



# Safety Data Sheet

According to Regulation (EC) No 1907/2006

|               |            |
|---------------|------------|
| Version       | 1.0 / EN   |
| Revision date | 2025-09-10 |
| Valid after   | 2025-09-10 |

## 1. Identification of the Substance/Mixture and of the Company

### 1.1 Product Identifier

Trade name: abberior CELL LINE – Mito-SNAP / ER-Halo  
(article number: CELLS-0001-1VIAL)

### 1.2 Relevant identified uses and uses advised against

This product is a cell line that is stored frozen or maintained in culture in accordance with Biosafety Level 1 (BSL 1).

This cell line for in vitro research purposes only, and for professional, industrial use.

This product is sold for research and development purposes only and *must not* be used for any human or animal therapeutic, clinical diagnostic or other medical purpose. It is not intended for food, drug, household, agricultural, or cosmetic use.

### 1.3 Details of the Supplier of the Safety Data Sheet

#### Manufacturer / Distributor

Abberior GmbH

#### Street / PO Box

Hans-Adolf-Krebs-Weg 6

#### Country Code / Postal Code / City

DE – 37077 Göttingen, Germany

#### Contact for Technical Inquiries

info@abberior.com

#### Phone / Fax

+49 551 9995 4011 / +49 551 9995 4098

### 1.4 Emergency Telephone Numbers

Emergency Phone #: **0800 181 7059** (CHEMTREC Germany)  
**+49 (0)696 43508409** (CHEMTREC worldwide)

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## 2. Hazards Identification

### 2.1 Classification of the Substance or Mixture

#### Biological hazards – Biosafety Level 1 Cell Cultures

To ensure safety, handle this material with care and under Biosafety Level 1 conditions. Although it is not known to cause disease in healthy humans, the risk cannot be completely ruled out. Please use appropriate personal protective equipment (PPE).

#### Chemical hazards

Frozen cell cultures contain 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 system if thawed. PPE is required.

#### Physical hazards

Frozen vials may be pressurized due to trapped liquid nitrogen, posing risk of explosion upon warming. Wear protective equipment when handling such packages.

### 2.2 Labelling Elements according Regulation (EC) No 1272/2008

#### Hazard Statements (H-phrases)

Not considered a hazardous mixture. No hazard statements.

#### Precautionary Statements (P-phrases)

No precautionary statements.

### 2.3 Other Hazards

**Bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB) assessment:** No data available.

## 3. Composition/Information on Ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

#### Description

Various animal and human cell cultures at Biosafety Level 1. Frozen cells are shipped in a yellow or pink frozen liquid cell culture medium (pH 6-8) containing inorganic salts, vitamins, amino



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acids, carbohydrates, other nutrients, and phenol red dissolved in water. Frozen cultures also contain 10% DMSO as a cryoprotectant.

## Unit

Cryovial (frozen liquid in a small plastic container).

| Hazardous ingredient(s)                                   | Percentage (%) |
|---|----------------|
| DMSO  | 10%            |
| Non-Hazardous ingredient(s)                               | Percentage (%) |
| Cell culture media, supplemented for freezing without FBS | 49%            |
| FBS (Fetal Bovine Serum)                                  | 40%            |
| Cells   | 1%             |

## 4. First Aid Measures

### 4.1 Description of First Aid Measures

General information: Consult a doctor. Show this safety data sheet to the attending physician.

#### Following Inhalation

Fresh air. If the person is unconscious, seek emergency medical attention and remove the person to fresh air.

#### Following Skin Contact

Take off immediately all contaminated clothing. Wash skin immediately with plenty of soap and water/shower.

#### Following Eye Contact

Remove contact lenses. Immediately rinse with plenty of water, also under the eyelid. Proceed for at least 15 minutes. Consult an ophthalmologist.

#### Following Ingestion

Immediately rinse your mouth with water. If the person is unconscious, seek emergency medical attention. Avoid vomiting unless directed by a medical professional.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.



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## 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.

## 5. Fire-Fighting Measures

### 5.1 Extinguishing Media

**Suitable:** Choose extinguishing media based on surrounding fire.

**Unsuitable:** No data available.

### 5.2 Special Hazards Arising from the Substance or Mixture

During a fire, irritable 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 Fire-Fighters

Wear self-contained breathing apparatus. Cool endangered containers with water spray from a safe distance. Defeat evolving vapors with water. Keep quench water away from drains, surface, and ground water and soil. Wear full protective clothing to avoid skin contact; stay in safe distance.

## 6. Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

**Advice for non-emergency personnel:** Allow only well-trained experts wearing suitable protective clothing to remain in the field of accident. For personal protection see section 8.

**Advice 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. For personal protection see section 8.

### 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

Cover drains. Collect, bind, and pump off spills. Clean up contaminated area thoroughly. Autoclave before disposal into appropriate containers. Follow appropriate cleaning procedures

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if spilled. 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

**Personal protective equipment:** see section 8

**Disposal:** see section 13

## 7. Handling and Storage

### 7.1 Precautions for Safe Handling

Handle and store according to instructions on the product datasheet.

#### Technical measures

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

#### Hygiene measures

Observe conventional hygiene precautions.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling product.

For precautions see section 2.2.

#### Precautions against fire and explosion

No special measures required.

### 7.2 Conditions for Safe Storage, Including any Incompatibilities

#### Technical measures and storage conditions

Handle and store according to instructions on the product datasheet. Keep cryovials at -150°C (freezer) or at -196°C (liquid nitrogen vapor phase).

#### Incompatible materials

See Section 10.5

#### Packaging material

No special prescriptions.

### 7.3 Specific End Use(s)

No specific instructions available.

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## 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.

#### DNEL values

| Exposure            | Oral exposure      |                     | Dermal exposure    |                     | Inhalative exposure |                     |
|---------------------|--------------------|---------------------|--------------------|---------------------|---------------------|---------------------|
|                     | Short term (acute) | Long term (chronic) | Short term (acute) | Long term (chronic) | Short term (acute)  | Long term (chronic) |
| Consumer (Local)    | No data            | No data             | No data            | No data             | No data             | No data             |
| Consumer (Systemic) | No data            | No data             | No data            | No data             | No data             | No data             |
| Worker (Lokal)      | No data            | No data             | No data            | No data             | No data             | No data             |
| Worker (Systemic)   | No data            | No data             | No data            | No data             | No data             | No data             |

#### PNEC values

| Compartment                  | Value   | Note(s)  |
|------------------------------|---------|----------|
| Freshwater                   | No data | No notes |
| Marine water                 | No data | No notes |
| Sediment                     | No data | No notes |
| Marine water sediment        | No data | No notes |
| Sewage Treatment Plant (STP) | No data | No notes |
| Intermittent release         | No data | No notes |
| Secondary poisoning          | No data | No notes |
| Soil                         | No data | No notes |

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## 8.2 Exposure Controls

### Appropriate engineering controls

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

### Personal protective equipment

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

### Respiratory Protection

No respiratory protective equipment is required. Use a 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.

### Skin Protection

The suitable protective gloves must meet the specification of the EC Directive 2016/425 and the standard derived from it according to EN 374.

Gloves must be inspected for damage before use. Use an appropriate removal method to avoid skin contact. Disposal of the contaminated gloves after use within the framework of legal regulations. Washing and drying the hands after work.

Wear a lab coat while handling the product.

### Eye / Face Protection

Wear face shield and/or safety goggles. Use only equipment that has been tested and approved to government standard. Need product only with standard NIOSH (US) or EN 166 (EU).

### Thermal hazards

No thermal hazards known.

## 8.3 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, expert advice is necessary before deciding on further protective measures.

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## 9. Physical and Chemical Properties

### 9.1 Basic Physical and Chemical Properties

|  |  |
|--|--|
| <b>Physical state:</b>                               | powder   |
| <b>Solubility:</b>                                   | DMF, DMSO, Alcohols, Acetonitrile                  |
| <b>Appearance:</b>                                   | Frozen; no information available for cell cultures |
| <b>Odour:</b>  | No data*   |
| <b>Odour threshold:</b>                              | No data*   |
| <b>pH:</b>   | No data*   |
| <b>Melting point/freezing point:</b>                 | No data*   |
| <b>Initial boiling point and boiling range:</b>      | No data*   |
| <b>Flash point:</b>                                  | No data*   |
| <b>Evaporation rate:</b>                             | No data*   |
| <b>Flammability (solid, gas):</b>                    | No data*   |
| <b>Upper/lower flammability or explosive limits:</b> | No data*   |
| <b>Vapour pressure:</b>                              | No data*   |
| <b>Vapour density:</b>                               | No data*   |
| <b>Relative density:</b>                             | No data*   |
| <b>Solubility(ies):</b>                              | No data*   |
| <b>Partition coefficient:</b>                        | No data*   |
| <b>Auto-ignition temperature:</b>                    | No data*   |
| <b>Decomposition temperature:</b>                    | No data*   |
| <b>Viscosity:</b>                                    | No data*   |
| <b>Explosive properties:</b>                         | No data*   |
| <b>Oxidizing properties:</b>                         | No data*   |

\*: 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.

### 9.2 Other Properties

#### Chemical Properties

Frozen cell cultures contain DMSO. DMSO is stable and incompatible with a wide range of materials, including acid chlorides, strong acids, strong oxidizing agents, strong reducing agents, phosphorus halides, moisture, copper wool + trichloroacetic acid, and hygroscopic materials.

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## 10. Stability and Reactivity

### 10.1 Reactivity

No reactivity known.

### 10.2 Chemical Stability

The product is chemically stable under ambient conditions (room temperature).

### 10.3 Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### 10.4 Conditions to Avoid

No conditions to avoid known.

### 10.5 Incompatible Materials

No incompatible materials known.

### 10.6 Hazardous Decomposition Products

No hazardous decomposition products known.

## 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.

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## Carcinogenicity

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

## Reproductive Toxicity

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

## Specific Target Organ Toxicity – single exposure

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

## Specific Target Organ Toxicity – 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. 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     |

### 11.1.2. Information on likely routes of exposure

Ingestion, inhalation, skin contact, eye contact.

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

No data available.

### 11.1.4. Delayed and immediate effects as well as chronic effects from short and long-



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## **term exposure**

No data available.

### **11.1.5. Interactive effects**

No data available.

### **11.1.6. Absence of specific data**

The toxicological properties have not been fully reported.

### **11.1.7. Other information**

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

## **12. Ecological Information**

### **12.1 Toxicity**

No data available.

### **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.



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## 13. Disposal Considerations

### 13.1 Waste Treatment Methods

#### Information regarding the disposal of the product

Follow established procedures for Containment (Biosafety) Level 1. Hazardous waste generators are required. Please check if discarded chemical is classified as 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 code number must be determined after a discussion with a waste disposal specialist.

#### Information regarding the disposal of the packaging

Dispose of in accordance with applicable regulations.

#### Physical/chemical properties that may affect waste treatment options

No data available.

#### Sewage disposal

No data available.

#### Special precautions for any recommended waste treatment

No data available.

## 14. Transport Information

### 14.1 UN Number

No UN Number

### 14.2 UN Proper Shipping Name

No UN proper shipping name.

### 14.3 Transport Hazard Class(es)

No transport hazard classes.

### 14.4 Packaging Group

No packing group.



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## 14.5 Environmental Hazards

No relevant information available.

## 14.6 Special Precautions for User

See sections 6 – 8.

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

## 14.6 Transport in bulk according to Annex II of MARPOL and the IBC Code:

Not applicable.

## 15. Regulatory Information

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### Applicable Regulations:

- 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, labeling, 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. The recipient 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 available.



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### 16. Other Information

This product is intended for use only by persons with proper skills and at their own risk. It is the responsibility of the user to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. The recommendations given in this data sheet are based on prudent application of professional judgment. The information is given as a guide but shall not be taken as complete. As this product may pose unknown hazards it should be used with caution. Since Abberior GmbH cannot control the conditions of use of the product, it shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SAFETY DATA SHEET DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

#### Contact

Abberior GmbH  
Hans-Adolf-Krebs-Weg 6  
37077 Göttingen  
Tel. +49 551 9995 4011  
E-Mail: [info@abberior.com](mailto:info@abberior.com)

#### Internetseite

[www.abberior.rocks](http://www.abberior.rocks)