



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR)

Revision date 20-Mar-2025

Revision Number 2

## 1. Identification

### Product identifier

Product Name GS HIV 1/2 Plus O Controls

### Other means of identification

Catalog Number(s) 25117, 25118, 25119, 25120

### Recommended use of the chemical and restrictions on use

Recommended use Restricted to professional users  
Use according to package label instructions  
In-vitro laboratory reagent or component

Restrictions on use No information available

### Details of the supplier of the safety data sheet

#### Corporate Headquarters

Bio-Rad Laboratories Inc.  
1000 Alfred Nobel Drive  
Hercules, CA 94547  
USA

#### Manufacturer Address

Bio-Rad Laboratories  
14620 NE N Woodinville Way  
Woodinville, WA 98072  
USA

#### Legal Entity / Contact Address

Bio-Rad Laboratories (Canada) Ltd.  
2403 Guenette  
Montreal, Quebec H4R 2E9  
Canada

#### Technical Service

1-800-361-1808  
CSD\_Techsupport@bio-rad.com

### Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Canada:1 (800) 424-9300

## 2. Hazard(s) identification

### Classification

Skin sensitization

Category 1

### Label elements

#### Warning

#### Hazard statements

May cause an allergic skin reaction

**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection

**Skin**

IF ON SKIN: Wash with plenty of water and soap

If skin irritation or rash occurs: Get medical advice/attention

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

**Other information**

Contains animal source material.

Contains human source material and / or potentially infectious components

### 3. Composition/information on ingredients

**Substance**

Not applicable.

**Mixture**

The product contains no substances which at their given concentration, are considered to be hazardous to health

| Component                           | Description  |
|-------------------------------------|--|
| C0 - Negative Control               | Human serum; negative for HIV and HCV antibodies and HBsAg. Preserved with 0.005% gentamicin sulfate, CAS# 1405-41-0 and 0.16% ProClin 950 containing 0.016% active ingredient, CAS# 2682-20-4, 3(2H)-Isothiazolone, 2-methyl-   |
| C1 - HIV-1 Positive Control         | Human HIV-1 antibody in human serum/plasma, non-reactive for HBsAg and antibody to HCV. Preserved with 0.005% gentamicin sulfate, CAS# 1405-41-0 and 0.16% ProClin 950 containing 0.016% active ingredient, CAS# 2682-20-4, 3(2H)-Isothiazolone, 2-methyl-   |
| C2 - HIV-2 Positive Control         | Anticorps anti-HIV-2 humain dans du sérum/plasma humain. Négatif pour l'HBsAg et pour les anticorps anti-HCV. Conservé avec 0,005% de sulfate de gentamicine, n° CAS 1405-41-0 et 0,16 % de ProClin 950, contenant 0,016 % l'ingrédient actif n° CAS 2682-20-4, 2-Méthylisothiazolin-3(2H)-one         |
| C3 - HIV-1 Group O Positive Control | Rabbit serum containing HIV-1 Group O antibody diluted in normal human serum/plasma; negative for HIV and HCV antibodies and HBsAg. Preserved with 0.005% gentamicin sulfate, CAS# 1405-41-0 and 0.16% ProClin 950 containing 0.016% active ingredient, CAS# 2682-20-4, 3(2H)-Isothiazolone, 2-methyl- |

| Chemical name                  | CAS No.   | Weight-%     | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|--------------------------------|-----------|--------------|--|---|
| 3(2H)-Isothiazolone, 2-methyl- | 2682-20-4 | 0.01 - 0.099 | -  |   |

### 4. First-aid measures

**Description of first aid measures**

|                       |  |
|-----------------------|--|
| <b>General advice</b> | Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>     | Remove to fresh air.   |
| <b>Eye contact</b>    | Contains human source material and / or potentially infectious components. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. Call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. |
| <b>Skin contact</b>   | Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash skin with soap and water.  |
| <b>Ingestion</b>      | Call a physician. Contains human source material and / or potentially infectious components.   |

**Most important symptoms and effects, both acute and delayed**

|                 |                         |
|-----------------|-------------------------|
| <b>Symptoms</b> | Itching. Rashes. Hives. |
|-----------------|-------------------------|

**Indication of any immediate medical attention and special treatment needed**

|                           |   |
|---------------------------|---|
| <b>Note to physicians</b> | May cause sensitization in susceptible persons. Treat symptomatically. Contains human source material and / or potentially infectious components. |
|---------------------------|---|

**5. Fire-fighting measures**

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Unsuitable extinguishing media</b>                 | No information available.  |
| <b>Specific hazards arising from the chemical</b>     | Product is or contains a sensitizer. May cause sensitization by skin contact.  |
| <b>Explosion data</b>                                 |  |
| <b>Sensitivity to mechanical impact</b>               | None.  |
| <b>Sensitivity to static discharge</b>                | None.  |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures**

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
|-----------------------------|--|

**Methods and material for containment and cleaning up**

|                                |   |
|--------------------------------|---|
| <b>Methods for containment</b> | Do not allow into any sewer, on the ground or into any body of water. |
| <b>Methods for cleaning up</b> | Clean contaminated surface thoroughly. Use: Disinfectant.             |

## 7. Handling and storage

### Precautions for safe handling

#### Advice on safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

## 8. Exposure controls/personal protection

### Working area parameters, subject to mandatory control (MAC or TSEL)

#### Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

#### Engineering controls

Showers  
Eyewash stations  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Hand protection

Wear suitable gloves.

#### Skin and body protection

Wear suitable protective clothing.

#### Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

#### General hygiene considerations

Follow universal and standard precautions for handling potentially infectious materials.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Physical state

Liquid

#### Appearance

aqueous solution

#### Color

amber

#### Odor

No information available

#### Odor threshold

No information available

#### Property

#### Values

#### Remarks • Method

pH

7

|   |                   |            |
|---|-------------------|------------|
| Melting point / freezing point          | No data available | None known |
| Initial boiling point and boiling range | No data available | None known |
| Flash point                             | No data available | None known |
| Evaporation rate                        | No data available | None known |
| Flammability                            | No data available | None known |
| Flammability Limit in Air               |                   | None known |
| Upper flammability or explosive limits  | No data available |            |
| Lower flammability or explosive limits  | No data available |            |
| Vapor pressure                          | No data available | None known |
| Relative vapor density                  | No data available | None known |
| Relative density                        | No data available | None known |
| Water solubility                        | No data available | None known |
| Solubility in other solvents            | No data available | None known |
| Partition coefficient                   | No data available | None known |
| Autoignition temperature                | No data available | None known |
| Decomposition temperature               |                   | None known |
| Kinematic viscosity                     | No data available | None known |
| Dynamic viscosity                       | No data available | None known |
| <b>Other information</b>                |                   |            |
| Explosive properties                    | Not applicable.   |            |
| Oxidizing properties                    | Not applicable.   |            |
| Softening point                         | Not applicable    |            |
| Molecular weight                        | Not applicable    |            |
| VOC content                             | Not applicable    |            |

## 10. Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | No information available.                 |
| Chemical stability                 | Stable under normal conditions.           |
| Possibility of hazardous reactions | None under normal processing.             |
| Conditions to avoid                | None known based on information supplied. |
| Incompatible materials             | None known based on information supplied. |
| Hazardous decomposition products   | None known based on information supplied. |

## 11. Toxicological information

### Information on likely routes of exposure

#### Product Information

|              |  |
|--------------|--|
| Inhalation   | Specific test data for the substance or mixture is not available.  |
| Eye contact  | Specific test data for the substance or mixture is not available.  |
| Skin contact | May cause sensitization by skin contact Specific test data for the substance or mixture is not available Repeated or prolonged skin contact may cause allergic reactions with susceptible persons (based on components). |
| Ingestion    | Specific test data for the substance or mixture is not available.  |

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

**Symptoms** Itching. Rashes. Hives.

**Acute toxicity**

**Numerical measures of toxicity**

No information available

**Component Information**

| Chemical name                               | Oral LD50  | Dermal LD50            | Inhalation LC50         |
|---|--|------------------------|-------------------------|
| 3(2H)-Isothiazolone, 2-methyl-<br>2682-20-4 | 232 - 249 mg/kg ( Rat )<br><br>= 120 mg/kg ( Rat ) | = 200 mg/kg ( Rabbit ) | = 0.11 mg/L ( Rat ) 4 h |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitization** May cause sensitization by skin contact.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

**Component Information**

| Chemical name                               | Partition coefficient |
|---|-----------------------|
| 3(2H)-Isothiazolone, 2-methyl-<br>2682-20-4 | -0.26                 |

**Other adverse effects** No information available.

## 13. Disposal considerations

**Disposal methods**

|  |   |
|--|---|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.  |

## 14. Transport information

|                    |               |
|--------------------|---------------|
| <b><u>TDG</u></b>  | Not regulated |
| <b><u>DOT</u></b>  | Not regulated |
| <b><u>MEX</u></b>  | Not regulated |
| <b><u>IATA</u></b> | Not regulated |
| <b><u>IMDG</u></b> | Not regulated |

## 15. Regulatory information

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

#### International Regulations

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

#### International Inventories

Contact supplier for inventory compliance status

## 16. Other information

|                    |                         |                       |                           |   |
|--------------------|-------------------------|-----------------------|---------------------------|---|
| <b><u>NFPA</u></b> | <b>Health hazards</b> 2 | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Physical and chemical properties -</b> |
| <b><u>HMIS</u></b> | <b>Health hazards</b> 2 | <b>Flammability</b> 0 | <b>Physical hazards</b> 0 | <b>Personal protection</b> X              |

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |

#### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 Environmental Protection Agency  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal

Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
RTECS (Registry of Toxic Effects of Chemical Substances)  
World Health Organization

**Prepared By** Bio-Rad Laboratories, Environmental Health and Safety.

**Revision date** 20-Mar-2025

**Revision Note** Significant changes throughout SDS. Review all sections.

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**