

Safety Data Sheet



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

1.1 Product identifier

Product Name • **Sprint Reagent C**

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

Relevant identified use(s) • Immobilize and protect molecular barcodes for scanning

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

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 3

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

2.1 Classification of the substance or mixture

UN GHS

- Skin Mild Irritation 3

2.2 Label elements

UN GHS

WARNING

Hazard statements • Causes mild skin irritation

Precautionary statements

Response • If skin irritation occurs: Get medical advice/attention.

2.3 Other hazards

UN GHS

- According to the Globally Harmonized System for Classification and Labeling (GHS) this product is 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.
-

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 Name | Identifiers | % | LD50/LC50 | Classifications According to Regulation/Directive | Comments |
| Component A | CAS:77-86-1 EC Number:201-064-4 | 6% TO 9% | Ingestion/Oral-Rat LD50 • >3000 mg/kg | EU CLP: Skin Irrit. 2, H315 UN GHS Revision 3: Skin Irrit. 2 OSHA HCS 2012: Skin Irrit. 2 WHMIS 2015: Skin Irrit. 2 | NDA |
| Component B | CAS:280-57-9 EINECS:205-999-9 | 1% | Ingestion/Oral-Rat LD50 • 1400 mg/kg | EU CLP: Eye Irrit. 2, H319; Acute Tox. 4, H302; Skin Irrit. 2, H315 UN GHS Revision 3: Eye Irrit. 2; Acute Tox. 4 (orl); Skin Irrit. 2 OSHA HCS 2012: Eye Irrit. 2; Acute Tox. 4 (orl); Skin Irrit. 2 WHMIS 2015: Eye Irrit. 2; Acute Tox. 4 (orl); Skin Irrit. 2 | NDA |
| Sodium azide | CAS:26628-22-8 EC Number:247-852-1 EU Index:011-004-00-7 | 0.01% TO 0.05% | Ingestion/Oral-Rat LD50 • 27 mg/kg Inhalation-Rat LC50 • 37 mg/m ³ Skin-Rabbit LD50 • 20 mg/kg | EU CLP: Community workplace exposure limit OSHA HCS 2012: Exposure limits | NDA |

See Section 16 for full text of H-statements.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

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

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.

Ingestion

- If swallowed, rinse mouth with water (only if the person is conscious) If large quantities 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

- 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 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

- 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 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

- Wear appropriate gloves.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

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 | 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 | 7.6 to 7.9 |
| 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 | | |
| 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

- No data available.

10.6 Hazardous decomposition products

- No data available.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

| Components | | |
|------------------------|----------|---|
| Component A (6% TO 9%) | 77-86-1 | Acute Toxicity: Ingestion/Oral-Rat LD50 • >3000 mg/kg; Irritation: Skin-Rabbit • 500 mg • Severe irritation; Skin-Rabbit • 25 % • Moderate irritation |
| Component B (1%) | 280-57-9 | Acute Toxicity: Ingestion/Oral-Rat LD50 • 1400 mg/kg; <i>Behavioral:Ataxia; Lungs, Thorax, or Respiration:Respiratory depression;</i> Irritation: Eye-Rabbit • 25 mg • Moderate irritation; Skin-Rabbit • 2500 µg-Open • Mild irritation |

| GHS Properties | Classification |
|-------------------------------|---|
| Acute toxicity | EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking |
| Skin corrosion/Irritation | EU/CLP • Data lacking UN GHS 3 • Skin Mild Irritation 3 OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking |
| Serious eye damage/Irritation | EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking |
| Skin sensitization | EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking |
| Respiratory sensitization | EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking |
| Aspiration Hazard | EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking |
| Carcinogenicity | EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking |

| | |
|----------------------------------|--|
| Germ Cell Mutagenicity | <p>EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking</p> |
| Toxicity for Reproduction | <p>EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking</p> |
| STOT-SE | <p>EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking</p> |
| STOT-RE | <p>EU/CLP • Data lacking UN GHS 3 • Data lacking OSHA HCS 2012 • Data lacking WHMIS 2015 • Data lacking</p> |

Potential Health Effects

Inhalation

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available.

Skin

- Acute (Immediate)** • Causes mild skin irritation.
- Chronic (Delayed)** • No data available.

Eye

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available.

Ingestion

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available.

Key to abbreviations

LD = Lethal Dose

Section 12 - Ecological Information

12.1 Toxicity

- Material data lacking.

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 | NDA | Not Regulated | NDA | NDA | NDA |
| TDG | NDA | Not Regulated | NDA | NDA | NDA |
| IMO/IMDG | NDA | Not Regulated | NDA | NDA | NDA |
| IATA/ICAO | NDA | Not Regulated | NDA | NDA | 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

| State Right To Know | | | | |
|---------------------|------------|-----|-----|-----|
| Component | CAS | MA | NJ | PA |
| Component B | 280-57-9 | No | No | No |
| Component A | 77-86-1 | No | No | No |
| Sodium azide | 26628-22-8 | Yes | Yes | Yes |

| Inventory | | | | | | |
|--------------|------------|------------|-------------|-----------|-----------|------|
| Component | CAS | Canada DSL | Canada NDSL | EU EINECS | EU ELNICS | TSCA |
| Component B | 280-57-9 | Yes | No | Yes | No | Yes |
| Component A | 77-86-1 | Yes | No | Yes | No | Yes |
| Sodium azide | 26628-22-8 | Yes | No | Yes | No | Yes |

Canada

Labor

Canada - WHMIS 1988 - Classifications of Substances

| | | |
|---|------------|------------|
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | D1A |
| • Component A | 77-86-1 | D2B |
| Canada - WHMIS 1988 - Ingredient Disclosure List | | |
| • Component B | 280-57-9 | 1 % |
| • Sodium azide | 26628-22-8 | 1 % |
| • Component A | 77-86-1 | Not Listed |

| | | |
|---|------------|------------|
| Environment | | |
| Canada - CEPA - Priority Substances List | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | Not Listed |
| • Component A | 77-86-1 | Not Listed |

United States

| | | |
|---|------------|------------|
| Labor | | |
| U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | Not Listed |
| • Component A | 77-86-1 | Not Listed |
| U.S. - OSHA - Specifically Regulated Chemicals | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | Not Listed |
| • Component A | 77-86-1 | Not Listed |

| | | |
|--|------------|---|
| Environment | | |
| U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | Not Listed |
| • Component A | 77-86-1 | Not Listed |
| U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | 1000 lb final RQ; 454 kg final RQ |
| • Component A | 77-86-1 | Not Listed |
| U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | Not Listed |
| • Component A | 77-86-1 | Not Listed |
| U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | 1000 lb EPCRA RQ |
| • Component A | 77-86-1 | Not Listed |
| U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | 500 lb TPQ (this material is a reactive solid, the TPQ does not default to 10000 pounds for non-powder, non-molten, |

| | | |
|--|------------|----------------------------------|
| • Component A | 77-86-1 | non-solution form) Not Listed |
| U.S. - CERCLA/SARA - Section 313 - Emission Reporting | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | 1.0 % de minimis concentration |
| • Component A | 77-86-1 | Not Listed |
| U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | Not Listed |
| • Component A | 77-86-1 | Not Listed |

United States - California

| | | |
|--|------------|------------|
| Environment | | |
| U.S. - California - Proposition 65 - Carcinogens List | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | Not Listed |
| • Component A | 77-86-1 | Not Listed |
| U.S. - California - Proposition 65 - Developmental Toxicity | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | Not Listed |
| • Component A | 77-86-1 | Not Listed |
| U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL) | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | Not Listed |
| • Component A | 77-86-1 | Not Listed |
| U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL) | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | Not Listed |
| • Component A | 77-86-1 | Not Listed |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | Not Listed |
| • Component A | 77-86-1 | Not Listed |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | | |
| • Component B | 280-57-9 | Not Listed |
| • Sodium azide | 26628-22-8 | Not Listed |
| • Component A | 77-86-1 | Not Listed |

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H302 - Harmful if swallowed

H315 - Causes skin irritation
H319 - Causes serious eye irritation

Revision Date

- 20/February/2019

Preparation Date

- 11/May/2015

Disclaimer/Statement of Liability

- The information herein is given in good faith but no warranty, expressed or implied, is made.

Key to abbreviations

NDA = No Data Available