Kit Name: GlykoPrep APTS Cleanup Module, 24-ct

Kit PN: GS24-C2

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

Kit Components

<table>
<thead>
<tr>
<th>Kit Component Part Number</th>
<th>Kit Component Name</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>WS0301-24</td>
<td>5x APTS Sample Load Buffer, 12 ml</td>
<td>1 bottle</td>
</tr>
<tr>
<td>WS0293</td>
<td>Cleanup (CU) Cartridges</td>
<td>2 x 12 pack</td>
</tr>
<tr>
<td>MS1160</td>
<td>Aluminum Sealing Film*</td>
<td>2 each</td>
</tr>
</tbody>
</table>

*(Only contains hardware/non-chemical containing)*

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>Not Regulated</td>
</tr>
</tbody>
</table>
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, 24-ct
  - **Product Code**: WS0293
  - **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)
Product name: GlykoPrep Cleanup (CU) Cartridges, 24-ct

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, 24-ct

<table>
<thead>
<tr>
<th>PAC-2:</th>
<th>Substance is not listed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAC-3:</td>
<td>Substance is not listed.</td>
</tr>
</tbody>
</table>

### 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: White
    - 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:**
    - 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 Cleanup (CU) Cartridges, 24-ct

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.
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 minimal.

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

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.
### Product name: GlykoPrep Cleanup (CU) Cartridges, 24-ct

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

### 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
  · Product name: 5X APTS Sample Load Buffer
  · Product Code: WS0301-24, WS0301-GP
· 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 product is not classified, according to the Globally Harmonized System (GHS).

· 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
  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 person to fresh air and keep comfortable for breathing.
  Store in accordance with local/regional/national/international regulations.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:
  · NFPA ratings (scale 0 - 4)
    
    Health = 0
    Fire = 0
    Reactivity = 0
  · HMIS-ratings (scale 0 - 4)
    
    HEALTH 0
    FIRE 0
    REACTIVITY 0

(Contd. on page 2)
3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.
- Dangerous components: Void

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: 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.
- Protective Action Criteria for Chemicals
  PAC-1:
<table>
<thead>
<tr>
<th>Substance</th>
<th>PAC Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>540-69-2 ammonium formate</td>
<td>3.7 mg/m³</td>
</tr>
<tr>
<td>26628-22-8 sodium azide</td>
<td>0.026 mg/m³</td>
</tr>
</tbody>
</table>
Product name: 5X APTS Sample Load Buffer

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** 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
      - **Color**: Colorless
    - **Odor**:
      - **Odor**: Characteristic
      - **Odor threshold**: Not determined.
  - **pH-value at 20 °C (68 °F)**: 4.4
  - **Change in condition**
    - **Melting point/Melting range**: Undetermined.
    - **Boiling point/Boiling range**: Undetermined.
  - **Flash point**: Not applicable.
  - **Flammability (solid, gaseous)**: Not applicable.
  - **Decomposition temperature**: Not determined.
  - **Auto igniting**: Product is not selfigniting.
  - **Danger of explosion**: Product does not present an explosion hazard.
  - **Explosion limits**:
    - **Lower**: Not determined.
    - **Upper**: Not determined.
  - **Vapor pressure**: Not determined.
  - **Density at 20 °C (68 °F)**: >0.6606 g/cm³ (>5.51271 lbs/gal)
  - **Relative density**: Not determined.
  - **Vapor 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**:
    - **Water**: 99.3 %
    - **VOC content**: 0.00 %
  - **Solids content**: <1.0 %
  - **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.
Product name: 5X APTS Sample Load Buffer

11 Toxicological information

- Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values that are relevant for classification:
    | Compound       | LD50  | LC50  |
    |----------------|-------|-------|
    | 26628-22-8 sodium azide | 27 mg/kg (rat) |       |
    |                 | 20 mg/kg (rabbit) |     |
  - 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:
    The product is not subject to classification according to internally approved calculation methods for preparations.
    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.

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)
    None of the ingredients is listed.
  - NTP (National Toxicology Program)
    None of the ingredients is listed.
  - OSHA-Ca (Occupational Safety & Health Administration)
    None of the ingredients is 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: 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: Dispose of contents/container in accordance with local/regional/national/international regulations.

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

14 Transport information

- 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

- 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):
  - 26628-22-8 sodium azide

- Section 313 (Specific toxic chemical listings):
  - 26628-22-8 sodium azide

- TSCA (Toxic Substances Control Act):
  - 540-69-2 ammonium formate
  - 26628-22-8 sodium azide
  - 7732-18-5 water, distilled, conductivity or of similar purity

- Hazardous Air Pollutants
  - None of the ingredients is listed.

- Proposition 65

- Chemicals known to cause cancer:
  - None of the ingredients is listed.
### 49.0

- **Chemicals known to cause reproductive toxicity for females:**
  
  None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**
  
  None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**
  
  None of the ingredients is listed.

- **Carcinogenic categories**
  
  - **EPA (Environmental Protection Agency)**
    
    None of the ingredients is listed.

  - **TLV (Threshold Limit Value established by ACGIH)**
    
    26628-22-8 sodium azide

  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    
    None of the ingredients is listed.

- **GHS label elements** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

- **Precautionary statements**
  
  - Avoid breathing dust/fume/gas/mist/vapors/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 person to fresh air and keep comfortable for breathing.
  
  - Store in accordance with local/regional/national/international regulations.
  
  - Dispose of contents/container in accordance with local/regional/national/international regulations.

- **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.