**Kit Name:**  GlykoPrep Rapid N-Glycan Prep with APTS, 96-ct  

**Kit PN:**  GP96NG-APTS

This product is a multi-level kit, composed of the following modules and individual chemical components:

### Kit Components

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Module Name</th>
<th>Kit Component Part Number</th>
<th>Kit Component Name</th>
<th>Kit Component Part Number</th>
<th>Kit Component Name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>GS96-RX</td>
<td>GlykoPrep Digestion Module, 96-ct</td>
<td>WS0256</td>
<td>Immobilization Reagent Set</td>
<td>WS0226</td>
<td>Denaturation Reagent, 30 ml</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>WS0255</td>
<td>Blocking Reagent, 6 ml</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WS0259</td>
<td>GlykoPrep Digestion Reagent Set, 96-ct</td>
<td>WS0229</td>
<td>Finishing Reagent, 1 ml</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>WS0276</td>
<td>25x Digestion Buffer, 0.7 ml</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>WS0278</td>
<td>AdvanceBio N-Glycanase, 300 µl</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WS0253</td>
<td>GlykoPrep Digestion (RX) Cartridges</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>GS96-APTS</td>
<td>GlykoPrep APTS Labeling Module, 96-ct</td>
<td>WS0295</td>
<td>APTS Catalyst, 325 µl</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WS0299</td>
<td>APTS Solution, 130 µl</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WS0300</td>
<td>Reductant Solution, 325 µl</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MS1160</td>
<td>Aluminum Sealing Film*</td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>GS96-C2</td>
<td>GlykoPrep APTS Cleanup Module, 96-ct</td>
<td>WS0263</td>
<td>GlykoPrep Cleanup (CU) Cartridges</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WS0301-GP</td>
<td>5x APTS Sample Load Buffer, 48 ml</td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MS1160</td>
<td>Aluminum Sealing Film*</td>
<td></td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

*(Contains only hardware, contains no chemicals)*

SDSs for each component follow this cover sheet.

### Transportation Information for the Kit:

**Proper Shipping Names:**

<table>
<thead>
<tr>
<th>DOT</th>
<th>IATA/ICAO</th>
<th>China</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Regulated</td>
<td>Not Regulated</td>
<td>UN3082</td>
</tr>
</tbody>
</table>
1 Identification

- Product identifier
  - Trade name: Denaturation Reagent; Denaturation Reagent, 24-ct
  - Article number: WS0226, WS0226-24, WS0226-GP

- Relevant identified uses of the substance or mixture and uses advised against
  - Application of the substance / the mixture: Reagents and Standards for Analytical Chemical Laboratory Use

- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:
    Agilent Technologies Australia Pty Ltd
    679 Springvale Road
    Mulgrave
    Victoria 3170, Australia
  - Email: pdl-msds_author@agilent.com
  - Phone number: 1800 802 402
  - Emergency telephone number: CHEMTREC®: +(61)-290372994

2 Hazard(s) Identification

- Classification of the substance or mixture

  ![GHS07]
  Acute Tox. 4 H302 Harmful if swallowed.
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2A H319 Causes serious eye irritation.

- Label elements
  - GHS label elements: The product is classified and labelled according to the Globally Harmonised System (GHS).
  - Hazard pictograms

  ![GHS07]

- Signal word: Warning

- Hazard-determining components of labelling:
  - guanidinium chloride

- Hazard statements
  - Harmful if swallowed.
  - Causes skin irritation.
  - Causes serious eye irritation.

- Precautionary statements
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - IF SWALLOWED: Call a doctor if you feel unwell.
  - Rinse mouth.

(Contd. on page 2)
Trade name: Denaturation Reagent; Denaturation Reagent, 24-ct;

IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
Store in a closed container.
Store away from other materials.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3 Composition and Information on Ingredients

Chemical characterisation: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:
50-01-1 guanidinium chloride 57.3%

Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

Description of first aid measures
General information:
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation: In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Call for a doctor immediately.

Information for doctor:
Most important symptoms and effects, both acute and delayed No further relevant information available.
Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
Special hazards arising from the substance or mixture No further relevant information available.
Advice for firefighters
Protective equipment: No special measures required.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Wear protective gloves / eye protection / face protection.
Environmental precautions: Do not allow to enter sewers/ surface or ground water.
Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

Handling:
Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Information about fire - and explosion protection: No special measures required.
Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed.
Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.
Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: The lists valid during the making were used as basis.
Exposure controls
Personal protective equipment:
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves Wear suitable gloves.
## 9 Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Information</td>
</tr>
<tr>
<td>· Appearance:</td>
</tr>
<tr>
<td>· Form: Liquid</td>
</tr>
<tr>
<td>· Colour: According to product specification</td>
</tr>
<tr>
<td>· Odour: Characteristic</td>
</tr>
<tr>
<td>· Odour threshold: Not determined.</td>
</tr>
<tr>
<td>· pH-value at 20 °C: 8.8</td>
</tr>
<tr>
<td>· Change in condition</td>
</tr>
<tr>
<td>· Melting point/freezing point: Undetermined.</td>
</tr>
<tr>
<td>· Initial boiling point and boiling range: 100 °C</td>
</tr>
<tr>
<td>· Flash point: Not applicable.</td>
</tr>
<tr>
<td>· Flammability (solid, gas): Not applicable.</td>
</tr>
<tr>
<td>· Decomposition temperature: Not determined.</td>
</tr>
<tr>
<td>· Auto-ignition temperature: Product is not selfigniting.</td>
</tr>
<tr>
<td>· Explosive properties: Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>· Explosion limits:</td>
</tr>
<tr>
<td>· Lower: Not determined.</td>
</tr>
<tr>
<td>· Upper: Not determined.</td>
</tr>
<tr>
<td>· Vapour pressure at 20 °C: 23 hPa</td>
</tr>
<tr>
<td>· Density at 20 °C: 0.839 g/cm³</td>
</tr>
<tr>
<td>· Relative density: Not determined.</td>
</tr>
<tr>
<td>· Vapour density: Not determined.</td>
</tr>
<tr>
<td>· Evaporation rate: Not determined.</td>
</tr>
<tr>
<td>· Solubility in / Miscibility with water: Not miscible or difficult to mix.</td>
</tr>
<tr>
<td>· Partition coefficient: n-octanol/water: Not determined.</td>
</tr>
<tr>
<td>· Viscosity:</td>
</tr>
<tr>
<td>· Dynamic: Not determined.</td>
</tr>
<tr>
<td>· Kinematic: Not determined.</td>
</tr>
<tr>
<td>· Solvent content:</td>
</tr>
<tr>
<td>· Water: 39.7 %</td>
</tr>
</tbody>
</table>
Safety Data Sheet  
according to WHS Regulations

Trade name: Denaturation Reagent; Denaturation Reagent, 24-ct;

Solids content: 59.0 %
Other information: No further relevant information available.

10 Stability and Reactivity

- Reactivity: No further relevant information available.
- Chemical stability:
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- Information on toxicological effects
  - Acute toxicity
    - LD/LC50 values relevant for classification:
      - 50-01-1 guanidinium chloride
        - Oral LD50: 475 mg/kg (rat)
      - Primary irritant effect:
        - Skin corrosion/irritation: Irritant to skin and mucous membranes.
        - Serious eye damage/irritation: Irritating effect.
        - Respiratory or skin sensitisation: No sensitising effects known.
- Additional toxicological information:
  - The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
    - Harmful
    - Irritant

12 Ecological Information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes:
    - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
    - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
13 Disposal considerations

- Waste treatment methods
  - Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - ADG, ADN, IMDG, IATA: not regulated

- UN proper shipping name
  - ADG, ADN, IMDG, IATA: not regulated

- Transport hazard class(es)
  - ADG, ADN, IMDG, IATA
    - Class: not regulated

- Packing group
  - ADG, IMDG, IATA: not regulated

- Environmental hazards:
  - Not applicable.

- Special precautions for user
  - Not applicable.

- Transport in bulk according to Annex II of Marpol and the IBC Code
  - Not applicable.

- UN "Model Regulation": not regulated

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  
  - Australian Inventory of Chemical Substances
    - All ingredients are listed.

  - Standard for the Uniform Scheduling of Medicines and Poisons
    - None of the ingredients is listed.

  - GHS label elements
    - The product is classified and labelled according to the Globally Harmonised System (GHS).

  - Hazard pictograms
    - GHS07

  - Signal word: Warning

(Contd. of page 5)
Trade name: Denaturation Reagent; Denaturation Reagent, 24-ct;

- Hazard-determining components of labelling:
  - guanidinium chloride

- Hazard statements
  - Harmful if swallowed.
  - Causes skin irritation.
  - Causes serious eye irritation.

- Precautionary statements
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - IF SWALLOWED: Call a doctor if you feel unwell.
  - Rinse mouth.
  - IF ON SKIN: Wash with plenty of soap and water.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - If eye irritation persists: Get medical advice/attention.
  - Store in a closed container.
  - Store away from other materials.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- Abbreviations and acronyms:
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
1 Identification

- **Product identifier**
- **Trade name:** Finishing Reagent
- **Article number:** WS0229, WS0229-GP
- **Relevant identified uses of the substance or mixture and uses advised against**
  - Application of the substance / the mixture: Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    Agilent Technologies Australia Pty Ltd
    679 Springvale Road
    Mulgrave
    Victoria 3170, Australia
  - **Email:** pdl-msds_author@agilent.com
  - **Phone number:** 1800 802 402
  - **Emergency telephone number:** CHEMTREC®: +(61)-290372994

2 Hazard(s) Identification

- **Classification of the substance or mixture**
  
  ! [GHS07]
  
  Skin Irrit. 2 \( \text{H315} \) Causes skin irritation.
  Eye Irrit. 2A \( \text{H319} \) Causes serious eye irritation.
  Skin Sens. 1 \( \text{H317} \) May cause an allergic skin reaction.

- **Label elements**
  - **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
  - **Hazard pictograms**

  ! [GHS07]

- **Signal word** Warning
- **Hazard statements**
  Causes skin irritation.
  Causes serious eye irritation.
  May cause an allergic skin reaction.
- **Precautionary statements**
  Avoid breathing dust/fume/gas/mist/vapours/spray.
  Wear protective gloves/protective clothing/eye protection/face protection.
  IF SWALLOWED: Call a doctor if you feel unwell.
  IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
  IF ON SKIN: Wash with plenty of soap and water.
  IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 2)
3 Composition and Information on Ingredients

- Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-19-7</td>
</tr>
</tbody>
</table>

- Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- Description of first aid measures
  - After inhalation: In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - After swallowing: If symptoms persist consult doctor.

- Information for doctor:
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire Fighting Measures

- Extinguishing media
  - Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
  - Special hazards arising from the substance or mixture: No further relevant information available.

- Advice for firefighters
  - Protective equipment: No special measures required.

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures
  - Environmental precautions:
    - Dilute with plenty of water.
    - Do not allow to enter sewers/surface or ground water.

- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Ensure adequate ventilation.

- Reference to other sections
  - See Section 7 for information on safe handling.

(Contd. on page 3)
7 Handling and Storage

· Handling:
  · Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
  · Information about fire - and explosion protection: No special measures required.
· Conditions for safe storage, including any incompatibilities
· Storage:
  · Requirements to be met by storerooms and receptacles: No special requirements.
  · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions: Keep container tightly sealed.
  · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

· Additional information about design of technical facilities: No further data; see item 7.
· Control parameters
  · Ingredients with limit values that require monitoring at the workplace:
    | 64-19-7 acetic acid |
    |---------------------|
    | NES                  |
    | Short-term value: 37 mg/m³, 15 ppm |
    | Long-term value: 25 mg/m³, 10 ppm |
    | WES                  |
    | Short-term value: 37 mg/m³, 15 ppm |
    | Long-term value: 25 mg/m³, 10 ppm |
  · Additional information: The lists valid during the making were used as basis.
  · Exposure controls
  · Personal protective equipment:
    · General protective and hygienic measures:
      Keep away from foodstuffs, beverages and feed.
      Immediately remove all soiled and contaminated clothing
      Wash hands before breaks and at the end of work.
      Avoid contact with the eyes and skin.
    · Respiratory protection:
      In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
  · Protection of hands:

    Protective gloves

    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  · Material of gloves Wear suitable gloves.
  · Penetration time of glove material
    The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
### 9 Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Information</td>
</tr>
<tr>
<td>Appearance:</td>
</tr>
<tr>
<td>- Form: Liquid</td>
</tr>
<tr>
<td>- Colour: Colourless</td>
</tr>
<tr>
<td>- Odour: Pungent</td>
</tr>
<tr>
<td>- Odour threshold: Not determined.</td>
</tr>
<tr>
<td>- pH-value: Not determined.</td>
</tr>
<tr>
<td>Change in condition</td>
</tr>
<tr>
<td>- Melting point/freezing point: Undetermined.</td>
</tr>
<tr>
<td>- Initial boiling point and boiling range: 100 °C</td>
</tr>
<tr>
<td>Flash point:</td>
</tr>
<tr>
<td>Not applicable.</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
</tr>
<tr>
<td>Not applicable.</td>
</tr>
<tr>
<td>Ignition temperature:</td>
</tr>
<tr>
<td>485 °C</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
</tr>
<tr>
<td>Product is not selfigniting.</td>
</tr>
<tr>
<td>Explosive properties:</td>
</tr>
<tr>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosion limits:</td>
</tr>
<tr>
<td>- Lower: 4 Vol %</td>
</tr>
<tr>
<td>- Upper: 17 Vol %</td>
</tr>
<tr>
<td>Vapour pressure at 20 °C:</td>
</tr>
<tr>
<td>23 hPa</td>
</tr>
<tr>
<td>Density at 20 °C:</td>
</tr>
<tr>
<td>1.00225 g/cm³</td>
</tr>
<tr>
<td>Relative density</td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>Vapour density</td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>Evaporation rate</td>
</tr>
<tr>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility in / Miscibility with water: Fully miscible.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water: Not determined.</td>
</tr>
<tr>
<td>Viscosity:</td>
</tr>
<tr>
<td>- Dynamic at 20 °C: 0.952 mPas</td>
</tr>
<tr>
<td>- Kinematic: Not determined.</td>
</tr>
<tr>
<td>Solvent content:</td>
</tr>
<tr>
<td>- Organic solvents: 10.0 %</td>
</tr>
<tr>
<td>- Water: 90.0 %</td>
</tr>
</tbody>
</table>
Safety Data Sheet
according to WHS Regulations

Revision Date: 29.04.2019
Issue Date: 24.04.2019

Trade name: Finishing Reagent

Solids content: 0.0 %

Other information: No further relevant information available.

10 Stability and Reactivity

- Reactivity: No further relevant information available.
- Chemical stability:
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- Information on toxicological effects
  - Acute toxicity
  - Primary irritant effect:
    - Skin corrosion/irritation: Irritant to skin and mucous membranes.
    - Serious eye damage/irritation: Irritating effect.
    - Respiratory or skin sensitisation: No sensitising effects known.
- Additional toxicological information:
  The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  Irritant

12 Ecological Information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes:
    Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
- Other adverse effects: No further relevant information available.
Safety Data Sheet  
according to WHS Regulations

Revision Date: 29.04.2019  
Issue Date: 24.04.2019

Trade name: Finishing Reagent

(Contd. of page 5)

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

- Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- UN-Number
  - ADG, ADN, IMDG, IATA: not regulated

- UN proper shipping name
  - ADG, ADN, IMDG, IATA: not regulated

- Transport hazard class(es)
  - ADG, ADN, IMDG, IATA: not regulated

- Class
  - ADG, IMDG, IATA: not regulated

- Packing group
  - ADG, IMDG, IATA: not regulated

- Environmental hazards: Not applicable.

- Special precautions for user Not applicable.

- Transport in bulk according to Annex II of Marpol and the IBC Code
  - Not applicable.

- UN "Model Regulation": not regulated

15 Regulatory information

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

  - Australian Inventory of Chemical Substances
    - All ingredients are listed.

  - Standard for the Uniform Scheduling of Medicines and Poisons
    - 54-19-7 acetic acid

  - GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).

    - Hazard pictograms

    GHS07

    - Signal word Warning
    - Hazard statements
      - Causes skin irritation.

(Contd. on page 7)
Trade name: Finishing Reagent

Causes serious eye irritation.
May cause an allergic skin reaction.

- **Precautionary statements**
  - Avoid breathing dust/fume/gas/mist/vapours/spray.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - IF SWALLOWED: Call a doctor if you feel unwell.
  - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
  - IF ON SKIN: Wash with plenty of soap and water.
  - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Store in accordance with local/regional/national/international regulations.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P1a EXPLOSIVES
- Qualifying quantity (tonnes) for the application of lower-tier requirements 10 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50 t
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- **Abbreviations and acronyms:**
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  - Skin Sens. 1: Skin sensitisation – Category 1
Safety Data Sheet
acc. to OSHA HCS

Revision Date: 05/09/2019  Issue Date: 05/08/2019

1 Identification

- **Product identifier**
  This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

- **Product name:** GlykoPrep Digestion (RX) Cartridges

- **Product Code:** WS0253

- **Application of the substance / the mixture**
  Reagents and Standards for Analytical Chemical Laboratory Use

- **Details of the supplier of the safety data sheet**

  - **Manufacturer/Supplier:**
    Agilent Technologies, Inc.
    5301 Stevens Creek Blvd
    Santa Clara, CA 95051, USA

  - **Email:** pdl-msds_author@agilent.com

  - **Phone number:** 800-227-9770

  - **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**
  The substance is not classified, according to the Globally Harmonized System (GHS).

- **Additional information:**
  This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product’s directions for use it may present potential health and safety hazards.

- **Label elements**
  - **GHS label elements** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void
  - **Precautionary statements**
    Avoid breathing dust/fume/gas/mist/vapors/spray

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    Health = 0  Fire = 0  Reactivity = 0

  - **HMIS-ratings (scale 0 - 4)**
    HEALTH 0  FIRe 0  REACTIVITY 0

- **Other hazards**
  - **Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
3 Composition/information on ingredients

- Chemical characterization: Substances
  - CAS No. Description
    Modified Silica
- Additional information:
  This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product’s directions for use it may present potential health and safety hazards.

4 First-aid measures

- Description of first aid measures
  - General information: No special measures required.
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: Generally the product does not irritate the skin.
  - After eye contact: Rinse opened eye for several minutes under running water.
  - After swallowing: If symptoms persist consult doctor.
- Information for doctor:
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
  - Suitable extinguishing agents: Use fire fighting measures that suit the environment.
  - Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
  - Protective equipment: No special measures required.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
  - Wear protective gloves / eye protection / face protection.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Pick up mechanically.
- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
  - PAC-1:
    - Substance is not listed.
**Product name:** GlykoPrep Digestion (RX) Cartridges

- **PAC-2:** Substance is not listed.
- **PAC-3:** Substance is not listed.

### 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling** Wear protective gloves / eye protection / face protection.
  - **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles** No special requirements.
    - **Information about storage in one common storage facility** Not required.
    - **Further information about storage conditions** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**
    - The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
    - The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
    - At this time, the remaining constituent has no known exposure limits.
    - At this time, the other constituents have no known exposure limits.
  - **Additional information** The lists that were valid during the creation were used as basis.
- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures** The usual precautionary measures for handling chemicals should be followed.
    - **Breathing equipment** Not required.
    - **Protection of hands**
      - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
      - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    - **Material of gloves**
      - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
    - **Penetration time of glove material**
      - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection** Wear eye protection / face protection.
9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance**:
      - **Form**: Solid
      - **Color**: According to product specification
      - **Odor**: Characteristic
      - **Odor threshold**: Not determined.
    - **pH-value**: Not applicable.
  - **Change in condition**
    - **Melting point/Melting range**: Undetermined.
    - **Boiling point/Boiling range**: Undetermined.
  - **Flash point**: Not applicable.
  - **Flammability (solid, gaseous)**: Product is not flammable.
  - **Decomposition temperature**: Not determined.
  - **Auto igniting**: Not determined.
  - **Danger of explosion**: Product does not present an explosion hazard.
  - **Explosion limits**:
    - **Lower**: Not determined.
    - **Upper**: Not determined.
  - **Vapor pressure**: Not applicable.
  - **Density**: Not determined.
    - **Relative density**: Not determined.
    - **Vapor density**: Not applicable.
    - **Evaporation rate**: Not applicable.
  - **Solubility in / Miscibility with**
    - **Water**: Insoluble.
  - **Partition coefficient (n-octanol/water)**: Not determined.
  - **Viscosity**:
    - **Dynamic**: Not applicable.
    - **Kinematic**: Not applicable.
    - **VOC content**: 0.00 %
  - **Solids content**: 100.0 %
  - **Other information**: No further relevant information available.

10 Stability and reactivity

- **Reactivity**: No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided**: No decomposition if used according to specifications.
  - **Possibility of hazardous reactions**: No dangerous reactions known.
  - **Conditions to avoid**: No further relevant information available.
  - **Incompatible materials**: No further relevant information available.
Product name: GlykoPrep Digestion (RX) Cartridges

11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:
    - Primary irritant effect:
      - on the skin: May be harmful in contact with skin.
      - on the eye: No irritating effect.
    - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
    The substance is not subject to classification.

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    Substance is not listed.
  - NTP (National Toxicology Program)
    Substance is not listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    Substance is not listed.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
  - Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
  - Additional ecological information:
  - General notes:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Dispose of contents/container in accordance with local/regional/national/international regulations.
Product name: GlykoPrep Digestion (RX) Cartridges

14 Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

- UN-Number
  - DOT, ADN, IMDG, IATA: not regulated
- UN proper shipping name
  - DOT, ADN, IMDG, IATA: not regulated
- Transport hazard class(es)
  - DOT, ADN, IMDG, IATA: not regulated
- Class
- Packing group
  - DOT, IMDG, IATA: not regulated
- Environmental hazards: Not applicable.
- Special precautions for user: Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
- UN "Model Regulation": not regulated

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Sara
    - Section 355 (extremely hazardous substances): Substance is not listed.
    - Section 313 (Specific toxic chemical listings): Substance is not listed.
  - TSCA (Toxic Substances Control Act): Substance is not listed.
  - TSCA new (21st Century Act): (Substances not listed)
    - Modified Silica
  - Proposition 65
    - Chemicals known to cause cancer: Substance is not listed.
    - Chemicals known to cause reproductive toxicity for females: Substance is not listed.

(Contd. on page 7)
**Product name:** GlykoPrep Digestion (RX) Cartridges

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<table>
<thead>
<tr>
<th>(Contd. of page 6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>· <strong>Chemicals known to cause reproductive toxicity for males:</strong></td>
</tr>
<tr>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>· <strong>Chemicals known to cause developmental toxicity:</strong></td>
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<tr>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>· <strong>Carcinogenic categories</strong></td>
</tr>
<tr>
<td>· <strong>EPA (Environmental Protection Agency)</strong></td>
</tr>
<tr>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>· <strong>TLV (Threshold Limit Value established by ACGIH)</strong></td>
</tr>
<tr>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>· <strong>NIOSH-Ca (National Institute for Occupational Safety and Health)</strong></td>
</tr>
<tr>
<td>Substance is not listed.</td>
</tr>
<tr>
<td>· <strong>GHS label elements</strong> Void</td>
</tr>
<tr>
<td>· <strong>Hazard pictograms</strong> Void</td>
</tr>
<tr>
<td>· <strong>Signal word</strong> Void</td>
</tr>
<tr>
<td>· <strong>Hazard statements</strong> Void</td>
</tr>
<tr>
<td>· <strong>Precautionary statements</strong></td>
</tr>
<tr>
<td>Avoid breathing dust/fume/gas/mist/vapors/spray</td>
</tr>
<tr>
<td>· <strong>Chemical safety assessment:</strong> A Chemical Safety Assessment has not been carried out.</td>
</tr>
</tbody>
</table>

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**16 Other information**

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.
1 Identification

· Product identifier
  · Trade name: Blocking Reagent; Blocking Reagent, 24-ct
  · Article number: WS0255, WS0255-24, WS0255-GP

· Relevant identified uses of the substance or mixture and uses advised against
  · Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use

· Details of the supplier of the safety data sheet
  · Manufacturer/Supplier:
    Agilent Technologies Australia Pty Ltd
    679 Springvale Road
    Mulgrave
    Victoria 3170, Australia
  · Email: pdl-msds_author@agilent.com
  · Phone number: 1800 802 402
  · Emergency telephone number: CHEMTREC®: +(61)-290372994

2 Hazard(s) Identification

· Classification of the substance or mixture
  The product is not classified, according to the Globally Harmonised System (GHS).

· Label elements
  · GHS label elements Void
  · Hazard pictograms Void
  · Signal word Void
  · Hazard statements Void

· Precautionary statements
  Keep away from combustible materials.
  Avoid breathing dust/fume/gas/mist/vapours/spray.
  Wash thoroughly after handling.
  Wear protective gloves/protective clothing/eye protection/face protection.
  IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
  IF ON SKIN: Wash with plenty of soap and water.
  IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  Store in accordance with local/regional/national/international regulations.
  Store away from other materials.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

· Other hazards

· Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures
· Description: Mixture of substances listed below with nonhazardous additions.
· Dangerous components: Void

(Contd. on page 2)
Trade name: Blocking Reagent; Blocking Reagent, 24-ct

Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
  - **Most important symptoms and effects, both acute and delayed** No further relevant information available.
  - **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
  - Wear protective gloves / eye protection / face protection.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and Storage

- **Handling:**
  - **Precautions for safe handling** Wear protective gloves / eye protection / face protection.
  - **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** None.
  - **Specific end use(s)** No further relevant information available.
8 Exposure controls and personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- Control parameters
- Ingredients with limit values that require monitoring at the workplace:
  The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.
- Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
    The usual precautionary measures are to be adhered to when handling chemicals.
  - Respiratory protection: Not required.
  - Protection of hands:
    The glove material has to be impermeable and resistant to the product/the substance/the preparation.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
  - Material of gloves Wear suitable gloves.
  - Penetration time of glove material
    The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Wear eye protection / face protection.

9 Physical and Chemical Properties

- Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Liquid
      - Colour: Light yellow
      - Odour: Characteristic
      - Odour threshold: Not determined.
    - pH-value: Not determined.
  - Change in condition
    - Melting point/freezing point: Undetermined.
    - Initial boiling point and boiling range: Undetermined.
  - Flash point: Not applicable.
  - Flammability (solid, gas): Not applicable.
  - Decomposition temperature: Not determined.
  - Auto-ignition temperature: Product is not selfigniting.
  - Explosive properties: Product does not present an explosion hazard.
  - Explosion limits:
    - Lower: Not determined.
    - Upper: Not determined.
  - Vapour pressure: Not determined.
  - Density: Not determined.
  - Relative density: Not determined.
Trade name: Blocking Reagent; Blocking Reagent, 24-ct

- Vapour density: Not determined.
- Evaporation rate: Not determined.

- Solubility in / Miscibility with water: Fully miscible.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Solvent content:
  - Water: 99.0 %
- Other information: No further relevant information available.

10 Stability and Reactivity
- Reactivity: No further relevant information available.
- Chemical stability:
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information
- Information on toxicological effects:
- Acute toxicity:
- Primary irritant effect:
- Skin corrosion/irritation: May be harmful in contact with skin.
- Serious eye damage/irritation: No irritating effect.
- Respiratory or skin sensitisation: No sensitising effects known.
- Additional toxicological information:
  The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
  When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological Information
- Toxicity:
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Additional ecological information:
- General notes: Not hazardous for water.
Safety Data Sheet
according to WHS Regulations

Revision Date: 25.04.2019  Issue Date: 18.04.2019

Trade name: Blocking Reagent; Blocking Reagent, 24-ct

(Contd. of page 4)

· Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.
· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods
  · Recommendation Dispose of contents/container in accordance with local/regional/national/international regulations.
· Uncleaned packaging:
  · Recommendation: Disposal must be made according to official regulations.
  · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

· UN-Number
  · ADG, ADN, IMDG, IATA not regulated
· UN proper shipping name
  · ADG, ADN, IMDG, IATA not regulated
· Transport hazard class(es)
  · ADG, ADN, IMDG, IATA not regulated
  · Class not regulated
· Packing group
  · ADG, IMDG, IATA not regulated
· Environmental hazards: Not applicable.
· Special precautions for user Not applicable.
· Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.
· UN "Model Regulation": not regulated

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · Australian Inventory of Chemical Substances
    All ingredients are listed.
  · Standard for the Uniform Scheduling of Medicines and Poisons
    None of the ingredients is listed.
  · GHS label elements Void
  · Hazard pictograms Void
  · Signal word Void
  · Hazard statements Void

(Contd. on page 6)
Trade name: Blocking Reagent; Blocking Reagent, 24-ct

· Precautionary statements

  Keep away from combustible materials.
  Avoid breathing dust/fume/gas/mist/vapours/spray.
  Wash thoroughly after handling.
  Wear protective gloves/protective clothing/eye protection/face protection.
  IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
  IF ON SKIN: Wash with plenty of soap and water.
  IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  Store in accordance with local/regional/national/international regulations.
  Store away from other materials.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.
1 Identification

- **Product identifier**
  This product is considered an article. This Safety Data Sheet is written based on the encapsulated substance or mixture in this article.

- **Product name:** GlykoPrep Cleanup (CU) Cartridges
- **Product Code:** WS0263
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** Agilent Technologies, Inc.
    5301 Stevens Creek Blvd
    Santa Clara, CA 95051, USA
  - **Email:** pdl-msds_author@agilent.com
  - **Phone number:** 800-227-9770
  - **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**
  The substance is not classified, according to the Globally Harmonized System (GHS).

- **Additional information:**
  This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product’s directions for use it may present potential health and safety hazards.

- **Label elements**
  - **GHS label elements** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void
  - **Precautionary statements**
    Avoid breathing dust/fume/gas/mist/vapors/spray

- **Classification system:**
  - **NFPA ratings (scale 0 - 4)**
    - Health = 0
    - Fire = 0
    - Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**
  - Health = 0
  - Fire = 0
  - Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.

(Contd. on page 2)
# Safety Data Sheet
## acc. to OSHA HCS

**Product name:** GlykoPrep Cleanup (CU) Cartridges

### 3 Composition/information on ingredients
- **Chemical characterization:** Substances
- **CAS No. Description**
  - Modified Silica
- **Additional information:**
  - This article, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. The substance or mixture is encapsulated in the article. Only if released due to use or processing of the article in a manner not in accordance with the product's directions for use it may present potential health and safety hazards.

### 4 First-aid measures
- **Description of first aid measures**
  - **General information:** No special measures required.
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Generally the product does not irritate the skin.
  - **After eye contact:** Rinse opened eye for several minutes under running water.
  - **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

### 5 Fire-fighting measures
- **Extinguishing media**
  - **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**: No further relevant information available.
- **Advice for firefighters**
  - **Protective equipment:** No special measures required.

### 6 Accidental release measures
- **Personal precautions, protective equipment and emergency procedures**
  - Wear protective gloves / eye protection / face protection.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**
  - **PAC-1:**
    - Substance is not listed.
Product name: GlykoPrep Cleanup (CU) Cartridges

7 Handling and storage

- Handling:
  - Precautions for safe handling: Wear protective gloves / eye protection / face protection.
  - Information about protection against explosions and fires: No special measures required.

- Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles: No special requirements.
    - Information about storage in one common storage facility: Not required.
    - Further information about storage conditions: None.

- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see item 7.

- Control parameters
  - Components with limit values that require monitoring at the workplace:
    - The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
    - The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
    - At this time, the remaining constituent has no known exposure limits.
    - At this time, the other constituents have no known exposure limits.
  - Additional information: The lists that were valid during the creation were used as basis.

- Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.
    - Breathing equipment: Not required.
    - Protection of hands:
      - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
      - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    - Material of gloves
      - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
    - Penetration time of glove material
      - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
    - Eye protection: Wear eye protection / face protection.
9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - **Form:** Solid
      - **Color:** According to product specification
    - **Odor:** Characteristic
    - **Odor threshold:** Not determined.
  - **pH-value:** Not applicable.
  - **Change in condition**
    - **Melting point/Melting range:** Undetermined.
    - **Boiling point/Boiling range:** Undetermined.
  - **Flash point:** Not applicable.
  - **Flammability (solid, gaseous):** Product is not flammable.
  - **Decomposition temperature:** Not determined.
  - **Auto igniting:** Not determined.
  - **Danger of explosion:** Product does not present an explosion hazard.
  - **Explosion limits:**
    - **Lower:** Not determined.
    - **Upper:** Not determined.
  - **Vapor pressure:** Not applicable.
  - **Density:** Not determined.
  - **Relative density**
    - Not determined.
  - **Vapor density**
    - Not applicable.
  - **Evaporation rate**
    - Not applicable.
  - **Solubility in / Miscibility with Water:** Insoluble.
  - **Partition coefficient (n-octanol/water):** Not determined.
  - **Viscosity:**
    - **Dynamic:** Not applicable.
    - **Kinematic:** Not applicable.
    - **VOC content:** 0.00 %
  - **Solids content:** 100.0 %
  - **Other information**
    - No further relevant information available.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
  - **Possibility of hazardous reactions** No dangerous reactions known.
  - **Conditions to avoid** No further relevant information available.
  - **Incompatible materials:** No further relevant information available.
11 Toxicological information

- Information on toxicological effects
  - Primary irritant effect:
    - on the skin: May be harmful in contact with skin.
    - on the eye: No irritating effect.
  - Sensitization: No sensitizing effects known.
  - Additional toxicological information:
    When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
    The substance is not subject to classification.

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    Substance is not listed.
  - NTP (National Toxicology Program)
    Substance is not listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    Substance is not listed.

12 Ecological information

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability: No further relevant information available.
- Behavior in environmental systems:
  - Bioaccumulative potential: No further relevant information available.
  - Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes:
    Water hazard class 1 (Self-assessment): slightly hazardous for water
    Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation: Dispose of contents/container in accordance with local/regional/national/international regulations.
Safety Data Sheet  
acc. to OSHA HCS

Revision Date: 05/09/2019  
Issue Date: 05/08/2019

Product name: GlykoPrep Cleanup (CU) Cartridges

(Contd. of page 5)

· Uncleaned packagings:
  · Recommendation: Disposal must be made according to official regulations.

14 Transport information

This Safety Data Sheet is written based on the encapsulated substance or mixture in this article. Since the hazardous ingredient is encapsulated, the risk of exposure by inhalation, ingestion, skin contact and eyes contact is minimum.

· UN-Number
  · DOT, ADN, IMDG, IATA: not regulated

· UN proper shipping name
  · DOT, ADN, IMDG, IATA: not regulated

· Transport hazard class(es)
  · DOT, ADN, IMDG, IATA: not regulated
  · Class: not regulated

· Packing group
  · DOT, IMDG, IATA: not regulated

· Environmental hazards:
  Not applicable.

· Special precautions for user
  Not applicable.

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  Not applicable.

· UN "Model Regulation": not regulated

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · Sara

  · Section 355 (extremely hazardous substances):
    Substance is not listed.

  · Section 313 (Specific toxic chemical listings):
    Substance is not listed.

  · TSCA (Toxic Substances Control Act):
    Substance is not listed.

  · TSCA new (21st Century Act): (Substances not listed)
    Modified Silica

  · Proposition 65

    · Chemicals known to cause cancer:
      Substance is not listed.

    · Chemicals known to cause reproductive toxicity for females:
      Substance is not listed.

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· Chemicals known to cause reproductive toxicity for males:
  Substance is not listed.

· Chemicals known to cause developmental toxicity:
  Substance is not listed.

· Carcinogenic categories
  · EPA (Environmental Protection Agency)
    Substance is not listed.
  · TLV (Threshold Limit Value established by ACGIH)
    Substance is not listed.
  · NIOSH-Ca (National Institute for Occupational Safety and Health)
    Substance is not listed.

· GHS label elements Void
  · Hazard pictograms Void
  · Signal word Void
  · Hazard statements Void
  · Precautionary statements
    Avoid breathing dust/fume/gas/mist/vapors/spray
  · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.
1 Identification

- **Product identifier**
  - **Trade name:** 25X Digestion Buffer
  - **Article number:** WS0276, WS0276-GP

- **Relevant identified uses of the substance or mixture and uses advised against**
  - Application of the substance / the mixture: Reagents and Standards for Analytical Chemical Laboratory Use

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:**
    Agilent Technologies Australia Pty Ltd
    679 Springvale Road
    Mulgrave
    Victoria 3170, Australia
  - **Email:** pdl-msds_author@agilent.com
  - **Phone number:** 1800 802 402
  - **Emergency telephone number:** CHEMTREC®: +(61)-290372994

2 Hazard(s) Identification

- **Classification of the substance or mixture**
  The product is not classified, according to the Globally Harmonised System (GHS).

- **Label elements**
  - **GHS label elements** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void

- **Precautionary statements**
  - Keep/Store away from clothing/combustible materials.
  - Avoid breathing dust/fume/gas/mist/vapours/spray.
  - Wash thoroughly after handling.
  - Avoid release to the environment.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - IF SWALLOWED: Call a doctor if you feel unwell.
  - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
  - IF ON SKIN: Wash with plenty of soap and water.
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
    - If skin irritation occurs: Get medical advice/attention.
    - Store in accordance with local/regional/national/international regulations.
    - Store in a closed container.
    - Store away from other materials.
    - Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**

- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
Trade name: 25X Digestion Buffer

3 Composition and Information on Ingredients

- Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.
- Dangerous components: Void
- Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- Description of first aid measures
  - General information: No special measures required.
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: Generally the product does not irritate the skin.
  - After eye contact: Rinse opened eye for several minutes under running water.
  - After swallowing: If symptoms persist consult doctor.
  - Information for doctor:
    - Most important symptoms and effects, both acute and delayed No further relevant information available.
    - Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

- Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures
  - Wear protective gloves / eye protection / face protection.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and Storage

- Handling:
  - Precautions for safe handling Wear protective gloves / eye protection / face protection.
  - Information about fire - and explosion protection: No special measures required.
Trade name: 25X Digestion Buffer

· Conditions for safe storage, including any incompatibilities
  · Storage:
  · Requirements to be met by storerooms and receptacles: No special requirements.
  · Information about storage in one common storage facility: Not required.
  · Further information about storage conditions: None.
  · Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· Control parameters
  · Ingredients with limit values that require monitoring at the workplace:
  The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  · Additional information: The lists valid during the making were used as basis.

· Exposure controls
  · Personal protective equipment:
    · General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.
    · Respiratory protection: Not required.
    · Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    · Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    · Material of gloves Wear suitable gloves.
    · Penetration time of glove material
      The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
    · Eye protection: Wear eye protection / face protection.

9 Physical and Chemical Properties

· Information on basic physical and chemical properties
  · General Information
    · Appearance:
      · Form: Liquid
      · Colour: Colourless
      · Odour: Odourless
      · Odour threshold: Not determined.
    · pH-value at 20 °C: 9.273
  · Change in condition
    · Melting point/freezing point: 0 °C
    · Initial boiling point and boiling range: 100 °C
  · Flash point: Not applicable.
  · Flammability (solid, gas): Not applicable.
  · Decomposition temperature: Not determined.
  · Auto-ignition temperature: Product is not selfigniting.
  · Explosive properties: Product does not present an explosion hazard.
Trade name: 25X Digestion Buffer

- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.

- **Vapour pressure at 20 °C:** 23 hPa

- **Density at 20 °C:** 0.98878 g/cm³
  - Relative density: Not determined.
  - Vapour density: Not determined.
  - Evaporation rate: Not determined.

- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

- **Partition coefficient: n-octanol/water:** Not determined.

- **Viscosity:**
  - Dynamic at 20 °C: 0.952 mPas
  - Kinematic: Not determined.

- **Solvent content:**
  - Water: 96.7 %

- **Solids content:** 0.0 %

- **Other information**
  - No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions: No dangerous reactions known.
  - Conditions to avoid: No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
  - **Acute toxicity**
  - Primary irritant effect:
    - Skin corrosion/irritation: May be harmful in contact with skin.
    - Serious eye damage/irritation: No irritating effect.
    - Respiratory or skin sensitisation: No sensitising effects known.
  - Additional toxicological information:
    - The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
    - When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
12 Ecological Information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.
  - Behaviour in environmental systems:
    - Bioaccumulative potential: No further relevant information available.
    - Mobility in soil: No further relevant information available.
    - Additional ecological information:
      - General notes:
        - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
        - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
    - Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Dispose of contents/container in accordance with local/regional/national/international regulations.
- Uncleaned packaging
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- UN-Number
  - ADG, ADN, IMDG, IATA: not regulated
- UN proper shipping name
  - ADG, ADN, IMDG, IATA: not regulated
- Transport hazard class(es)
  - ADG, ADN, IMDG, IATA: not regulated
- Packing group
  - ADG, IMDG, IATA: not regulated
- Environmental hazards:
  - Not applicable.
- Special precautions for user
  - Not applicable.
- Transport in bulk according to Annex II of Marpol and the IBC Code
  - Not applicable.
- UN "Model Regulation":
  - not regulated
15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
  - Australian Inventory of Chemical Substances
    - All ingredients are listed.
  - Standard for the Uniform Scheduling of Medicines and Poisons
    - None of the ingredients is listed.
- GHS label elements Void
- Hazard pictograms Void
- Signal word Void
- Hazard statements Void
- Precautionary statements
  - Keep/Store away from clothing/combustible materials.
  - Avoid breathing dust/fume/gas/mist/vapours/spray.
  - Wash thoroughly after handling.
  - Avoid release to the environment.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - IF SWALLOWED: Call a doctor if you feel unwell.
  - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
  - IF ON SKIN: Wash with plenty of soap and water.
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - If skin irritation occurs: Get medical advice/attention.
  - Store in accordance with local/regional/national/international regulations.
  - Store in a closed container.
  - Store away from other materials.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.
- Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.
  - Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.
1 Identification

· Product identifier
· Trade name: AdvanceBio N-Glycanase; 4x AdvancedBio N-Glycanase (24-ct); Advance Bio N-Glycanase for GlykoPrepPlus
· Article number: WS0278, WS0278-GP, WS0278-24
· Relevant identified uses of the substance or mixture and uses advised against
  · Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use
· Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
  Agilent Technologies Australia Pty Ltd
  679 Springvale Road
  Mulgrave
  Victoria 3170, Australia
· Email: pdl-msds_author@agilent.com
· Phone number: 1800 802 402
· Emergency telephone number: CHEMTREC®: +(61)-290372994

2 Hazard(s) Identification

· Classification of the substance or mixture
  GHS08 health hazard
  Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  ! GHS07
  Skin Sens. 1 H317 May cause an allergic skin reaction.

· Label elements
  · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
  · Hazard pictograms

  GHS08

  · Signal word Danger
  · Hazard statements
    May cause allergy or asthma symptoms or breathing difficulties if inhaled.
    May cause an allergic skin reaction.
  · Precautionary statements
    Avoid breathing dust/fume/gas/mist/vapours/spray.
    Contaminated work clothing should not be allowed out of the workplace.
    Wear protective gloves/protective clothing/eye protection/face protection.
    In case of inadequate ventilation wear respiratory protection.

(Contd. on page 2)
Trade name: AdvanceBio N-Glycanase; 4x AdvancedBio N-Glycanase (24-ct); Advance Bio N-Glycanase for GlykoPrepPlus

IF SWALLOWED: Call a doctor if you feel unwell.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Collect spillage.
Store in accordance with local/regional/national/international regulations.
Store in a well-ventilated place. Keep cool.
Store away from other materials.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

3 Composition and Information on Ingredients

Chemical characterisation: Mixtures
Description: Mixture of substances listed below with nonhazardous additions.
Dangerous components: Void
Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

Description of first aid measures
After inhalation:
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
After skin contact: Immediately wash with water and soap and rinse thoroughly.
After eye contact: Rinse opened eye for several minutes under running water.
After swallowing: If symptoms persist consult doctor.
Information for doctor:
Most important symptoms and effects, both acute and delayed No further relevant information available.
Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

Extinguishing media
Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
Special hazards arising from the substance or mixture No further relevant information available.
6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures
  Wear protective gloves / eye protection / face protection.
- Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose contaminated material as waste according to item 13.
  Ensure adequate ventilation.
- Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.

7 Handling and Storage

- Handling:
  - Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Prevent formation of aerosols.
  - Information about fire - and explosion protection: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: None.
  - Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - Additional information: The lists valid during the making were used as basis.
- Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:
      Keep away from foodstuffs, beverages and feed.
      Immediately remove all soiled and contaminated clothing
      Wash hands before breaks and at the end of work.
    - Respiratory protection:
      In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Trade name: AdvanceBio N-Glycanase; 4x AdvancedBio N-Glycanase (24-ct); Advance Bio N-Glycanase for GlykoPrepPlus

· Protection of hands:
  - Protective gloves

  The glove material has to be impermeable and resistant to the product/substance/preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

  · Material of gloves: Wear suitable gloves.

  · Penetration time of glove material:
    - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

  · Eye protection: Wear eye protection/face protection.

9 Physical and Chemical Properties

· Information on basic physical and chemical properties
  · General Information
    · Appearance:
      - Form: Liquid
      - Colour: Clear
    · Odour: Characteristic
    · Odour threshold: Not determined.
  · pH-value at 20 °C: 7.5
  · Change in condition
    - Melting point/freezing point: Undetermined.
    - Initial boiling point and boiling range: Undetermined.
  · Flash point: Not applicable.
  · Flammability (solid, gas): Not applicable.
  · Decomposition temperature: Not determined.
  · Auto-ignition temperature: Product is not selfigniting.
  · Explosive properties: Product does not present an explosion hazard.
  · Explosion limits:
    - Lower: Not determined.
    - Upper: Not determined.
  · Vapour pressure at 20 °C: 23 hPa
  · Density:
    - Not determined.
    - Relative density
    - Not determined.
    - Vapour density
    - Not determined.
    - Evaporation rate
    - Not determined.
  · Solubility in / Miscibility with water: Fully miscible.
  · Partition coefficient: n-octanol/water: Not determined.
### 10 Stability and Reactivity

- **Reactivity**: No further relevant information available.
- **Chemical stability**
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
  - Possibility of hazardous reactions: No dangerous reactions known.
  - Conditions to avoid: No further relevant information available.
  - Incompatible materials: No further relevant information available.
  - Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
  - Primary irritant effect: May be harmful in contact with skin.
  - Serious eye damage/irritation: No irritating effect.
- **Respiratory or skin sensitisation**
  - Sensitisation possible through inhalation.
  - Sensitisation possible through skin contact.
- **Additional toxicological information**:
  - The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
    - Harmful
    - Irritant

### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity**: No further relevant information available.
- **Persistence and degradability**: No further relevant information available.
- **Behaviour in environmental systems**:
  - **Bioaccumulative potential**: No further relevant information available.
  - **Mobility in soil**: No further relevant information available.
- **Additional ecological information**:
- **General notes**: Not hazardous for water.
Results of PBT and vPvB assessment

- PBT: Not applicable.
- vPvB: Not applicable.

Other adverse effects No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

- Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

- UN-Number
  - ADG, ADN, IMDG, IATA not regulated

- UN proper shipping name
  - ADG, ADN, IMDG, IATA not regulated

- Transport hazard class(es)
  - ADG, ADN, IMDG, IATA not regulated

- Class
  - ADG, IMDG, IATA not regulated

- Packing group
  - ADG, IMDG, IATA not regulated

- Environmental hazards: Not applicable.

- Special precautions for user Not applicable.

- Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

- UN "Model Regulation": not regulated

15 Regulatory information

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

  Australian Inventory of Chemical Substances

  - 1185-53-1 2-amino-2-(hydroxymethyl)propane-1,3-diolhydrochloride
  - 7647-14-5 sodium chloride
  - 7732-18-5 water, distilled, conductivity or of similar purity

- Standard for the Uniform Scheduling of Medicines and Poisons
  None of the ingredients is listed.

- GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
Trade name: AdvanceBio N-Glycanase; 4x AdvancedBio N-Glycanase (24-ct); Advance Bio N-Glycanase for GlykoPrepPlus

· Hazard pictograms

GHS08

· Signal word Danger

· Hazard statements
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.

· Precautionary statements
Avoid breathing dust/fume/gas/mist/vapours/spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation wear respiratory protection.
IF SWALLOWED: Call a doctor if you feel unwell.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Collect spillage.
Store in accordance with local/regional/national/international regulations.
Store in a well-ventilated place. Keep cool.
Store away from other materials.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information
The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· Abbreviations and acronyms:
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
1 Identification

- **Product identifier**
  - **Trade name:** APTS Catalyst; APTS Catalyst, 24-ct
  - **Article number:** WS0295, WS0295-24

- **Relevant identified uses of the substance or mixture and uses advised against**

- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use

- **Details of the supplier of the safety data sheet**
  - **Manufacturer/Supplier:** Agilent Technologies Australia Pty Ltd
    679 Springvale Road
    Mulgrave
    Victoria 3170, Australia
  - **Email:** pdl-msds_author@agilent.com
  - **Phone number:** 1800 802 402
  - **Emergency telephone number:** CHEMTREC®: +(61)-290372994

2 Hazard(s) Identification

- **Classification of the substance or mixture**
  - GHS01 exploding bomb
  - GHS02 flame
    Flam. Liq. 3 H226 Flammable liquid and vapour.
  - GHS08 health hazard
    Resp. Sens. 1B H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - GHS05 corrosion
    Skin Corr. 1B H314 Causes severe skin burns and eye damage.
  - GHS07
    Acute Tox. 4 H302 Harmful if swallowed.
    Acute Tox. 4 H312 Harmful in contact with skin.
    STOT SE 3 H335 May cause respiratory irritation.

(Contd. on page 2)
· Label elements
  - GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
  - Hazard pictograms

![GHS pictograms](GHS01 GHS02 GHS05 GHS07 GHS08)

· Signal word  Danger

· Hazard-determining components of labelling:
  - difluoroacetic acid

· Hazard statements
  - Unstable explosives.
  - Flammable liquid and vapour.
  - Harmful if swallowed.
  - Harmful in contact with skin.
  - Causes severe skin burns and eye damage.
  - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - May cause respiratory irritation.

· Precautionary statements
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - Ground/bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Do not breathe dusts or mists.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - Wear personal protective equipment/face protection.
  - Wear respiratory protection.
  - IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
  - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
  - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Specific treatment (see on this label).
  - Take off contaminated clothing and wash it before reuse.
  - If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
  - Wash contaminated clothing before reuse.
  - In case of fire: Use for extinction: CO2, powder or water spray.
  - Explosion risk in case of fire.
  - DO NOT fight fire when fire reaches explosives.
  - Evacuate area.
  - Store in accordance with local/regional/national/international regulations.
  - Store in a well-ventilated place. Keep container tightly closed.
  - Store in a well-ventilated place. Keep cool.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.
48.1.25

・Other hazards
・Results of PBT and vPvB assessment
・PBT: Not applicable.
・vPvB: Not applicable.

3 Composition and Information on Ingredients

・Chemical characterisation: Mixtures
・Description: Mixture of substances listed below with nonhazardous additions.

・Dangerous components:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>67-68-5 dimethyl sulfoxide</td>
<td>75.0%</td>
</tr>
<tr>
<td>381-73-7 difluoroacetic acid</td>
<td>25.0%</td>
</tr>
</tbody>
</table>

・Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

・Description of first aid measures
・General information: Immediately remove any clothing soiled by the product.
・After inhalation: In case of unconsciousness place patient stably in side position for transportation.
・After skin contact: Immediately wash with water and soap and rinse thoroughly.
・After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
・After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
・Information for doctor:
• Most important symptoms and effects, both acute and delayed No further relevant information available.
• Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

・Extinguishing media
・Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
・Special hazards arising from the substance or mixture No further relevant information available.
・Advice for firefighters
・Protective equipment: No special measures required.

6 Accidental Release Measures

・Personal precautions, protective equipment and emergency procedures
Remove persons from danger area.
Wear protective equipment. Keep unprotected persons away.
・Environmental precautions: Do not allow to enter sewers/surface or ground water.
・Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
・Reference to other sections
See Section 7 for information on safe handling.
7 Handling and Storage

- Handling:
  - Precautions for safe handling
    Ensure good ventilation/exhaustion at the workplace.
    Open and handle receptacle with care.
    Prevent formation of aerosols.
  - Information about fire - and explosion protection:
    Keep ignition sources away - Do not smoke.
    Prevent impact and friction.

- Conditions for safe storage, including any incompatibilities
  - Storage:
    - Requirements to be met by storerooms and receptacles: No special requirements.
    - Information about storage in one common storage facility: Not required.
    - Further information about storage conditions:
      Keep container tightly sealed.
      Protect from heat and direct sunlight.

- Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

- Additional information about design of technical facilities: No further data; see item 7.

- Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - Additional information: The lists valid during the making were used as basis.

- Exposure controls
  - Personal protective equipment:
    - General protective and hygienic measures:
      Keep away from foodstuffs, beverages and feed.
      Immediately remove all soiled and contaminated clothing
      Wash hands before breaks and at the end of work.
      Avoid contact with the eyes and skin.
    - Respiratory protection:
      In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
  - Protection of hands:
    - Protective gloves
      The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
      Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    - Material of gloves
      Wear suitable gloves.
    - Penetration time of glove material
      The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Trade name: APTS Catalyst; APTS Catalyst, 24-ct

· Eye protection:

Tightly sealed goggles

9 Physical and Chemical Properties

· Information on basic physical and chemical properties

· General Information

· Appearance:
  Form: Liquid
  Colour: Clear
  Odour: Acrid
  Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition
  Melting point/freezing point: Undetermined.
  Initial boiling point and boiling range: Undetermined.

· Flash point: 78 °C

· Flammability (solid, gas): Not applicable.

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Risk of explosion by shock, friction, fire or other sources of ignition.

· Explosion limits:
  Lower: Not determined.
  Upper: Not determined.

· Vapour pressure: Not determined.

· Density:
  Relative density: Not determined.
  Vapour density: Not determined.
  Evaporation rate: Not determined.

· Solubility in / Miscibility with water: Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:
  Dynamic: Not determined.
  Kinematic: Not determined.

· Solvent content:
  Organic solvents: 75.0 %
Trade name: APTS Catalyst; APTS Catalyst, 24-ct

10 Stability and Reactivity

- Reactivity: No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- Information on toxicological effects
  - Acute toxicity
  - LD/LC50 values relevant for classification:
    67-68-5 dimethyl sulfoxide
    - Oral LD50: 14,500 mg/kg (rat)
    - Dermal LD50: >5,000 mg/kg (rabbit)
    - Inhalative LC50/4 h: 40,250 mg/l (rat)

- Primary irritant effect:
  - Skin corrosion/irritation: Caustic effect on skin and mucous membranes.
  - Serious eye damage/irritation: Strong caustic effect.
  - Respiratory or skin sensitisation: No sensitising effects known.

- Additional toxicological information:
  - The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
    - Corrosive
    - Irritant
  - Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological Information

- Toxicity
  - Aquatic toxicity:
    67-68-5 dimethyl sulfoxide
    - EC50: mg/kg (daphnia)

- Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes:
    - Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
    - Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
13 Disposal considerations

- Waste treatment methods
  - Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

Not Regulated, De minimis Quantities

- UN-Number
  - ADG, ADN, IMDG, IATA not regulated

- UN proper shipping name
  - ADG, ADN, IMDG, IATA not regulated

- Transport hazard class(es)
  - ADG, ADN, IMDG, IATA
    - Class not regulated

- Packing group
  - ADG, IMDG, IATA not regulated

- Environmental hazards:
  - Not applicable.

- Special precautions for user
  - Not applicable.

- Transport in bulk according to Annex II of Marpol and the IBC Code
  - Not applicable.

- UN "Model Regulation":
  - not regulated

15 Regulatory information

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

  - Australian Inventory of Chemical Substances
    - 67-68-5 dimethyl sulfoxide

  - Standard for the Uniform Scheduling of Medicines and Poisons
    - 67-68-5 dimethyl sulfoxide S4, S6

- GHS label elements
  - The product is classified and labelled according to the Globally Harmonised System (GHS).
**Trade name:** APTS Catalyst; APTS Catalyst, 24-ct

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS01</td>
</tr>
</tbody>
</table>

- **Signal word** Danger
- **Hazard-determining components of labelling:**
  - difluoroacetic acid

- **Hazard statements**
  - Unstable explosives.
  - Flammable liquid and vapour.
  - Harmful if swallowed.
  - Harmful in contact with skin.
  - Causes severe skin burns and eye damage.
  - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - May cause respiratory irritation.

- **Precautionary statements**
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - Ground/bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - Ground/bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - Ground/bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - Ground/bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.
  - Do not handle until all safety precautions have been read and understood.
  - Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - Ground/bond container and receiving equipment.
  - Use explosion-proof electrical/ventilating/lighting equipment.
  - Use only non-sparking tools.
  - Take precautionary measures against static discharge.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P1a EXPLOSIVES
Trade name: APTS Catalyst; APTS Catalyst, 24-ct

- Qualifying quantity (tonnes) for the application of lower-tier requirements 10 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50 t
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

Abbreviations and acronyms:
- Unst. Expl.: Explosives – Unstable explosive
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Resp. Sens. 1B: Respiratory sensitisation – Category 1B
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
1 Identification

· Product identifier
· Trade name: APTS Solution; APTS Solution, 24-ct
· Article number: WS0299, WS0299-24

· Relevant identified uses of the substance or mixture and uses advised against
· Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use

· Details of the supplier of the safety data sheet
· Manufacturer/Supplier: Agilent Technologies Australia Pty Ltd
  679 Springvale Road
  Mulgrave
  Victoria 3170, Australia
· Email: pdl-msds_author@agilent.com
· Phone number: 1800 802 402
· Emergency telephone number: CHEMTREC®: +(61)-290372994

2 Hazard(s) Identification

· Classification of the substance or mixture
  GHS07
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2A H319 Causes serious eye irritation.
  STOT SE 3 H335 May cause respiratory irritation.

· Label elements
  · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
  · Hazard pictograms
  GHS07

· Signal word Warning

· Hazard-determining components of labelling:
  8-aminopyrene-1,3,6-trisulfonic acidtrisodium salt

· Hazard statements
  Causes skin irritation.
  Causes serious eye irritation.
  May cause respiratory irritation.

· Precautionary statements
  Avoid breathing dust/fume/gas/mist/vapours/spray.
  Wash thoroughly after handling.
  Use only outdoors or in a well-ventilated area.
  Wear protective gloves / eye protection / face protection.
  IF SWALLOWED: Call a doctor if you feel unwell.
3 Composition and Information on Ingredients

- Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Dangerous components:</th>
</tr>
</thead>
<tbody>
<tr>
<td>196504-57-1</td>
</tr>
</tbody>
</table>

- Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

- Description of first aid measures
  - After inhalation: In case of unconsciousness place patient stably in side position for transportation.
  - After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - After swallowing: If symptoms persist consult doctor.
  - Information for doctor:
    - Most important symptoms and effects, both acute and delayed: No further relevant information available.
    - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Fire Fighting Measures

- Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- Special hazards arising from the substance or mixture: No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures
  - Wear protective gloves / eye protection / face protection.
- Environmental precautions:
  - Dilute with plenty of water.
  - Do not allow to enter sewers/ surface or ground water.
Trade name: APTS Solution; APTS Solution, 24-ct

Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and Storage

Handling:

Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire - and explosion protection: No special measures required.

Conditions for safe storage, including any incompatibilities

Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep container tightly sealed.
Specific end use(s) No further relevant information available.

8 Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Control parameters
Ingredients with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Additional information: The lists valid during the making were used as basis.

Exposure controls
Personal protective equipment:
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Respiratory protection:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves Wear suitable gloves.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Trade name: APTS Solution; APTS Solution, 24-ct

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**9 Physical and Chemical Properties**

- **Information on basic physical and chemical properties**
  - **General Information**
    - Appearance:
      - Form: Liquid
      - Colour: Orange
    - Odour: Characteristic
    - Odour threshold: Not determined.
  - pH-value: Not determined.
- **Change in condition**
  - Melting point/freezing point: Undetermined.
  - Initial boiling point and boiling range: 100 °C
- **Flash point:** Not applicable.
- **Flammability (solid, gas):** Not applicable.
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapour pressure at 20 °C:** 23 hPa
- **Density:**
  - Relative density: Not determined.
  - Vapour density: Not determined.
  - Evaporation rate: Not determined.
- **Solubility in / Miscibility with water:** Fully miscible.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **Solvent content:**
  - Water: 77.8 %
  - Solids content: 23.0 %

---
Safety Data Sheet  
according to WHS Regulations  

Trade name: APTS Solution; APTS Solution, 24-ct

(Contd. of page 4)

10 Stability and Reactivity

· Reactivity No further relevant information available.
· Chemical stability
· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
· Possibility of hazardous reactions No dangerous reactions known.
· Conditions to avoid No further relevant information available.
· Incompatible materials: No further relevant information available.
· Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

· Information on toxicological effects
· Acute toxicity
· Primary irritant effect:
· Skin corrosion/irritation Irritant to skin and mucous membranes.
· Serious eye damage/irritation Irritating effect.
· Respiratory or skin sensitisation No sensitising effects known.
· Additional toxicological information:
  The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  Irritant

12 Ecological Information

· Toxicty
· Aquatic toxicity: No further relevant information available.
· Persistence and degradability No further relevant information available.
· Behaviour in environmental systems:
· Bioaccumulative potential No further relevant information available.
· Mobility in soil No further relevant information available.
· Additional ecological information:
· General notes:
  Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· Results of PBT and vPvB assessment
  PBT: Not applicable.
  vPvB: Not applicable.
· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods
· Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 6)
Trade name: APTS Solution; APTS Solution, 24-ct

- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.
  - Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information
Not Regulated, De minimis Quantities

- UN-Number
  - ADG, ADN, IMDG, IATA not regulated
- UN proper shipping name
  - ADG, ADN, IMDG, IATA not regulated
- Transport hazard class(es)
  - ADG, ADN, IMDG, IATA Class not regulated
  - Packing group
    - ADG, IMDG, IATA not regulated
- Environmental hazards:
  Not applicable.
- Special precautions for user
  Not applicable.
- Transport in bulk according to Annex II of Marpol and the IBC Code
  Not applicable.
- UN "Model Regulation": not regulated

15 Regulatory information
Safety, health and environmental regulations/legislation specific for the substance or mixture

- Australian Inventory of Chemical Substances
  7732-18-5 water, distilled, conductivity or of similar purity
- Standard for the Uniform Scheduling of Medicines and Poisons
  None of the ingredients is listed.
- GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
  - Hazard pictograms
    - GHS07
- Signal word Warning
- Hazard-determining components of labelling:
  8-aminopyrene-1,3,6-trisulfonic acidtrisodium salt
- Hazard statements
  Causes skin irritation.

(Contd. on page 7)
Trade name: APTS Solution; APTS Solution, 24-ct

Causes serious eye irritation.
May cause respiratory irritation.

Precautionary statements
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves / eye protection / face protection.
IF SWALLOWED: Call a doctor if you feel unwell.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation occurs: Get medical advice/attention.
Store in accordance with local/regional/national/international regulations.
Store in a closed container.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Other information
The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

Abbreviations and acronyms:
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
1 Identification

· Product identifier
· Trade name: Reductant Solution
· Article number: WS0300, WS0300-24

· Relevant identified uses of the substance or mixture and uses advised against
· Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use

· Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
  Agilent Technologies Australia Pty Ltd
  679 Springvale Road
  Mulgrave
  Victoria 3170, Australia
· Email: pdl-msds_author@agilent.com
· Phone number: 1800 802 402
· Emergency telephone number: CHEMTREC®: +(61)-290372994

2 Hazard(s) Identification

· Classification of the substance or mixture
  GHS06 skull and crossbones
  Acute Tox. 2 H300 Fatal if swallowed.
  Acute Tox. 2 H310 Fatal in contact with skin.

  GHS05 corrosion
  Skin Corr. 1B H314 Causes severe skin burns and eye damage.

  GHS07
  STOT SE 3 H335 May cause respiratory irritation.

· Label elements
· GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
· Hazard pictograms
  GHS05  GHS06  GHS07

· Signal word Danger
· Hazard-determining components of labelling:
  sodium cyanoborohydride

(Contd. on page 2)
Trade name: Reductant Solution

· Hazard statements
  Fatal if swallowed.
  Fatal in contact with skin.
  Causes severe skin burns and eye damage.
  May cause respiratory irritation.

· Precautionary statements
  Do not allow contact with air.
  Handle under inert gas. Protect from moisture.
  Do not breathe dusts or mists.
  Do not get in eyes, on skin, or on clothing.
  Wash thoroughly after handling.
  Do not eat, drink or smoke when using this product.
  Use only outdoors or in a well-ventilated area.
  Avoid release to the environment.
  Wear protective gloves/protective clothing/eye protection/face protection.
  Wear respiratory protection.
  IF SWALLOWED: Call a doctor if you feel unwell.
  IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
  IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  Specific treatment (see on this label).
  Take off immediately all contaminated clothing and wash it before reuse.
  Collect spillage.
  Store in a well-ventilated place. Keep container tightly closed.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

· Additional information:
  Contact with acids liberates very toxic gas.

· Other hazards
  · Results of PBT and vPvB assessment
    · PBT: Not applicable.
    · vPvB: Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures
  · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:
  67-68-5 dimethyl sulfoxide 86.0%
  25895-60-7 sodium cyanborohydride 14.0%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· Description of first aid measures
  · General information: Immediately remove any clothing soiled by the product.
  · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
  · After skin contact: Immediately wash with water and soap and rinse thoroughly.
  · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
  · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
5 Fire Fighting Measures

- Extinguishing media
  - Suitable extinguishing agents:
    - Sand. Do not use water.
    - Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
  - Protective equipment: Mouth respiratory protective device.

6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures
  - Wear protective equipment. Keep unprotected persons away.
  - Environment precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Use neutralising agent.
  - Dispose contaminated material as waste according to item 13.
  - Ensure adequate ventilation.
  - Do not flush with water or aqueous cleansing agents
- Reference to other sections
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

7 Handling and Storage

- Handling:
- Precautions for safe handling
  - Ensure good ventilation/exhaustion at the workplace.
  - Prevent formation of aerosols.
- Information about fire and explosion protection: No special measures required.
- Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Do not store together with acids.
  - Further information about storage conditions:
    - Keep container tightly sealed.
    - Store in cool, dry conditions in well sealed receptacles.
  - Specific end use(s) No further relevant information available.
8 Exposure controls and personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- Control parameters
- Ingredients with limit values that require monitoring at the workplace:
  The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.
- Exposure controls
- Personal protective equipment:
  - General protective and hygienic measures:
    Keep away from foodstuffs, beverages and feed.
    Immediately remove all soiled and contaminated clothing
    Wash hands before breaks and at the end of work.
    Avoid contact with the eyes and skin.
  - Respiratory protection:
    In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
  - Protection of hands:

    ![Protective gloves]
    Protective gloves

    The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- Material of gloves: Wear suitable gloves.
- Penetration time of glove material
  The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection:

    ![Tightly sealed goggles]
    Tightly sealed goggles

9 Physical and Chemical Properties

- Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: Liquid
  - Colour: Colourless
  - Odour: Characteristic
  - Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition
  - Melting point/freezing point: Undetermined.
  - Initial boiling point and boiling range: Undetermined.
### 48.1.25

- **Flash point:** Not applicable.
- **Flammability (solid, gas):** Not applicable.
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapour pressure:** Not determined.
- **Density:** Not determined.
  - Relative density
  - Vapour density
  - Evaporation rate
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- **Solvent content:**
  - Organic solvents: 86.0 %
- **Solids content:** 14.0 %
- **Other information**
  - No further relevant information available.

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
  - **LD/LC50 values relevant for classification:**
    - 67-68-5 dimethyl sulfoxide
      - Oral LD50 14,500 mg/kg (rat)
Trade name: Reductant Solution

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Dermal LD50</th>
<th>Inhalative LC50/4 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;5,000 mg/kg (rabbit)</td>
<td>40,250 mg/l (rat)</td>
<td></td>
</tr>
</tbody>
</table>

- Primary irritant effect:
  - Skin corrosion/irritation: Caustic effect on skin and mucous membranes.
  - Serious eye damage/irritation: Strong caustic effect.
  - Respiratory or skin sensitisation: No sensitising effects known.
- Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  - Corrosive
  - Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological Information

- Toxicity
  - Aquatic toxicity:
    - 67-68-5 dimethyl sulfoxide
    - EC50: mg/kg (daphnia)
- Persistence and degradability: No further relevant information available.
- Behaviour in environmental systems:
- Bioaccumulative potential: No further relevant information available.
- Mobility in soil: No further relevant information available.
- Additional ecological information:
  - General notes:
    - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
    - Do not allow product to reach ground water, water course or sewage system.
    - Must not reach sewage water or drainage ditch undiluted or unneutralised.
    - Danger to drinking water if even small quantities leak into the ground.
  - Results of PBT and vPvB assessment
    - PBT: Not applicable.
    - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.

13 Disposal considerations

- Waste treatment methods
  - Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

14 Transport information

- Not Regulated, De minimis Quantities
- UN-Number: UN3082
- ADG: AU
**Trade name:** Reductant Solution

| IMDG, IATA | not regulated |
| UN proper shipping name | ADG | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| IMDG, IATA | not regulated |

**Transport hazard class(es)**

| ADG |
| Class | 9 Miscellaneous dangerous substances and articles. |
| Label | 9 |

| IMDG, IATA | Class | not regulated |

| Packing group |
| ADG | III |
| IMDG, IATA | not regulated |

**Environmental hazards:**

| Special marking (ADG): | Symbol (fish and tree) |
| Special precautions for user | Warning: Miscellaneous dangerous substances and articles. |
| Danger code (Kemler): | 90 |

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

| Transport/Additional information: |
| Limited quantities (LQ) | 5L |
| Exempted quantities (EQ) | Code: E1 |
| Maximum net quantity per inner packaging: 30 ml |
| Maximum net quantity per outer packaging: 1000 ml |
| Transport category | 3 |
| Tunnel restriction code | - |

| UN "Model Regulation": | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III |

**15 Regulatory information**

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

| Australian Inventory of Chemical Substances |
| All ingredients are listed. |

| Standard for the Uniform Scheduling of Medicines and Poisons |
| 67-68-5 dimethyl sulfoxide | S4, S6 |

**GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).
Safety Data Sheet  
according to WHS Regulations

Trade name: Reductant Solution

- Hazard pictograms
  - GHS05
  - GHS06
  - GHS07

- Signal word Danger

- Hazard-determining components of labelling:
  - Sodium cyanoborohydride

- Hazard statements
  - Fatal if swallowed.
  - Fatal in contact with skin.
  - Causes severe skin burns and eye damage.
  - May cause respiratory irritation.

- Precautionary statements
  - Do not allow contact with air.
  - Handle under inert gas. Protect from moisture.
  - Do not breathe dusts or mists.
  - Do not get in eyes, on skin, or on clothing.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Avoid release to the environment.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - Wear respiratory protection.
  - IF SWALLOWED: Call a doctor if you feel unwell.
  - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
  - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - Specific treatment (see on this label).
  - Take off immediately all contaminated clothing and wash it before reuse.
  - Collect spillage.
  - Store in a well-ventilated place. Keep container tightly closed.
  - Store locked up.
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- Directive 2012/18/EU
  - Named dangerous substances - ANNEX I None of the ingredients is listed.
  - Seveso category
    - H2 ACUTE TOXIC
    - E2 Hazardous to the Aquatic Environment
  - Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
  - Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
  - Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- Abbreviations and acronyms:
  - Acute Tox. 2: Acute toxicity – Category 2
  - Skin Corr. 1B: Skin corrosion/irritation – Category 1B
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
1 Identification

· Product identifier
· Trade name: 5X APTS Sample Load Buffer
· Article number: WS0301-24, WS0301-GP

· Relevant identified uses of the substance or mixture and uses advised against
· Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use

· Details of the supplier of the safety data sheet
· Manufacturer/Supplier: Agilent Technologies Australia Pty Ltd
  679 Springvale Road
  Mulgrave
  Victoria 3170, Australia
· Email: pdl-msds_author@agilent.com
· Phone number: 1800 802 402
· Emergency telephone number: CHEMTREC®: +(61)-290372994

2 Hazard(s) Identification

· Classification of the substance or mixture

![GHS07]

Acute Tox. 4 H302 Harmful if swallowed.
Skin Irrit. 2 H315 Causes skin irritation.
STOT SE 3 H335 May cause respiratory irritation.

· Label elements
· GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
· Hazard pictograms

![GHS07]

· Signal word Warning
· Hazard statements
Harmful if swallowed.
Causes skin irritation.
May cause respiratory irritation.
· Precautionary statements
Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF SWALLOWED: Call a doctor if you feel unwell.
IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Call a doctor if you feel unwell.

(Contd. on page 2)
# Safety Data Sheet

**Trade name:** 5X APTS Sample Load Buffer

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Store in accordance with local/regional/national/international regulations. Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Other hazards**
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

## 3 Composition and Information on Ingredients

- **Chemical characterisation:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:** Void
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## 4 First Aid Measures

**Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
  - Most important symptoms and effects, both acute and delayed: No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed: No further relevant information available.

## 5 Fire Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**
  - Wear protective gloves / eye protection / face protection.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

(Contd. on page 3)
Trade name: 5X APTS Sample Load Buffer

7 Handling and Storage

· Handling:
  · Precautions for safe handling: No special precautions are necessary if used correctly.
  · Information about fire - and explosion protection: No special measures required.

· Conditions for safe storage, including any incompatibilities
  · Storage:
    · Requirements to be met by storerooms and receptacles: No special requirements.
    · Information about storage in one common storage facility: Not required.
    · Further information about storage conditions: None.
  · Specific end use(s): No further relevant information available.

8 Exposure controls and personal protection

· Additional information about design of technical facilities: No further data; see item 7.

· Control parameters
  · Ingredients with limit values that require monitoring at the workplace:
    · The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  · Additional information: The lists valid during the making were used as basis.

· Exposure controls
  · Personal protective equipment:
    · General protective and hygienic measures: Wash hands before breaks and at the end of work.
    · Respiratory protection: Not required.
  · Protection of hands:
    · The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
    · Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    · Material of gloves: Wear suitable gloves.
    · Penetration time of glove material
      · The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
    · Eye protection: Wear eye protection / face protection.

9 Physical and Chemical Properties

· Information on basic physical and chemical properties
  · General Information
    · Appearance:
      · Form: Liquid
      · Colour: Colourless
      · Odour: Characteristic
      · Odour threshold: Not determined.
    · pH-value at 20 °C: 4.4
  · Change in condition
    · Melting point/freezing point: Undetermined.
    · Initial boiling point and boiling range: Undetermined.
  · Flash point: Not applicable.
### 4.1.25

- **Flammability (solid, gas):** Not applicable.
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not self-igniting.
- **Explosive properties:** Product does not present an explosion hazard.
  - **Explosion limits:**
    - **Lower:** Not determined.
    - **Upper:** Not determined.
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** >0.6606 g/cm³
- **Relative density:** Not determined.
- **Vapour density:** Not determined.
- **Evaporation rate:** Not determined.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient: n-octanol/water:** Not determined.

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity**
  - **LD/LC50 values relevant for classification:**
    - 26628-22-8 sodium azide
      - Oral LD50 27 mg/kg (rat)
      - Dermal LD50 20 mg/kg (rabbit)
48.1.25

· Primary irritant effect:
  · Skin corrosion/irritation May be harmful in contact with skin.
  · Respiratory or skin sensitisation No sensitising effects known.

· Serious eye damage/irritation No irritating effect.

12 Ecological Information

· Toxicity
  · Aquatic toxicity: No further relevant information available.
  · Persistence and degradability No further relevant information available.

· Behaviour in environmental systems:
  · Bioaccumulative potential No further relevant information available.
  · Mobility in soil No further relevant information available.

· Additional ecological information:
  · General notes: Not hazardous for water.
  · Results of PBT and vPvB assessment
    · PBT: Not applicable.
    · vPvB: Not applicable.
  · Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods
  · Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packaging:
  · Recommendation: Disposal must be made according to official regulations.

14 Transport information

<table>
<thead>
<tr>
<th>UN-Number</th>
<th>ADG, ADN, IMDG, IATA</th>
<th>not regulated</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>ADG, ADN, IMDG, IATA</td>
<td>not regulated</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>ADG, ADN, IMDG, IATA</td>
<td>not regulated</td>
</tr>
<tr>
<td>Class</td>
<td>not regulated</td>
<td></td>
</tr>
<tr>
<td>Packing group</td>
<td>ADG, IMDG, IATA</td>
<td>not regulated</td>
</tr>
<tr>
<td>Environmental hazards:</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Not applicable.</td>
<td></td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of Marpol and the IBC Code</td>
<td>Not applicable.</td>
<td></td>
</tr>
</tbody>
</table>
15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Australian Inventory of Chemical Substances
  All ingredients are listed.
- Standard for the Uniform Scheduling of Medicines and Poisons
  None of the ingredients is listed.
- GHS label elements
  The product is classified and labelled according to the Globally Harmonised System (GHS).
- Hazard pictograms

![GHS07](image)

- Signal word
  Warning
- Hazard statements
  Harmful if swallowed.
  Causes skin irritation.
  May cause respiratory irritation.
- Precautionary statements
  Avoid breathing dust/fume/gas/mist/vapours/spray.
  Avoid release to the environment.
  Wear protective gloves/protective clothing/eye protection/face protection.
  IF SWALLOWED: Call a doctor if you feel unwell.
  IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
  IF ON SKIN: Wash with plenty of soap and water.
  IF INHALED: Call a doctor if you feel unwell.
  IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  Store in accordance with local/regional/national/international regulations.
  Dispose of contents/container in accordance with local/regional/national/international regulations.
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I
  None of the ingredients is listed.
- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent’s state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- Abbreviations and acronyms:
  Acute Tox. 4: Acute toxicity – Category 4
  Skin Irrit. 2: Skin corrosion/irritation – Category 2
  STOT SE 3: Specific target organ toxicity (single exposure) – Category 3