

# Safety Data Sheet



**RPMI 1640, w: 4,5 g/L Glucose, w: 2 mM L-Glutamin  
, w: 10 mM HEPES, w: 1 mM Natriumpyruvat, w: 1,5  
g/L NaHCO<sub>3</sub> | 820702a**

## SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier:

Various Cell culture media supplied by the CLS Cell Lines Service GmbH. The relevant cell culture media data can be found on [www.cls.shop](http://www.cls.shop)

CLS Catalog Number: various

#### Relevant identified uses of the mixture and uses advised against:

For in vitro research use  
only.

For professional, industrial  
use.

Not for use in human, therapeutic or diagnostic applications.

### 1.2. Details of the supplier of the safety data sheet:

Information about the  
distributor/manufacturer: CLS Cell Lines

Service GmbH

Dr.-Eckener-Str. 8

69214

Eppelheim

Germany

Tel: +49(0)6221-700799

1.2.1. Responsible person: Jonathan  
SteubingE-mail: [info@cls.shop](mailto:info@cls.shop)

1.3. Emergency telephone number: +49(0)6221-700799

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the

#### mixture:

Categorized as noninfectious and non-toxic

GHS Symbol: NA

Signal Word: NA

HMIS Rating: Health: 0 Flammability: 0 Reactivity: 0

NFPA Rating: Health: 0 Flammability: 0 Reactivity: 0

#### Biological Hazards:

NA

#### Chemical Hazards:

NA

#### Physical Hazards:

NA

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

**Hazard statements:** No hazard statements.

### 2.2. Label elements:

**Hazard statements:** No hazard statements.

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**Precautionary statements:** No precautionary statements.

**2.3. Other hazards:**

Results of PBT and vPvB assessment: No data available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances:**

Not applicable.

**3.2. Mixtures:**

Description:

Cell culture media are clear transparent or yellow to red liquids (pH 6-8), which contain inorganic salts, vitamins, amino acids, carbohydrates, other nutrients dissolved in water, yellow to red liquids contain phenol red, additionally. Ready-to-use medium can contain Fetal Bovine Serum (FBS) and may be further supplemented with substances or mixtures for cell proliferation that are non-hazardous (according to i.a. EU-CLP or REGULATION (EC) No 1272/2008 and GHS standard).

**Hazardous ingredients:**

None listed in Annex VI of the Regulation (EC) No 1272/2008.

**Non-Hazardous Ingredient(s):**

Cell culture media

FBS (Fetal Bovine Serum)

## SECTION 4: FIRST AID MEASURES

**4.1. Description of first aid**

**measures:INGESTION:**

Measures:

- If the material was swallowed, rinse the mouth with water.
- If the person is unconscious seek emergency medical attention.
- Avoid vomiting unless directed by a medical doctor.

**INHALATION:**

Measures:

- If the person is unconscious seek emergency medical attention.
- Remove person to fresh air.

**SKIN CONTACT:**

Measures:

- Wash off immediately with plenty of water and soap.
- Remove all contaminated clothing.

**EYE CONTACT:**

Measures:

- Flush eyes immediately with water for 10-15 minutes.

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

See 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.

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## SECTION 5: FIREFIGHTING MEASURES

- 5.1. Extinguishing media:**
  - 5.1.1. Suitable extinguishing media:**

Choose extinguishing media depending on surrounding fire.
  - 5.1.2. 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:**
  - 6.1.1. For non-emergency personnel:**

Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.
  - 6.1.2. For emergency responders:**

Use personal protective equipment when working with the cell lines, 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 the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or groundwater. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.
- 6.3. Methods and material for containment and cleaning up:**

Clean contaminated surface thoroughly.  
Autoclave before disposal into appropriated containers. If spilled, follow appropriate cleaning procedure.  
Use absorbent material and disinfect.  
Wash contaminated clothing separately.  
Wash with soap and water. Additional personal protective equipment for cleaning may be mandatory.
- 6.4. Reference to other sections:**

For further and detailed information see Sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

- 7.1. Precautions for safe handling:**

Observe conventional hygiene precautions.  
Handle and store according to instructions on product information sheet.

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**Technical measures:**

Follow established laboratory procedures when handling. Open only under a sterile workbench.  
Wear protective equipment.  
Handle as if containing infectious material.

**Precautions against fire and explosion:**

No special measures required.

**7.2. Conditions for safe storage, including any incompatibilities: Technical measures and storage condition:**

Handle and store according to instructions on product information sheet. Keep bottles tightly closed in a dry place. Store at +2-8°C.

**Incompatible materials:** See Section 10.5

**Packaging material:** No special prescriptions.

**7.3. Specific end use(s):**

For in vitro research use only.  
For professional, industrial use.  
Not intended for clinical or diagnostic applications

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters:**

Occupational exposure limit values (Commission Directive (EC) No 2000/39 of 8 June 2000):  
The components of the mixture are not regulated with exposure limit value.

**8.2. Exposure controls:**

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

**8.2.1. Appropriate engineering controls:**

In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin.

**8.2.2. Individual protection measures, such as personal protective equipment:**

Avoid the contact with skin, eyes, and clothing. Keep away from food and drinks.  
Wash hands immediately after handling the product.

1. **Eye/face protection:** Use appropriate protective glasses (EN 166).

2. **Skin protection:**

a. **Hand protection:** Use appropriate protective gloves (EN 374).

b. **Other:** Wear a lab coat while handling the product.

3. **Respiratory protection:** Normally, no respiratory protective equipment is required. Use fume hood to keep airborne concentrations low. No exposure limits are known. European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

4. **Thermal hazards:** No thermal hazards known.

**8.2.3. Environmental exposure controls:**

No specific prescription.

**The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further**

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protective measures.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Parameter	Value / Test method / Remarks
1. Appearance:	frozen or liquid, no information available for cell cultures
2. Odour:	no data*
3. Odour threshold:	no data*
4. pH:	no data*
5. Melting point/freezing point:	no data*
6. Initial boiling point and boiling range:	no data*
7. Flash point:	no data*
8. Evaporation rate:	no data*
9. Flammability (solid, gas):	no data*
10. Upper/lower flammability or explosive limits:	no data*
11. Vapour pressure:	no data*
12. Vapour density:	no data*
13. Relative density:	no data*
14. Solubility(ies):	no data*
15. Partition coefficient: n-octanol/water:	no data*
16. Auto-ignition temperature:	no data*
17. Decomposition temperature:	no data*
18. Viscosity:	no data*
19. Explosive properties:	no data*
20. Oxidizing properties:	no data*

### 9.2. Other information:

Chemical Properties:

Cell culture media are clear transparent or yellow to red liquids (pH 6-8), containing inorganic salts, vitamins, amino acids, carbohydrates, other nutrients, and phenol red (except transparent liquids, phenol-red free) dissolved in water. Ready-to-use version media may contain FBS.

\*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

No reactivity known.

### 10.2. Chemical stability:

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions:

Hazardous polymerization: will not occur.

### 10.4. Conditions to avoid:

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No conditions to avoid known.

**10.5. Incompatible materials:**

No incompatible materials known.

**10.6. Hazardous decomposition products:**

No hazardous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1. Information on toxicological effects:**

**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:

ORL-RAT LD50 14500 mg kg <sup>-1</sup>	ORL-MAM LD50 21400 mg
kg <sup>-1</sup> IVN-MAN TDLO 686 mg kg <sup>-1</sup>	IPR-RAT LD50 8200 mg kg <sup>-1</sup>
IVN-MUS LD50 3100 mg kg <sup>-1</sup>	ORL-BWD LD50 100 mg kg <sup>-1</sup>
IVN-DOG LD50 2500 mg kg	

**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:**

No toxic or exposure data available for cell lines, however general protection procedures occur. Wear appropriate protection equipment.

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity:**

No data available.

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- 12.2. Persistence and degradability:**  
No data available.
- 12.3. Bioaccumulative potential:**  
No data available.
- 12.4. Mobility in soil:**  
No data available.
- 12.5. Results of PBT and vPvB assessment:**  
No data available.
- 12.6. Other adverse effects:**  
No data available.

## SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods:**  
Disposal according to the local regulations.
- 13.1.1. Information regarding the disposal of the product:**  
Follow established procedures for Containment (Biosafety) Level 1 and 2. Hazardous waste generators are required.  
Please check if discarded chemical is classified as a hazardous waste. Follow all national, regional and local regulations.  
**List of Waste Code:**  
No waste disposal key according to the List of Waste Code (LoW code) can be determined for this product, as only the purpose of application defined by the user enables an allocation. The LoW codenumber must be determined after a discussion with a waste disposal specialist.
- 13.1.2. Information regarding the disposal of the packaging:**  
Dispose of in accordance with applicable regulations.
- 13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:**  
No data available.
- 13.1.4. Sewage disposal:**  
No data available.
- 13.1.5. Special precautions for any recommended waste treatment:**  
No data available.

## SECTION 14: TRANSPORT INFORMATION

**ADR/RID; ADN; IMDG; IATA:**

**Not subject to the conventions of carriage of dangerous goods.**

- 14.1. UN Number:**  
No UN Number.
- 14.2. UN proper shipping name:**  
No proper shipping name.
- 14.3. Transport hazard class(es):**  
No transport hazard classes.
- 14.4. Packing group:**  
No packing group.
- 14.5. Environmental hazards:**  
No relevant information available.
- 14.6. Special precautions for user:**

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Additional information may occur for the carriage of Dangerous Goods by road and air, regarding classification, packaging, and labelling, as cryovials (deep-frozen ampoules) must be shipped on dry ice or liquid nitrogen. The package will indicate all required information.  
**Please contact the manufacturer in case of any questions regarding the transport.**

- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code:**  
Not applicable.

## SECTION 15: REGULATORY INFORMATION

- 15.1. Safety, health, and environmental regulations/legislation specific for the substance or mixture:**

**REGULATION (EC) No 1907/2006** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21

**REGULATION (EC) No 1272/2008** OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

**COMMISSION REGULATION (EU) No 2015/830** of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

All necessary licenses for import, holding, transfer and export are in place from CLS. Recipient only must provide evidence of permits and licenses required by law for receiving and handling. Substances are for research use only.

- 15.2. Chemical safety assessment:** No information.

## SECTION 16: OTHER INFORMATION

**Information regarding the revision of the safety data sheet:** No information.

**Literature references / data sources:**

Safety data sheet issued by the manufacturer (October 2020, English).

**Methods used for the classification according to Regulation (EC) No 1272/2008:**

Not considered as a hazardous mixture.

**Relevant hazard statements (code and full text) of Sections 2 and 3:**  
**H301** – Toxic if swallowed.

**H311** – Toxic in contact with skin.

**H319** – Causes serious eye irritation.

**H335** – May cause respiratory irritation.

**Training advice:** No data available.

**Full text of the abbreviations in the safety data sheet:**

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by



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Road.ATE: Acute Toxicity Estimate.

AOX: Adsorbable organic

halides.BCF: Bioconcentration  
factor.

BOD: Biological Oxygen Demand.

CAS number: Chemical Abstract Service number.

CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

CMR effects: Carcinogenic, mutagenic, reprotoxic  
effects.COD: Chemical Oxygen Demand.

CSA: Chemical Safety

Assessment.CSR: Chemical  
Safety Report.

DNEL: Derived-No-Effect-Level.

ECHA: European Chemical Agency.EC: European Community.

EC number: EINECS and ELINCS numbers (see also EINECS and  
ELINCS).EEC: European Economic Community.

EEA: European Economic Area (EU + Iceland, Liechtenstein, and  
Norway). EINECS: European Inventory of Existing Commercial Chemical  
Substances.ELINCS: European List of Notified Chemical Substances.

EN: European Norm.

EU: European Union.

EWG: European Waste Catalogue (replaced by LoW – see below).

GHS: Globally Harmonized System of Classification and Labelling of  
Chemicals.IATA: International Air Transport Association.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by  
Air.IMDG: International Maritime Dangerous Goods.

IMSBC: International Maritime Solid Bulk Cargoes.

IUCLID: International Uniform Chemical Information

Database.IUPAC: International Union of Pure and Applied  
Chemistry.

Kow: n-Octanol - Water Partition Coefficient.

LC50: Lethal concentration resulting in 50 % mortality.

LD50: Lethal dose resulting in 50 % mortality (median lethal  
dose).LoW: List of Waste.

LOEC: Lowest Observed Effect

Concentration.LOEL: Lowest Observed  
Effect Level.

NOEC: No Observed Effect

Concentration.NOEL: No Observed  
Effect Level.

NOAEC: No Observed Adverse Effect  
Concentration.NOAEL: No Observed Adverse  
Effect Level.

OECD: Organization for Economic Cooperation and  
Development.OSHA: Occupational Safety and Health  
Administration.

PBT: Persistent, Bioaccumulative and  
Toxic.PNEC: Predicted No Effect

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g/L NaHCO<sub>3</sub> | 820702a**

Concentration.

QSAR: Quantitative Structure Activity Relationship.

REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

RID: Regulations Concerning the International Transport of Dangerous Goods by

Rail.SCBA: Self Contained Breathing Apparatus.

SDS: Safety Data Sheet.

STOT: Specific Target Organ Toxicity.

SVHC: Substances of Very High

Concern.UN: United Nations.

UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.

VOC: Volatile Organic Compound.

vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared by MSDS-Europe (International branch of Toxinfo Kft. on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations. Professional help regarding the explanation of the safety data sheet: +36 70 335 8480; [info@msds-europe.com](mailto:info@msds-europe.com) [www.msds-europe.com](http://www.msds-europe.com). The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources, and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information. The MSDS shall be used only as a guide for handling the product; while handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national, and international regulations concerning the use of this product. Biological material may be hazardous and should be used with caution. CLS Cell Lines Service GmbH shall not be held liable for any damage resulting from handling or from contact with the product.