SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

<table>
<thead>
<tr>
<th>Product code</th>
<th>P36930</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>ProLong® Gold antifade reagent</td>
</tr>
</tbody>
</table>

Company/undertaking identification

Life Technologies Corporation          Life Technologies
5781 Van Allen Way                5250 Mainway Drive
PO Box 6482                        Burlington, ONT
Carlsbad, CA 92008               CANADA L7L 6A4
+1 760 603 7200                   800/263-6236

24 hour Emergency Response:    866-536-0631
                                301-431-8585
Country specific Emergency Number (if available): CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

For Research Use Only. Not for use in diagnostic procedures.

SECTION 2: Hazards identification

GHS - Classification

Signal Word
None

Health hazards
Not classified

Physical hazards
Not classified

Hazard Statements
Not Applicable

Precautionary Statements
Not Applicable

Principle Routes of Exposure

Potential Health Effects

eyes
May cause eye irritation with susceptible persons.
Skin May cause skin irritation in susceptible persons.

Inhalation May be harmful by inhalation.

Ingestion May be harmful if swallowed.

Specific effects
Carcinogenic effects None.
Mutagenic effects None.
Reproductive toxicity None.
Sensitization None.

Target Organ Effects None under normal use conditions.

HMIS

| Health | 0 |
| Flammability | 0 |
| Reactivity | 0 |

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>EINECS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>56-81-5</td>
<td>200-289-5</td>
<td>15-40</td>
</tr>
</tbody>
</table>

The product contains no substances which at their given concentration, are considered to be hazardous to health.

SECTION 4: First aid measures

Skin contact Rinse cautiously with water for several minutes. If symptoms occur, obtain medical advice.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

Ingestion Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Do not induce vomiting without medical advice.

inhalation Remove to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration.

Most important symptoms and effects, both acute and delayed
Not Applicable

Notes to Physician Treat symptomatically.

SECTION 5: Firefighting measures


Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit.

Specific hazards arising from the chemical Not known

SECTION 6: Accidental release measures

Personal precautions Use personal protection equipment.

Methods for cleaning up Soak up with inert absorbent material.

Environmental precautions
Prevent further leakage or spillage if safe to do so.

See Section 12 for more information.

SECTION 7: Handling and storage

Handling
Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

Storage
Keep in a dry, cool and well-ventilated place.

SECTION 8: Exposure controls/personal protection

Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>OSHA PEL (Ceiling)</th>
<th>ACGIH OEL (TWA)</th>
<th>ACGIH OEL (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>15 mg/m³</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>5 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Engineering measures
Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution’s risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection
Impervious gloves.

Eye protection
Wear safety glasses with side shields (or goggles).

Skin and Body Protection
Lightweight protective clothing.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls

No special environmental precautions required.

SECTION 9: Physical and chemical properties

General information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>No information available</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>°C &gt;100 °F &gt;212</td>
</tr>
<tr>
<td>Melting point / melting range</td>
<td>°C &gt;0 °F &gt;32</td>
</tr>
<tr>
<td>flash point</td>
<td>°C &gt;90 °F &gt;160</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Revision date 19-Feb-2016
Product code P36930
Product name ProLong® Gold antifade reagent

www.thermofisher.com
SECTION 10: Stability and reactivity

Stability
Stable under normal conditions.

Materials to avoid

Possibility of hazardous reactions
Hazardous reaction has not been reported

Hazardous decomposition products
Carbon oxides.

polymerization
Hazardous polymerization does not occur.

Conditions to avoid
None under normal processing.

SECTION 11: Toxicological information

Acute Toxicity

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 (oral, rat/mouse)</th>
<th>LD50 (dermal, rat/rabbit)</th>
<th>LC50 (inhalation, rat/mouse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>= 12600 mg/kg Oral</td>
<td>No data available</td>
<td>&gt;570 mg/m³ (Rat)</td>
</tr>
</tbody>
</table>

Principle Routes of Exposure

Potential Health Effects

- **eyes**: May cause eye irritation with susceptible persons.
- **Skin**: May cause skin irritation in susceptible persons.
- **inhalation**: May be harmful by inhalation.
- **Ingestion**: May be harmful if swallowed.

Carcinogenic effects
None.

Mutagenic effects
None.

Reproductive toxicity
None.

Sensitization
None.

Target Organ Effects
None under normal use conditions

SECTION 12: Ecological information

Ecotoxicity
The environmental impact of this product has not been fully investigated.

Acute aquatic toxicity
Not classified for acute.

Chronic aquatic toxicity
Not classified chronic.

Mobility
see log Pow.

Biodegradation
Inherently biodegradable.

Bioaccumulation
Material does not bioaccumulate.
<table>
<thead>
<tr>
<th>Data</th>
<th>Species Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td></td>
<td>EC50 &gt; 500 mg/L (24 h)</td>
</tr>
<tr>
<td></td>
<td>logPow - 1.76</td>
</tr>
</tbody>
</table>

**SECTION 13: Disposal considerations**

Dispose of contents/containers in accordance with local regulations.

**SECTION 14: Transport information**

**IATA**

- **Proper Shipping Name**: No dangerous good in sense of these transport regulations
- **Hazard Class**: None
- **Subsidiary class**: None
- **Packing group**: None
- **UN-No**: none
- **Environmental hazards**: None

**SECTION 15: Regulatory information**

<table>
<thead>
<tr>
<th>Component</th>
<th>US TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycerol</td>
<td>Listed</td>
</tr>
<tr>
<td>56-81-5</td>
<td></td>
</tr>
</tbody>
</table>

**US Federal Regulations**

**SARA 313**
This product is not regulated by SARA.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**
This product does not contain HAPs.

**US State Regulations**

**California Proposition 65**
This product does not contain any Proposition 65 chemicals.

**WHMIS Hazard Class**
Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**SECTION 16: Other information**

**Reason for revision**
SDS sections updated.

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*The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be
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End of Safety Data Sheet