Safety Data Sheet



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

1.1 Product identifier

Product NameSynonymsNucleic Acid StainSYTO 13 Nucleic Acid Stain

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

Relevant identified use(s)

· Identification of Regions of Interest on Tissue Slides

Use(s) advised against

• This product is not intended for use in humans or animals.

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 operations@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

CLPNot 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

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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

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.

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).

Section 3 - Composition/Information on Ingredients

3.1 Substances

· Material does not meet the criteria of a substance.

3.2 Mixtures

	Composition						
Chemical Identifiers		%	LD50/LC50	Classifications According to Regulation/Directive	Comments		
Component A	CAS:67-68-5 EC Number:200- 664-3	0.4%	Ingestion/Oral-Rat LD50 • 14500 mg/kg Inhalation-Rat LC50 • >1600 mg/m³ 4 Hour(s)	EU CLP: Eye Irrit. 2, H319 UN GHS Revision 4: Flam. liq. 4; Eye Irrit. 2; Skin Irrit. 3 OSHA HCS 2012: Flam. Liq. 4; Eye Irrit. 2 WHMIS 2015: Flam. Liq. 4; Eye Irrit. 2	NDA		
Sodium azide	CAS:26628-22-8	< 0.05%	Ingestion/Oral-Rat LD50 • 27 mg/kg Skin-Rabbit LD50 • 20 mg/kg	EU CLP: Union workplace exposure limit OSHA HCS 2012: Exposure limit	NDA		

See Section 16 for full text of H-statements.

Section 4 - First Aid Measures

4.1 Description of first aid measures

 Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.

In case of contact with substance, immediately flush skin with running water for at

least 20 minutes.

In case of contact with substance, immediately flush eyes with running water for at

least 20 minutes.

 If swallowed, rinse mouth with water (only if the person is conscious) If large quantities Ingestion are swallowed, call a physician immediately.

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

Inhalation

Skin

Eye

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 • LARGE FIRE: Water spray, fog or regular foam.

SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media

No data available.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Some may burn but none ignite readily.

Hazards Hazardous Combustion

No data available.

Products

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

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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

· Ventilate enclosed areas. Do not walk through spilled material. Use appropriate Personal Protective Equipment (PPE)

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 SPILLS: Take up with sand or other non-combustible absorbent material and

place into containers for later disposal.

LARGE SPILLS: Dike far ahead of liquid spill for later disposal.

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

· Handle in accordance with good industrial hygiene and safety practice. Wear recommended Personal Protective Equipment when handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Keep container tightly closed and store at recommended temperature.

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				
	Result	ACGIH	NIOSH		
Sodium azide (26628-22-8)	Ceilings	0.29 mg/m3 Ceiling (as Sodium azide); 0.11 ppm Ceiling (as Hydrazoic acid vapor)	0.1 ppm Ceiling (as HN3); 0.3 mg/m3 Ceiling (as NaN3)		

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 protective eyewear (goggles, face shield, or safety glasses).

Skin/Body

No protective clothing expected to be needed.

Environmental Exposure

Follow best practice for site management and disposal of waste.

Controls Preparation Date: 09/November/2018

Revision Date: 09/November/2018

Format: EU CLP/REACH Language: English (US) EU CLP, UN GHS Revision 4, OSHA HCS 2012, WHMIS

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene NIOSH = National Institute of Occupational Safety and Health

Section 9 - Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Light green liquid with no odor.
Color	Light green.	Odor	Odorless
Odor Threshold	Data lacking		
General Properties	•	•	•
Boiling Point	Data lacking	Melting Point/Freezing Point	Data lacking
Decomposition Temperature	Data lacking	рН	Data lacking
Specific Gravity/Relative Density	Data lacking	Water Solubility	Soluble 100 %
Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Data lacking	UEL	Data lacking
LEL	Data lacking	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental	•	•	-
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

10.3 Possibility of hazardous reactions

· Hazardous polymerization will not occur.

10.4 Conditions to avoid

No data available.

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 oxides.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

		Components
Component A (0.4%)	67 - 68 -5	5 5 7 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1

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
Skin sensitization	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Respiratory sensitization	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Aspiration Hazard	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
	EU/CLP • Data lacking

Carcinogenicity	UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Germ Cell Mutagenicity	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
Toxicity for Reproduction	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
STOT-SE	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking
STOT-RE	EU/CLP • Data lacking UN GHS 4 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking

Potential Health Effects

Inhalation

Acute (Immediate)

Chronic (Delayed)

Skin

Acute (Immediate)

Chronic (Delayed)

Eye

Acute (Immediate)

Chronic (Delayed)

Ingestion

Acute (Immediate)

Chronic (Delayed)

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

- · Under normal conditions of use, no health effects are expected.
- · No data available.
- Under normal conditions of use, no health effects are expected.
- · No data available.
- Under normal conditions of use, no health effects are expected.
- · No data available.
- Under normal conditions of use, no health effects are expected.
- · No data available.

Section 12 - Ecological Information

12.1 Toxicity

· Material data lacking.

12.2 Persistence and degradability

· Material data lacking.

12.3 Bioaccumulative potential

Preparation Date: 09/November/2018 Revision Date: 09/November/2018 · 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

State Right To Know					
Component	CAS	MA	NJ	PA	
Component A	67-68-5	No	Yes	No	
Sodium azide	26628-22-8	Yes	Yes	Yes	

	Inventory					
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Component A	67-68-5	Yes	No	Yes	No	Yes
Sodium azide	26628-22-8	Yes	No	Yes	No	Yes

Canada

d obox		
Labor Canada - WHMIS 1988 - Classifications of Substances		
Sodium azide	26628-22-8	D1A
Component A	67-68-5	B3
Canada - WHMIS 1988 - Ingredient Disclosure List		
Sodium azide	26628-22-8	1 %
Component A	67-68-5	1 %
Environment		
Canada - CEPA - Priority Substances List		
Sodium azide	26628-22-8	Not Listed
Component A	67-68-5	Not Listed
United States		
Labor		
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
Sodium azide	26628-22-8	Not Listed
Component A	67-68-5	Not Listed
U.S OSHA - Specifically Regulated Chemicals		
Sodium azide	26628-22-8	Not Listed
Component A	67-68-5	Not Listed
Environment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
Sodium azide	26628-22-8	Not Listed
Component A	67-68-5	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		4000 lb final DO: 454 km final
Sodium azide	26628-22-8	1000 lb final RQ; 454 kg final RQ
Component A	67-68-5	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities		
Sodium azide	26628-22-8	Not Listed
Component A	67-68-5	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
Sodium azide	26628-22-8	1000 lb EPCRA RQ
Component A	67-68-5	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
		500 lb TPQ (this material is a
Sodium azide	26628-22-8	reactive solid, the TPQ does not default to 10000 pounds
		for non-powder, non-molten, non-solution form)
Component A	67-68-5	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting		
Sodium azide	26628-22-8	1.0 % de minimis concentration
Component A	67-68-5	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing		

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Sodium azide	26628-22-8	Not Listed
Component A	67-68-5	Not Listed

United States - California

Environment U.S California - Proposition 65 - Carcinogens List			
Sodium azide	26628-22-8	Not Listed	
Component A	67-68-5	Not Listed	
U.S California - Proposition 65 - Developmental Toxicity			
Sodium azide	26628-22-8	Not Listed	
Component A	67-68-5	Not Listed	
U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)			
Sodium azide	26628-22-8	Not Listed	
Component A	67-68-5	Not Listed	
U.S California - Proposition 65 - No Significant Risk Levels (NSRL)			
Sodium azide	26628-22-8	Not Listed	
Component A	67-68-5	Not Listed	
U.S California - Proposition 65 - Reproductive Toxicity - Female			
Sodium azide	26628-22-8	Not Listed	
Component A	67-68-5	Not Listed	
U.S California - Proposition 65 - Reproductive Toxicity - Male			
Sodium azide	26628-22-8	Not Listed	
Component A	67-68-5	Not Listed	

15.2 Chemical Safety Assessment

· No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

• H319 - Causes serious eye irritation

Revision Date

09/November/2018

Preparation Date

Disclaimer/Statement of

• 09/November/2018

Liability Key to abbreviations • The information herein is given in good faith but no warranty, expressed or implied, is made.

NDA = No Data Available