

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2020/2008

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**Revision Number** 4

EGHS / English

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Code(s)** HD-BIOP3, HD-BIOP004, HD-BIOP004-Z

**Product Name** Bioproduction Cell Lines Biosafety Level 1

**Chemical name**

**Reach Number** A registration number is not required for this substance.

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

**Recommended Use** Laboratory use.

**Uses advised against** For research use only.

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

**Supplier Name** Horizon Discovery Biosciences Ltd.  
A Revvity Inc. Company

**Supplier Address** Building 8100 Cambridge Research Par,  
Waterbeach, Cambridgeshire,  
CB25 9TL, United Kingdom

**Supplier Phone Number** Tel: +44 (0) 1223 976 000 Fax: +44 (0) 1223 655 581

**Supplier Email** technical@horizondiscovery.com

### 1.4. Emergency telephone number

For 24/7 multilingual advice for a spill, leak, fire, exposure or accident call CHEMTREC at +44 20 3885 0382 (EMEA) or +1 800 424 9300 (Toll Free) and provide CCN 1015970.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification of substance according to Regulation (EC) No 1272/2008 (CLP)**

Not a hazardous substance or mixture.

**2.2. Label elements****Label elements according to Regulation (EC) No 1272/2008 (CLP)**

Not a hazardous substance or mixture.

**2.3. Other hazards**

No information available

**SECTION 3: Composition/information on ingredients****3.1 Substances**

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

Chemical name	EC No	CAS-No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No.
Glutamine	-	56-85-9	0-2%	No data available	No data available
Dimethyl Sulfoxide	-	67-68-5	0-7.5%	No data available	No data available
Cells	-	N/A	1-10%	No data available	No data available
Cell Media	-	N/A	80.5-99%	No data available	No data available

\* Any concentration shown as a range is to protect confidentiality or is due to process variation.

\*\*All components need not be disclosed according to applicable regulations due to non-hazardous classification status.

**Full text of H- and EUH-phrases: see section 16**This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS-No	SVHC candidates
Glutamine	56-85-9	-
Dimethyl Sulfoxide	67-68-5	-
Cell Media	N/A	-
Cells	N/A	-

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

Move to fresh air in case of accidental inhalation of vapors. If breathing has stopped, give artificial respiration. Get medical attention immediately.

**Skin contact**

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Ingestion** DO NOT induce vomiting. Call a physician or Poison Control Center immediately.

#### **4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms** No information available.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

### **Section 5: FIRE FIGHTING MEASURES**

#### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

#### **5.2. Special hazards arising from the substance or mixture**

**Specific hazards arising from the chemical**  
No information available.

#### **5.3. Advice for firefighters**

##### **Special protective equipment for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

**For emergency responders** Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

**Environmental precautions** Should not be released into the environment. See Section 12 for additional Ecological Information.

#### **6.3. Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

#### **6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Use personal protection equipment.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep tightly closed. Store in liquid nitrogen.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

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

**Derived No Effect Level (DNEL)** No information available

**Predicted No Effect Concentration (PNEC)** No information available

### 8.2. Exposure controls

#### **Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location. Minimize exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings.

#### **Personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Hand Protection** Protective 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.

**Environmental exposure controls** No information available.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Frozen Solid
Colour	Data not relevant for safe use
Odour	Data not relevant for safe use

<u>Property</u>	<u>Values</u>	<u>Remarks</u> <u>Method</u>
Melting / freezing point	Data not relevant for safe use	None known
Boiling point / boiling range	Data not relevant for safe use	None known
Flammability	Data not relevant for safe use	None known
Lower and Upper Exposure Limit	Data not relevant for safe use	None known
Flash Point	Data not relevant for safe use	None known
Auto-ignition Temperature	Data not relevant for safe use	None known
Flammability Limit in Air	Data not relevant for safe use	None known
Decomposition Temperature	Data not relevant for safe use	None known
pH	6.0-8.0	None known
Kinematic viscosity	Data not relevant for safe use	None known
Solubility	Data not relevant for safe use	None known
Partition coefficient: n-octanol/water	Data not relevant for safe use	None known
Vapour pressure	Data not relevant for safe use	None known
Density / Relative Density	Data not relevant for safe use	None known
Relative vapour density	Data not relevant for safe use	None known
Decomposition temperature	Data not relevant for safe use	None known
Particle characteristics	Data not relevant for safe use	None known

### 9.2. Other information

Softening Point	Data not relevant for safe use
Molecular Weight	Data not relevant for safe use
VOC Content (%)	Data not relevant for safe use
Liquid Density	Data not relevant for safe use
Bulk Density	Data not relevant for safe use
Particle Size	Data not relevant for safe use
Particle Size Distribution	Data not relevant for safe use

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.

### 10.4. Conditions to avoid

Excessive heat.

### 10.5. Incompatible materials

None known.

**10.6. Hazardous decomposition products**

None known.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Test data is not available for the complete mixture.

**Classification procedure**

The method for classification of the mixture is based on ingredients of the mixture.

**Product Information****Inhalation****Eye contact****Skin contact****Ingestion**

No acute toxicity information is available for this product  
 Specific test data for the substance or mixture is not available.  
 Specific test data for the substance or mixture is not available.  
 Specific test data for the substance or mixture is not available.  
 Specific test data for the substance or mixture is not available.

**Information on toxicological effects****Symptoms**

No information available.

**Numerical measures of toxicity****Acute Toxicity**

Shall not be classified as acutely toxic.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation**

No information available.

**Serious eye damage/eye irritation**

No information available.

**Respiratory or skin sensitization**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

No information available.

**Reproductive Toxicity**

No information available.

**STOT - single exposure**

No information available.

**STOT - repeated exposure**

No information available.

**Aspiration hazard**

No information available.

**11.2. Endocrine disrupting properties**

This product does not contain known or suspected endocrine disruptors.

**SECTION 12: Ecological information****12.1. Ecotoxicity**

No information available.

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

No information available.

**12.6. Endocrine disrupting properties**

This product does not contain known or suspected endocrine disruptors.

**12.7 Other adverse effects**

Data not available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment 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>	Empty remaining contents. Dispose of contents/containers in accordance with local regulations. Do not reuse empty containers.
<b>Other Information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

**SECTION 14: Transport information**

**IMDG**

<b>14.1 UN Number</b>	Not dangerous goods
<b>14.2 Proper Shipping Name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing group</b>	Not regulated
<b>14.5 Marine Pollutant</b>	Not applicable
<b>14.6 Special Provisions</b>	None
<b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	Not applicable

**RID**

<b>14.1 UN-No.</b>	Not regulated
<b>14.2 Proper Shipping Name</b>	Not regulated
<b>14.3 Hazard Class</b>	Not regulated
<b>14.4 Packing Group</b>	Not regulated

14.5 Environmental hazard Not applicable  
 14.6 Special Provisions None

**ADR**

14.1 UN-No. UN3245  
 14.2 Proper Shipping Name Genetically Modified Micro-Organism  
 14.3 Hazard Class 9  
 14.4 Packing Group III  
 14.5 Environmental hazard Not applicable  
 14.6 Special Provisions None

**IATA**

14.1 UN-No. UN3245, UN1845  
 14.2 Proper Shipping Name Genetically Modified Micro-Organism, Carbon Dioxide, Solid  
 14.3 Hazard Class 9  
 14.4 Packing group III  
 14.5 Environmental hazard Not applicable  
 14.6 Special Provisions None No special precautions required

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

**Persistent Organic Pollutants**

Not applicable.

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable.

**International Inventories**

<b>TSCA</b>	Contact supplier for inventory compliance status.
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status.
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status.
<b>ENCS</b>	Contact supplier for inventory compliance status.
<b>IECSC</b>	Contact supplier for inventory compliance status.
<b>KECL</b>	Contact supplier for inventory compliance status.
<b>PICCS</b>	Contact supplier for inventory compliance status.
<b>AICS</b>	Contact supplier for inventory compliance status.

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List



**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

No information available.

## SECTION 16: Other information

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

#### Legend

SVHC: Substances of Very High Concern for Authorization:

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

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

#### Key literature references and sources for data

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

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This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 2020/2008.

#### 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

## Data for Regulatory Rules