



# Safety Data Sheet



Hep-CLS-1H□□ | 400197

- **Chemical hazards:**
  - Frozen cell cultures may contain 5 to 10% (v/v) dimethyl sulphoxide (DMSO). DMSO may be harmful if in contact with skin or ingested and is irritating to eyes and the respiratory system. Avoid contact with skin, eyes, digestive, and respiratory systems if thawed. PPE is required.
- **Physical hazards:**
  - Frozen vials may be pressurized due to trapped liquid nitrogen, posing a risk of explosion upon warming, especially if shipped in a liquid nitrogen container. Wear protective equipment when handling such packages.

## Classification according to Regulation (EC) No 1272/2008 (CLP):

- Not considered a hazardous mixture. No hazard statements.

## 2.2. Label elements:

- **Hazard statements:** None.
- **Precautionary statements:** None.

## 2.3. Other hazards:

- **PBT and vPvB assessment:** No data available.

---

## Section 3: Composition/information on ingredients

### 3.1. Substances:

- Not applicable.

### 3.2. Mixtures:

- **Description:** Various animal and human cell cultures at Biosafety Level 1 or 2. Frozen or growing cells are shipped in a yellow or pink liquid cell culture medium (pH 6-8) containing inorganic salts, vitamins, amino acids, carbohydrates, other nutrients, and phenol red dissolved in water. Frozen cultures may also contain 5-10% DMSO as a cryoprotectant.
- **Unit:** Cryovial (frozen liquid in a small plastic container) or flask (living cell culture in a plastic flask).
- **Hazardous ingredients:**

Non-Hazardous Ingredient(s)	Percentage (%)
Cell culture media, supplemented for freezing	60-80
FBS (Fetal Bovine Serum)	0-20
Cells	1

---

## Section 4: First aid measures

### 4.1. Description of first aid measures:

- **Ingestion:**
  - Rinse the mouth with water.
  - If the person is unconscious, seek emergency medical attention.
  - Avoid inducing vomiting unless directed by a medical professional.
- **Inhalation:**

- If the person is unconscious, seek emergency medical attention.
- Remove the person to fresh air.
- **Skin contact:**
  - Wash off immediately with plenty of water and soap.
  - Remove all contaminated clothing.
- **Eye contact:**
  - Flush eyes immediately with water for 10-15 minutes.

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

- Refer to Section 11.

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

- No special treatment needed; treat symptomatically.
- If exposed or concerned: Report to your Safety Officer and seek medical advice immediately.

---

## Section 5: Firefighting measures

### 5.1. Extinguishing media:

- **Suitable extinguishing media:** Choose extinguishing media based on surrounding fire.
- **Unsuitable extinguishing media:** No data available.

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

- During a fire, irritating and toxic gases may be generated by thermal decomposition. The inhalation of such combustion products can have serious adverse effects on health.

### 5.3. Advice for firefighters:

- Wear full protective clothing and self-contained breathing apparatus.

---

## Section 6: Accidental release measures

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

- **For non-emergency personnel:** Allow only well-trained experts wearing suitable protective clothing to remain in the field of accident.
- **For emergency responders:** Use personal protective equipment, including safety glasses, laboratory gloves, and appropriate laboratory clothing to prevent skin exposure. Do not open primary containers if not authorized.

### 6.2. Environmental precautions:

- Dispose of the spillage and resulting waste according to applicable environmental regulations. Do not allow the product or resulting waste to enter sewers, soil, surface, or groundwater. Notify respective authorities in case of environmental pollution immediately.

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







- **Acute toxicity:** Based on available data, the classification criteria are not met.
- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.
- **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.

### 11.1.1. Summaries of the information derived from the test conducted:

- No data available.

### 11.1.2. Relevant toxicological properties:

- **Toxicity data for DMSO:**

Route	LD50 (mg/kg)	Species
ORL-RAT	14500	Rat
ORL-MAM	21400	Mammal
IVN-MAN	686	Human
IPR-RAT	8200	Rat
IVN-MUS	3100	Mouse
ORL-BWD	100	Bird
IVN-DOG	2500	Dog

### 11.1.3. Information on likely routes of exposure:

- Ingestion, inhalation, skin contact, eye contact.

### 11.1.4. Symptoms related to the physical, chemical, and toxicological characteristics:

- No data available.

### 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:

- No data available.

### 11.1.6. Interactive effects:

- No data available.

### 11.1.7. Absence of specific data:

- The toxicological properties have not been fully reported.

### 11.1.8. Other information:







