

# SAFETY DATA SHEET

SureSelect XT Clinical Research Exome V4 Libraries

## Section 1. Identification

|                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product identifier</b>                                                                   | : SureSelect XT Clinical Research Exome V4 Libraries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Part no.</b>                                                                             | : 5280-0026, 5280-0027, 5280-0028, 5280-0029, 5280-0030, 5280-0031                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b><u>Relevant identified uses of the substance or mixture and uses advised against</u></b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Identified uses</b>                                                                      | : Analytical reagent.<br>For research use only.<br>0.08 ml SureSelect XT Clinical Research Exome V4, 16 Reactions<br>5280-0026<br>0.48 ml SureSelect XT Clinical Research Exome V4, 96 Reactions<br>5280-0027<br>0.68 ml SureSelect XT Clinical Research Exome V4, 96 Reactions,<br>Automation 5280-0028<br>0.01 ml SureSelect XT PreCap Clinical Research Exome V4, 2<br>Hybridizations 5280-0029<br>0.06 ml SureSelect XT PreCap Clinical Research Exome V4, 12<br>Hybridizations 5280-0030<br>0.0725 ml SureSelect XT PreCap Clinical Research Exome V4, 12<br>Hybridizations, Automation 5280-0031 |
| <b>Uses advised against</b>                                                                 | : Not for use in diagnostic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Supplier/Manufacturer</b>                                                                | : Agilent Technologies, Inc.<br>5301 Stevens Creek Blvd<br>Santa Clara, CA 95051, USA<br>800-227-9770                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Emergency telephone number (with hours of operation)</b>                                 | : CHEMTREC®: 1-800-424-9300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Section 2. Hazard identification

### Classification of the substance or mixture

Not classified.

### GHS label elements

|                                        |                                                     |
|----------------------------------------|-----------------------------------------------------|
| <b>Signal word</b>                     | : No signal word.                                   |
| <b>Hazard statements</b>               | : No known significant effects or critical hazards. |
| <b><u>Precautionary statements</u></b> |                                                     |
| <b>Prevention</b>                      | : Not applicable.                                   |
| <b>Response</b>                        | : Not applicable.                                   |
| <b>Storage</b>                         | : Not applicable.                                   |
| <b>Disposal</b>                        | : Not applicable.                                   |

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

| Ingredient name | Synonyms | % (w/w)     | Identifiers  |   |
|-----------------|----------|-------------|--------------|---|
| Glycerol        | Glycerol | ≥0.5 - ≤1.5 | CAS: 56-81-5 | - |

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Methods for cleaning up** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## Section 7. Handling and storage

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

| Ingredient name                                                                            | Exposure limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  Glycerol | <p><b>CA Saskatchewan Provincial (Canada, 4/2021)</b><br/>           STEL 15 minutes: 20 mg/m<sup>3</sup>. Form: mist.<br/>           TWA 8 hours: 10 mg/m<sup>3</sup>. Form: mist.</p> <p><b>CA British Columbia Provincial (Canada, 9/2024)</b><br/>           TWA 8 hours: 10 mg/m<sup>3</sup>. Form: total mist.<br/>           TWA 8 hours: 3 mg/m<sup>3</sup>. Form: respirable mist.</p> <p><b>CA Quebec Provincial (Canada, 2/2024)</b><br/>           TWAEV 8 hours: 10 mg/m<sup>3</sup>. Form: mist.</p> <p><b>CA Alberta Provincial (Canada, 3/2023)</b><br/>           OEL 8 hours: 10 mg/m<sup>3</sup>. Form: Mist.</p> |

### Biological exposure indices

No exposure indices known.

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

## Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

- Physical state** : Liquid.
- Color** : Not available.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : 8
- Melting point/freezing point** : 0°C (32°F)
- Initial boiling point and boiling range** : 100°C (212°F)
- Flash point** : ☒ Not applicable.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not applicable.
- Upper/lower flammability or explosive limits** : Not available.
- Vapor pressure** : ☒ 2.3 kPa (17.5 mm Hg) [Based on solvent.]
- Vapor density** : Not available.
- Relative density** : Not available.
- Solubility** :
- | Media | Result  |
|-------|---------|
| water | Soluble |
- Miscible with water** : Yes.
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : ☒ Not available.
- Decomposition temperature** : Not available.
- Viscosity** : ☒ Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): Not available.

### Particle characteristics

- Median particle size** : Not applicable.

## Section 10. Stability and reactivity

|                                           |                                                                                                        |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.           |
| <b>Chemical stability</b>                 | : The product is stable.                                                                               |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| <b>Conditions to avoid</b>                | : No specific data.                                                                                    |
| <b>Incompatible materials</b>             | : May react or be incompatible with oxidizing materials.                                               |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                                                                    | Result            |             |
|--------------------------------------------------------------------------------------------|-------------------|-------------|
|  Glycerol | Rat - Oral - LD50 | 12600 mg/kg |
| <b>Conclusion/Summary [Product]</b>                                                        | : Not available.  |             |

#### Skin corrosion/irritation

| Product/ingredient name                                                                      | Result                        |                                                                                         |
|----------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------|
|  Glycerol | Rabbit - Skin - Mild irritant | Duration of treatment/<br>exposure: 24 hours<br>Amount/concentration<br>applied: 500 mg |
| <b>Conclusion/Summary [Product]</b>                                                          | : Not available.              |                                                                                         |

#### Serious eye damage/eye irritation

| Product/ingredient name                                                                      | Result                        |                                                                                         |
|----------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------|
|  Glycerol | Rabbit - Eyes - Mild irritant | Duration of treatment/<br>exposure: 24 hours<br>Amount/concentration<br>applied: 500 mg |
| <b>Conclusion/Summary [Product]</b>                                                          | : Not available.              |                                                                                         |

#### Respiratory corrosion/irritation

|                                     |                  |
|-------------------------------------|------------------|
| <b>Conclusion/Summary [Product]</b> | : Not available. |
|-------------------------------------|------------------|

#### Respiratory corrosion/irritation

Not available.

|                                     |                  |
|-------------------------------------|------------------|
| <b>Conclusion/Summary [Product]</b> | : Not available. |
|-------------------------------------|------------------|

## Section 11. Toxicological information

### Respiratory or skin sensitization

#### Skin

**Conclusion/Summary** : Not available.  
**[Product]**

#### Respiratory

**Conclusion/Summary** : Not available.  
**[Product]**

### Germ cell mutagenicity

**Conclusion/Summary** : Not available.  
**[Product]**

### Carcinogenicity

**Conclusion/Summary** : Not available.  
**[Product]**

### Reproductive toxicity

**Conclusion/Summary** : Not available.  
**[Product]**

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

## Section 11. Toxicological information

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

**Conclusion/Summary** : Not available.

#### **[Product]**

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| Glycerol                | 12600        | N/A            | N/A                      | N/A                        | N/A                                 |

## Section 12. Ecological information

### Toxicity

#### **Product/ingredient name**

#### **Result**

 Glycerol      Acute - LC50 - Fresh water      54000 mg/l [96 hours]      Fish - Trout - *Oncorhynchus mykiss*

**Conclusion/Summary** : Not available.

#### **[Product]**

### Persistence and degradability

#### **Product/ingredient name**

#### **Result**

 Glycerol      Ready Biodegradability - Closed Bottle Test      93% [30 days]      -

**Conclusion/Summary** : Not available.

#### **[Product]**

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| Glycerol                | -1.76              | -   | Low       |

### Mobility in soil

**Soil/Water partition coefficient** : Not available.



## Section 12. Ecological information

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

**TDG / IMDG / IATA** : Not regulated.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

### Canadian lists

**Canadian NPRI** : None of the components are listed.

**CEPA Toxic substances** : None of the components are listed.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Canada** : Not determined.

**United States** : All components are active or exempted.

## Section 16. Other information

### History

**Date of issue/Date of revision** : 08/28/2025

**Date of previous issue** : 11/22/2022

**Version** : 2

**Key to abbreviations** :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- DOT = Department of Transportation
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- HPR = Hazardous Products Regulations
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- IMO = International Maritime Organization
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- SGG = Segregation Group
- TDG = Transportation of Dangerous Goods
- UN = United Nations

### Procedure used to derive the classification

| Classification  | Justification |
|-----------------|---------------|
| Not classified. |               |

📌 Indicates information that has changed from previously issued version.

### Notice to reader

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