Section 1. Chemical product and company identification

<table>
<thead>
<tr>
<th>Common name</th>
<th>Ultroser® G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonym</td>
<td>Serum substitute.</td>
</tr>
<tr>
<td>Code</td>
<td>15950</td>
</tr>
<tr>
<td>Material uses</td>
<td>Serum substitute for animal cell culture.</td>
</tr>
<tr>
<td>Contact in France</td>
<td>Pall France</td>
</tr>
<tr>
<td></td>
<td>48 Avenue des Genottes</td>
</tr>
<tr>
<td></td>
<td>F-95800 Cergy St Christophe</td>
</tr>
<tr>
<td></td>
<td>Tel : +33-1-3420-7800</td>
</tr>
<tr>
<td>Contact in US</td>
<td>Pall Corporation</td>
</tr>
<tr>
<td></td>
<td>2200 Northern Blvd</td>
</tr>
<tr>
<td></td>
<td>East Hills, NY 11548</td>
</tr>
<tr>
<td></td>
<td>Tel : +1 516 484 5400</td>
</tr>
<tr>
<td>In case of emergency</td>
<td>CHEMTREC: 800-424-9300</td>
</tr>
</tbody>
</table>

Section 2. Hazards identification

- Physical state: Delivered under lyophilized form/liquid after resolubilization.
- Odor: Odorless.
- Color: Pink solution.
- Hazard status: This material is classified as not hazardous under OSHA regulations.
- Emergency overview: No specific hazard. Follow good industrial hygiene practice.
- Routes of entry: Dermal contact. Eye contact. Inhalation.

Potential acute health effects

- Eyes: Slightly irritating to the eyes.
- Skin: No known significant effects or critical hazards.
- Inhalation: No known significant effects or critical hazards.
- Ingestion: No known significant effects or critical hazards.

Potential chronic health effects

- Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
- Mutagenic effects: Not available.
- Teratogenic effects: Not available.

Medical conditions aggravated by over-exposure

- Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation.

See toxicological information (section 11)

Section 3. Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>United States</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
</tr>
<tr>
<td>No hazardous ingredient</td>
</tr>
</tbody>
</table>

See Sections 8, 11 and 14 for details.
Section 4. First aid measures

**Eye contact**
- Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.

**Skin contact**
- Wash with soap and water. Get medical attention if symptoms occur.

**Inhalation**
- If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms appear.

**Ingestion**
- Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

**Notes to physician**
- No specific antidote. Medical staff must contact Poison Control Center.

Section 5. Fire fighting measures

**Extinguishing media**
- Use an extinguishing agent suitable for the surrounding fire.

**Special protective equipment for fire-fighters**
- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

**Personal precautions**
- Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

**Environmental precautions**
- Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.

**Methods for cleaning up**
- If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

**Handling**
- Wash thoroughly after handling.

**Storage**

Section 8. Exposure controls, personal protection

Consult local authorities for acceptable exposure limits.

**Personal protection**

<table>
<thead>
<tr>
<th>Type</th>
<th>Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Safety glasses.</td>
</tr>
<tr>
<td>Skin</td>
<td>Lab coat.</td>
</tr>
<tr>
<td>Respiratory</td>
<td>A respirator is not needed under normal and intended conditions of product use.</td>
</tr>
<tr>
<td>Hands</td>
<td>Disposable vinyl gloves.</td>
</tr>
</tbody>
</table>

**HMIS Code/Personal protective equipment**
- A

**Personal protection in case of a large spill**
- Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear NIOSH-approved self-contained breathing apparatus or equivalent and full protective gear.

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Hygiene measures: Wash hands, forearms and face thoroughly after handling compounds and before eating, smoking and using the lavatory and at the end of the day. Follow good industrial hygiene practice.

Section 9. Physical and chemical properties

Physical state: Delivered under lyophilized form/liquid after resolubilization.
Color: Pink solution.
Odor: Odorless.

Section 10. Stability and reactivity

Stability and reactivity: The product is stable.
Incompatibility with various substances: Reactive with oxidizing materials.
Hazardous polymerization: Will not occur.
Conditions of reactivity: Not available.

Section 11. Toxicological information

Acute Effects
Eyes: Slightly irritating to the eyes.
Skin: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.
Potential chronic health effects: Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
          Mutagenic effects: Not available.
          Teratogenic effects: Not available.

Section 12. Ecological information

Environmental precautions: No known significant effects or critical hazards.
Products of degradation: These products are carbon oxides.

Section 13. Disposal considerations

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements.

Section 14. Transport information

Regulatory information
UN/IMDG/IATA/DOT: Not regulated.

Section 15. Regulatory information

United States
HCS Classification: Not regulated.
U.S. Federal regulations: TSCA: All components listed.
Section 16. Other information

Hazardous Material Information System (U.S.A.)

<table>
<thead>
<tr>
<th>HMIS RATING</th>
<th>HAZARD RATINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>4- Extreme</td>
</tr>
<tr>
<td>Fire hazard</td>
<td>3- Serious</td>
</tr>
<tr>
<td>Physical Hazard</td>
<td>2- Moderate</td>
</tr>
<tr>
<td>Personal protection</td>
<td>1- Slight</td>
</tr>
<tr>
<td></td>
<td>0- Minimal</td>
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</tbody>
</table>

National Fire Protection Association (U.S.A.)

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Reactivity</th>
<th>Special</th>
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<tbody>
<tr>
<td>0</td>
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References


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