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

Identification of the substance or mixture

Product code L7012COMPONENTA
Product name 3.34 mM SYTO® 9 nucleic acid stain

Company/undertaking identification

Life Technologies Corporation
5781 Van Allen Way
PO Box 6482
Carlsbad, CA 92008
+1 760 603 7200

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

24 hour Emergency Response for Hazardous Materials Within the USA + Canada: 1-800-424-9300 and +1 703-527-3887
Outside the USA + Canada: +1 703-741-5970

Country specific Emergency Number (if available):
CHEMTREC Brazil (Rio De Janeiro) +(55)-2139581449 (português)

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

SECTION 2: Hazards identification

GHS - Classification

Signal Word WARNING

Health hazards
Not Hazardous

Physical hazards

<table>
<thead>
<tr>
<th>GHS Physical Hazard 1</th>
<th>Flammable liquids</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHS Physical Hazard Category Number</td>
<td>Category 4</td>
</tr>
</tbody>
</table>

Hazard Statements
H227 - Combustible liquid

Precautionary Statements

Prevention
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
Storage
Not Applicable

Disposal
Not Applicable

**Principle Routes of Exposure**
**Potential Health Effects**

- **eyes**
  - Mild eye irritation.

- **Skin**
  - Mild skin irritation. Components of the product may be absorbed into the body through the skin.

**Specific effects**

- **Carcinogenic effects**
  - None.

- **Mutagenic effects**
  - Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment.

- **Reproductive toxicity**
  - None.

- **Sensitization**
  - No sensitization responses were observed.

**Target Organ Effects**
- No known effects under normal use conditions.

<table>
<thead>
<tr>
<th>HMIS</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>1</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

**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>dimethylsulfoxide</td>
<td>67-68-5</td>
<td>200-664-3</td>
<td>95-100</td>
</tr>
<tr>
<td>SYTO® 9 nucleic acid stain</td>
<td>NONE</td>
<td>-</td>
<td>&lt;0.5</td>
</tr>
</tbody>
</table>

We recommend handling all chemicals with caution.

**SECTION 4: First aid measures**

- **Skin contact**
  - Wash off immediately with plenty of water. If symptoms occur, obtain medical advice.

- **Eye contact**
  - Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary.

- **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**

H227 - Combustible liquid

**Notes to Physician**
- Treat symptomatically.

**SECTION 5: Firefighting measures**
Suitable extinguishing media

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
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protection equipment.

Methods for cleaning up
Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

Environmental precautions
No special environmental precautions required.
See Section 12 for more information.

SECTION 7: Handling and storage

Handling
Avoid contact with skin and eyes. Always wear recommended Personal Protective Equipment.

Storage
Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Do not store near combustible materials. Keep in properly labeled containers.

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>dimethylsulfoxide</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>SYTO® 9 nucleic acid stain</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</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 butyl rubber gloves. Nitrile gloves are not recommended. Some brands of Nitrile gloves have breakthrough times of five minutes.

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 188 - 190 °F 370 - 374</td>
</tr>
<tr>
<td>Melting point / melting range</td>
<td>°C 18 - 19 °F 64.4 - 66.2</td>
</tr>
<tr>
<td>Flash point</td>
<td>°C 87 - 89 °F 188.6 - 192.2</td>
</tr>
<tr>
<td>Autoionization Temperature</td>
<td>°C 214 - 216 °F 417.2 - 420.8</td>
</tr>
<tr>
<td>Water solubility</td>
<td>miscible</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>61% - 64%</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>2.4% - 2.8%</td>
</tr>
</tbody>
</table>

Evaporation rate: No data available
Oxidizing properties: No data available
Flammability (solid, gas): No data available
Partition coefficient: No data available
Viscosity: No data available
pH value: No data available

SECTION 10: Stability and reactivity

Stability
Stable under normal conditions.

Materials to avoid
Strong acids. Strong oxidizing agents.

Possibility of hazardous reactions
Hazardous reaction has not been reported

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. Sulphur oxides. Carbon oxides.

polymerization
Hazardous polymerization does not occur.

Conditions to avoid
None under normal processing.

SECTION 11: Toxicological information

Acute Toxicity
To the best of our knowledge, the chemical, physical, biological, and toxicological properties of this product have not been thoroughly investigated.

<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>dimethylsulfoxide</td>
<td>14500 mg/kg Oral LD50</td>
<td>&gt;40000 mg/kg bw</td>
<td>&gt;5000 mg/l</td>
</tr>
<tr>
<td>SYTO® 9 nucleic acid stain</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Principle Routes of Exposure

Revision date 28-Jul-2016
Product code L7012COMPONENTA

www.thermofisher.com
### Potential Health Effects

<table>
<thead>
<tr>
<th>Component</th>
<th>Effect</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Mild eye irritation.</td>
<td></td>
</tr>
<tr>
<td>Skin</td>
<td>Mild skin irritation. Components of the product may be absorbed into the body through the skin.</td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>No information available.</td>
<td></td>
</tr>
<tr>
<td>Ingestion</td>
<td>No information available.</td>
<td></td>
</tr>
</tbody>
</table>

**Carcinogenic effects**: None.

**Mutagenic effects**: Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment.

**Reproductive toxicity**: None.

**Sensitization**: No sensitization responses were observed.

### SECTION 12: Ecological information

**Ecotoxicity**: Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**Mobility**: Completely soluble. See log Pow.

**Biodegradation**: Inherently biodegradable.

**Bioaccumulation**: Material does not bioaccumulate.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Freshwater Algae Data</th>
<th>Water Flea Data</th>
<th>Freshwater Fish Species Data</th>
<th>Microtox Data</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethylsulfoxide</td>
<td>Skeletonema costatum EC50=2350 - 25500 mg/L (96 h)</td>
<td>Daphnia species EC50=7000 mg/L (24 h)</td>
<td></td>
<td></td>
<td>logPow=2.03</td>
</tr>
</tbody>
</table>

### SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

### SECTION 14: Transport information

**IATA**

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>Hazard Class</th>
<th>Subsidiary class</th>
<th>Packing group</th>
<th>UN-No</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>No dangerous good in sense of these transport regulations</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>none</td>
<td>None</td>
</tr>
</tbody>
</table>
SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Component</th>
<th>US TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethylsulfoxide</td>
<td>Listed</td>
</tr>
<tr>
<td>67-68-5 ( 95-100 )</td>
<td></td>
</tr>
<tr>
<td>SYTO® 9 nucleic acid stain</td>
<td>NONE (&lt;0.5)</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
B3 - Combustible liquid

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.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

"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 used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company 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 SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PUPOSE"
SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code        L7012COMPONENTB
Product name        20 mM propidium iodide *solution in DMSO*

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 for Hazardous Materials
Within the USA + Canada: 1-800-424-9300 and +1
[or Dangerous Goods] Incident. Spill, Leak, Fire,
Exposure, or Accident. Call CHEMTREC
703-527-3887
Outside the USA + Canada: +1 703-741-5970

Country specific Emergency Number (if available):
CHEMTREC Brazil (Rio De Janeiro)  +(55)-2139581449 (português)

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

SECTION 2: Hazards identification

GHS - Classification

Signal Word
DANGER

Health hazards
Skin corrosion/irritation  Category 3
Mutagenicity  Mutagenic category 2

Physical hazards
GHS Physical Hazard 1  Flammable liquids
GHS Physical Hazard Category Number  Category 4

Hazard Statements
H227 - Combustible liquid
H341 - Suspected of causing genetic defects
H316 - Causes mild skin irritation

Precautionary Statements
Prevention
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood

Revision date  28-Jul-2016
Product code  L7012COMPONENTB
Product name  20 mM propidium iodide *solution in DMSO*

www.thermofisher.com
P280 - Wear protective gloves/protective clothing/eye protection/face protection

Response
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P332 + P313 - If skin irritation occurs: Get medical advice/attention

Storage
P403 - Store in a well-ventilated place

Disposal
P501 - Dispose of contents/container to an approved waste disposal plant

Principle Routes of Exposure

Potential Health Effects

<table>
<thead>
<tr>
<th>Route</th>
<th>Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>eyes</td>
<td>Mild eye irritation.</td>
</tr>
<tr>
<td>Skin</td>
<td>May cause skin irritation in susceptible persons. Components of the product may be absorbed into the body through the skin.</td>
</tr>
<tr>
<td>inhalation</td>
<td>May be harmful by inhalation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May be harmful if swallowed.</td>
</tr>
</tbody>
</table>

Specific effects

- Carcinogenic effects: None.
- Mutagenic effects: Contains a known or suspected mutagen.
- Reproductive toxicity: None.
- Sensitization: May cause sensitization by inhalation.

Target Organ Effects: No known effects under normal use conditions.

HMIS

<table>
<thead>
<tr>
<th>Category</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>4</td>
</tr>
<tr>
<td>Flammability</td>
<td>2</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
</tbody>
</table>

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>dimethylsulfoxide</td>
<td>67-68-5</td>
<td>200-664-3</td>
<td>95-100</td>
</tr>
<tr>
<td>propidium iodide</td>
<td>25535-16-4</td>
<td>247-081-0</td>
<td>1-5</td>
</tr>
</tbody>
</table>

We recommend handling all chemicals with caution.

SECTION 4: First aid measures

Skin contact
Wash off immediately with plenty of water. If symptoms occur, obtain medical advice.

Eye contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary.

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
H227 - Combustible liquid, H341 - Suspected of causing genetic defects, H316 - Causes mild skin irritation

Notes to Physician
Treat symptomatically.

SECTION 5: Firefighting measures

Suitable extinguishing media

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
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protection equipment.

Methods for cleaning up
Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. After cleaning, flush away traces with water.

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

See Section 12 for more information.

SECTION 7: Handling and storage

Handling
Avoid contact with skin and eyes. Always wear recommended Personal Protective Equipment.

Storage
Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Do not store near combustible materials. Keep in properly labeled containers.

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>dimethylsulfoxide</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>propidium iodide</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</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 butyl rubber gloves. Nitrile gloves are not recommended. Some brands of Nitrile gloves have breakthrough times of five minutes.

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

Form
Liquid

Appearance
No information available

Odor
No data available

Odor Threshold
No data available

Boiling point / boiling range
°C 188 - 190
°F 370 - 374

Melting point / melting range
°C 18 - 19
°F 64.4 - 66.2

Flash point
°C 87 - 89
°F 188.6 - 192.2

Autoignition Temperature
°C 214 - 216
°F 417.2 - 420.8

Evaporation rate
No data available

Flammability (solid, gas)
No data available

Oxidizing properties
No information available

Water solubility
miscible

Upper explosion limit
61% - 64%

Lower explosion limit
2.4% - 2.8%

Partition coefficient:
n-octanol/water
No data available

Vapor Pressure
No data available

Vapor density
No data available

Viscosity
No data available

pH value
No data available

SECTION 10: Stability and reactivity

Stability
Stable under normal conditions.

Materials to avoid
Strong acids. Strong oxidizing agents.

Possibility of hazardous reactions
Hazardous reaction has not been reported

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. Sulphur oxides. 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>
</table>

Revision date: 28-Jul-2016
Product code: L7012COMPONENTB

www.thermofisher.com
**Principle Routes of Exposure**

**Potential Health Effects**

- **eyes**: Mild eye irritation.
- **Skin**: May cause skin irritation in susceptible persons. Components of the product may be absorbed into the body through the skin.
- **inhalation**: May be harmful by inhalation.
- **Ingestion**: May be harmful if swallowed.

**Carcinogenic effects**: None.

**Mutagenic effects**: Contains a known or suspected mutagen.

**Reproductive toxicity**: None.

**Sensitization**: May cause sensitization by inhalation.

---

**SECTION 12: Ecological information**

**Ecotoxicity**: Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**Mobility**: Completely soluble.

**Biodegradation**: Inherently biodegradable.

**Bioaccumulation**: Material does not bioaccumulate.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Freshwater Algae Data</th>
<th>Water Flea Data</th>
<th>Freshwater Fish Species Data</th>
<th>Microtox Data</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>dimethylsulfoxide</td>
<td>Skeletonema costatum EC50=12350 - 25500 mg/L (96 h)</td>
<td>Daphnia species EC50=7000 mg/L (24 h)</td>
<td></td>
<td></td>
<td>logPow-2.03</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>dimethylsulfoxide</td>
<td>Listed</td>
</tr>
<tr>
<td>67-68-5 ( 95-100 )</td>
<td></td>
</tr>
<tr>
<td>propidium iodide</td>
<td></td>
</tr>
<tr>
<td>25535-16-4 ( 1-5 )</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
B3 - Combustible liquid
D2A - Very toxic materials

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

SECTION 16: Other information

Reason for revision  
SDS sections updated.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

"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 used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company 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 SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

End of Safety Data Sheet
SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code: L7012COMPONENTC
Product name: BacLight™ mounting oil

Company/undertaking identification

Life Technologies Corporation
5781 Van Allen Way
PO Box 6482
Carlsbad, CA 92008
+1 760 603 7200

Life Technologies
5250 Mainway Drive
Burlington, ONT
CANADA L7L 6A4
800/263-6236

24 hour Emergency Response for Hazardous Materials
Within the USA + Canada: 1-800-424-9300 and +1 703-527-3887
Outside the USA + Canada: +1 703-741-5970

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
Prevention
Not Applicable
Response
Not Applicable
Storage
Not Applicable

Disposal
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
No known effects under normal use conditions.

HMIS

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

SECTION 3: Composition/information on ingredients

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. Immediate medical attention is not required.

**Eye contact**: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

**Ingestion**: Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

**inhalation**: Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

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

**Notes to Physician**: Treat symptomatically.

SECTION 5: Firefighting measures

**Suitable extinguishing media**: Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

**Special protective equipment for firefighters**: Standard procedure for chemical fires.
Specific hazards arising from the chemical: Not known

SECTION 6: Accidental release measures

Personal precautions: Always wear recommended Personal Protective Equipment. Use personal protection equipment.

Methods for cleaning up: Soak up with inert absorbent material.

Environmental precautions:

No special environmental precautions required.

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:

We are not aware of any national exposure limit.

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:

Form: Liquid
Appearance: White to yellow
Odor: No data available
Odor Threshold: No data available
Boiling point / boiling range: °C No data available °F No data available
Melting point / melting range: °C No data available °F No data available

Revision date: 28-Jul-2016
Product code: L7012COMPONENTC
Product name: BacLight™ mounting oil
www.thermofisher.com
SECTION 10: Stability and reactivity

Stability
Stable under normal conditions.

Materials to avoid
No dangerous reaction known under conditions of normal use.

Possibility of hazardous reactions
Hazardous reaction has not been reported

Hazardous decomposition products
None under normal use conditions.

polymerization
Hazardous polymerization does not occur.

Conditions to avoid
None under normal processing.

SECTION 11: Toxicological information

Acute Toxicity
No toxicology information is available.

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.

SECTION 12: Ecological information

Ecotoxicity
Contains no substances known to be hazardous to the environment or not
Mobility
No information available.

Biodegradation
Inherently biodegradable.

Bioaccumulation
Material does not bioaccumulate.

SECTION 13: Disposal considerations
Dispose of contents/containers in accordance with local regulations.

SECTION 14: Transport information

IATA

<table>
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<tr>
<td>UN-No</td>
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</tr>
<tr>
<td>Environmental hazards</td>
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</tr>
</tbody>
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SECTION 15: Regulatory information

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.

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

“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 used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution.”

Product code L7012COMPONENTC
Product name BacLight™ mounting oil
www.thermofisher.com
Since the Company cannot control the actual methods, volumes, or conditions of use, the Company 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 SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

End of Safety Data Sheet