





- 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.

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## 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.

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## 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:

- Clean contaminated surfaces thoroughly.
- Autoclave before disposal into appropriate containers. Follow appropriate cleaning procedures 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:**

- 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 the product information sheet.
- **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 conditions:** Handle and store according to instructions on the product information sheet. 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.

**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.

**DNEL values:**

| Exposure            | Dermal exposure    |                     | Inhalative 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 (Local)      | 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  
 Freshwater

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 |

**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.
- **Individual protection measures, such as personal protective equipment:** Avoid contact with skin, eyes, and clothing. Keep away from food and drinks. Wash hands immediately after handling the product.
  - **Eye/face protection:** Use appropriate protective glasses (EN 166).
  - **Skin protection:**
    - **Hand protection:** Use appropriate protective gloves (EN 374).
    - **Other:** Wear a lab coat while handling the product.
  - **Respiratory protection:** Normally, 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.
  - **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, expert advice is necessary before deciding on further protective measures.

**Section 9: Physical and chemical properties**

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

| Parameter                                    | Value / Test method / Remarks                                |
|--|--|
| Appearance                                   | Frozen or liquid; no information available for cell cultures |
| Odour  | No data*   |
| Odour threshold                              | No data*   |
| pH   | No data*   |
| Melting point/freezing point                 | No data*   |
| Initial boiling point and boiling range      | No data*   |
| Flash point                                  | No data*   |
| Evaporation rate                             | No data*   |
| Flammability (solid, gas)                    | No data*   |
| Upper/lower flammability or explosive limits | No data*   |
| Vapour pressure                              | No data*   |
| Vapour density                               | No data*   |





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

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### Section 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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### Section 13: Disposal considerations

#### 13.1. Waste treatment methods:

- **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 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.

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### Section 14: Transport information

#### 14.1. UN Number:

- No UN Number.





