latex gloves./Vinyl gloves.	
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.	
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 respirator protection program to ensure proper fitting, training, and other important aspects of use.	

### Section 9. Physical and chemical properties

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

Appearance					
Physical state	:	Solid.			
Color	:	Colorless.			
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	:	Not applicable.			
Evaporation rate	4	Not available.			
Flammability	4	Not available.			
Lower and upper explosion limit/flammability limit	1	Not applicable.			
Vapor pressure	4	Not available.			
Relative vapor density	4	Not applicable.			
Relative density	4	Not available.			
Density	÷	Not available.			
Solubility(ies)	4	Media	Result		
		cold water hot water	Easily soluble Easily soluble		
Miscible with water	:	Yes.	·		
Partition coefficient: n- octanol/water	:	Not applicable.			
Auto-ignition temperature	1	Not applicable.			
Decomposition temperature	1	Not available.			
SADT	1	Not available.			
Viscosity	1	Not applicable.			
Flow time (ISO 2431)	1	Not available.			
Particle characteristics					
Median particle size	1	Not available.			
Other information					
Physical/chemical properties comments	:	No additional information.			

## 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.

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Section 10. Stabil	ity and rea	activity			
Conditions to avoid	: No specific	data.			
Incompatible materials	: Reactive or	incompatible with the foll	owing materials: oxidizing	g materials.	
Hazardous decomposition products	: Under norm not be prod	nal conditions of storage a uced.	nd use, hazardous deco	mposition products	should
Section 11. Toxic	ological ir	nformation			
Information on toxicological	•				
Acute toxicity Not available.					
Irritation/Corrosion Not available.					
Sensitization Not available.					
<u>Mutagenicity</u> Conclusion/Summary	: Not availab	le.			
Carcinogenicity Conclusion/Summary <u>Reproductive toxicity</u>	: Not availab	le.			
Conclusion/Summary Teratogenicity	: Not availab	le.			
Conclusion/Summary	: Not availab	le.			
Specific target organ toxici Not available.	ity (single expos	<u>sure)</u>			
Specific target organ toxici Not available.	ity (repeated ex	<u>posure)</u>			
Aspiration hazard Not available.					
Information on the likely routes of exposure	: Not availab	le.			
Potential acute health effect	<u>s</u>				
Eye contact	: No known s	significant effects or critica	l hazards.		
Inhalation	: No known s	significant effects or critica	l hazards.		
Skin contact		significant effects or critica			
Ingestion	: No known s	significant effects or critica	l hazards.		
Symptoms related to the phy	ysical, chemical	l and toxicological chara	<u>icteristics</u>		
Eye contact	: No specific	data.			
Inhalation	: No specific	data.			
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### Section 11. Toxicological information

Skin contact	: No specific data.
Ingestion	: No specific data.

Delayed and immediate effec	and also chronic effects from short and long term expos	<u>sure</u>
<u>Short term exposure</u>		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Long term exposure		
Potential immediate effects	Not available.	
Potential delayed effects	Not available.	
Potential chronic health effe	<u>s</u>	
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 N/A

### Section 12. Ecological information

#### **Toxicity**

**Conclusion/Summary** : Not available.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

#### Other adverse effects : No known significant effects or critical hazards.

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### 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

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

**Additional information** 

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

U.S. Federal regulations	.,	OR Exempt/Partial ex inventory (TSCA 8t	emption: Not determined			
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed		,			
Clean Air Act Section 602 Class I Substances	: Not listed					
Clean Air Act Section 602 Class II Substances	: Not listed					
DEA List I Chemicals (Precursor Chemicals)	: Not listed					
DEA List II Chemicals (Essential Chemicals)	: Not listed					
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### Section 15. Regulatory information

#### SARA 302/304

<b>Composition/information on ingredients</b>	

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312 Classification

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: Not applicable.

Composition/information on ingredients

No products were found.

<u>SARA 313</u>	
Not applicable.	
State regulations	
Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.
<u>California Prop. 65</u>	

This product does not require a Safe Harbor warning under California Prop. 65.

#### 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.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

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### Section 16. Other information



#### Procedure used to derive the classification

	Classification	Justification	
Not classified.			
<u>History</u>		<b>!</b>	
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Version	: 1		
Prepared by	: Sphera Solutions		
Key to abbreviations	: ATE = Acute Toxicity Estimate AMP = Acceptable maximum peak above the a 8-hr shift BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classif IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goo LogPow = logarithm of the octanol/water partiti MARPOL = International Convention for the Pr modified by the Protocol of 1978. ("Marpol" = r N/A = Not available UN = United Nations	fication and Labelling of Chemicals ods ion coefficient evention of Pollution From Ships, 1973 as	
References	HCS (U.S.A.)- Hazard Communication Standard International transport regulations		

**V** Indicates information that has changed from previously issued version.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.

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