Safety Data Sheet

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

1.1 Product identifier

Product Name: Buffers with Sodium Azide
Synonyms: Sprint Reagent B; Buffer H

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

Relevant identified use(s): Sample processing or preparation

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

2.1 Classification of the substance or mixture

CLP: Not classified

2.2 Label Elements

CLP: 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

Preparation Date: 01/May/2015
Revision Date: 20/November/2018

LBL-10663-01

Format: EU CLP/REACH Language: English (US)
EU CLP, UN GHS Revision 3, OSHA HCS 2012, WHMIS

Page 1 of 9
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

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

2.1 Classification of the substance or mixture
    WHMIS
    • Not classified

2.2 Label elements
    WHMIS
    • No label element(s) required.

2.3 Other hazards
    WHMIS
    • 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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS:26628-22-8</td>
<td></td>
<td></td>
<td>Ingestion/Oral-Rat LD50 • 27</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Buffers with Sodium Azide

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.

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**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

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>ACGIH</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide (26628-22-8)</td>
<td>0.29 mg/m3 Ceiling (as NaN3); 0.11 ppm Ceiling (vapor, as Hydrazoic acid)</td>
<td>0.1 ppm Ceiling (as HN3); 0.3 mg/m3 Ceiling (as NaN3)</td>
</tr>
</tbody>
</table>

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 Controls**

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

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**Key to abbreviations**

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

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**Section 9 - Physical and Chemical Properties**
9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Form</strong></td>
<td>Liquid</td>
</tr>
<tr>
<td><strong>Appearance/Description</strong></td>
<td>Colorless liquid with no odor.</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Colorless</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Odorless</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>Data lacking</td>
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</table>

<table>
<thead>
<tr>
<th>General Properties</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Boiling Point</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Specific Gravity/Relative Density</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Viscosity</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Oxidizing Properties:</strong></td>
<td>Data lacking</td>
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</table>

<table>
<thead>
<tr>
<th>Volatility</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flash Point</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>LEL</strong></td>
<td>Data lacking</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Octanol/Water Partition coefficient</strong></td>
<td>Data lacking</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP • Data lacking</td>
</tr>
<tr>
<td></td>
<td>UN GHS 3 • Data lacking</td>
</tr>
</tbody>
</table>
## Potential Health Effects

### Inhalation

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

### Skin

- **Acute (Immediate)**: Under normal conditions of use, no health effects are expected.
- **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.
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

<table>
<thead>
<tr>
<th></th>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
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</thead>
<tbody>
<tr>
<td>DOT</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
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<tr>
<td>TDG</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

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
Buffers with Sodium Azide

State Right To Know

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide</td>
<td>26628-22-8</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Inventory

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium azide</td>
<td>26628-22-8</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Canada

Labor
Canada - WHMIS 1988 - Classifications of Substances
- Sodium azide 26628-22-8 D1A

Canada - WHMIS 1988 - Ingredient Disclosure List
- Sodium azide 26628-22-8 1%

Environment
Canada - CEPA - Priority Substances List
- Sodium azide 26628-22-8 Not Listed

United States

Labor
U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
- Sodium azide 26628-22-8 Not Listed

U.S. - OSHA - Specifically Regulated Chemicals
- Sodium azide 26628-22-8 Not Listed

Environment
U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
- Sodium azide 26628-22-8 Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
- Sodium azide 26628-22-8 1000 lb final RQ; 454 kg final RQ

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities
- Sodium azide 26628-22-8 Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
- Sodium azide 26628-22-8 1000 lb EPCRA RQ

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
- 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, non-solution form)

U.S. - CERCLA/SARA - Section 313 - Emission Reporting
- Sodium azide 26628-22-8 1.0 % de minimis concentration

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

Preparation Date: 01/May/2015
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Buffers with Sodium Azide

• Sodium azide  26628-22-8  Not Listed

United States - California

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

15.2 Chemical Safety Assessment

• No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Revision Date  • 20/November/2018
Preparation Date  • 01/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