Safety Data Sheet

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

Identification of the substance or mixture

Product code 23238
Product name COOMASSIE PLUS - THE BETTER BR

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

Thermo Fisher Scientific
Pierce Biotechnology
P.O. Box 117
Rockford, IL 61105
United States
1.815.968.0747 or
1.800.874.3723

24 hour Emergency Response: 866-536-0631
301-431-8585
Outside of the U.S. +1-301-431-8585

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

Use as laboratory reagent. Scientific research and development.

SECTION 2: Hazards identification

GHS - Classification

Signal Word
DANGER

Health hazards
Skin corrosion/irritation Category 1

Revision date 01-Mar-2016
Product code 23238
Product name COOMASSIE PLUS - THE BETTER BR
Serious eye damage/eye irritation
Category 1
Specific target organ systemic toxicity (single exposure)  
Category 2

**Physical hazards**
Not classified

**Hazard Statements**
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H371 - May cause damage to organs

**Precautionary Statements**
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P260 - Do not breathe dust/fume/gas/mist/vapors/spray

**Principal Routes of Exposure**

**Potential Health Effects**

- **eyes**: Corrosive to the eyes and may cause severe damage including blindness.
- **Skin**: Causes burns.
- **inhalation**: May cause irritation of respiratory tract.
- **Ingestion**: May be harmful if swallowed.

**Specific effects**

- **Carcinogenic effects**: None.
- **Mutagenic effects**: None.
- **Reproductive toxicity**: None.
- **Sensitization**: None.

**Target Organ Effects**: No information available.

**HMIS**

<table>
<thead>
<tr>
<th></th>
<th>4 * Chronic Hazard</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reactivity</td>
<td></td>
<td></td>
<td></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>Methyl alcohol</td>
<td>67-56-1</td>
<td>200-659-6</td>
<td>1-5</td>
</tr>
<tr>
<td>67-56-1 (1-5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphoric acid</td>
<td>7664-38-2</td>
<td>231-633-2</td>
<td>5-10</td>
</tr>
<tr>
<td>7664-38-2 (5-10)</td>
<td></td>
<td></td>
<td></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 for at least 15 minutes. Take off all contaminated clothing and wash it before reuse. Immediate medical attention is required.

**Eye contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

**Ingestion**
Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

**Inhalation**
Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately.

**Most important symptoms and effects, both acute and delayed**
H314 - Causes severe skin burns and eye damage, H318 - Causes serious eye damage, H371 - May cause damage to organs

**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**
Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. 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. 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>Methyl alcohol</td>
<td>200 ppm</td>
<td>None</td>
<td>200 ppm</td>
<td>250 ppm</td>
</tr>
<tr>
<td></td>
<td>260 mg/m³</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphoric acid</td>
<td>1 mg/m³</td>
<td>None</td>
<td>1 mg/m³</td>
<td>3 mg/m³</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

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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>Mixture has not been tested</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Mixture has not been tested</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Melting point / melting range</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>°C No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Mixture has not been tested</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No data available</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: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Mixture has not been tested</td>
</tr>
<tr>
<td>pH value</td>
<td>No data available</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

Stability  Stable under normal conditions.

Materials to avoid  No information available.

Possibility of hazardous reactions  Hazardous reaction has not been reported

Hazardous decomposition products  No information available.

polymerization  None under normal processing.

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>Methyl alcohol</td>
<td>= 6200 mg/kg (Rat)</td>
<td>No data available</td>
<td>=64000ppm(Rat) =22500ppm(Rat)</td>
</tr>
<tr>
<td>Phosphoric acid</td>
<td>= 1530 mg/kg (Rat)</td>
<td>No data available</td>
<td>&gt;850mg/m³(Rat)</td>
</tr>
</tbody>
</table>

Principle Routes of Exposure

- **eyes**: Corrosive to the eyes and may cause severe damage including blindness.
- **Skin**: Causes burns.
- **inhalation**: May cause irritation of respiratory tract.
- **Ingestion**: May be harmful if swallowed.

Potential Health Effects

- Carcinogenic effects: None.
- Mutagenic effects: None.
- Reproductive toxicity: None.
- Sensitization: None.

Target Organ Effects: No information available

SECTION 12: Ecological information

Ecotoxicity

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

Mobility

see log Pow.

Biodegradation

No information available.

Bioaccumulation

No information available.

<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>Methyl alcohol</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>logPow-0.77</td>
</tr>
<tr>
<td>Phosphoric acid</td>
<td></td>
<td>Daphnia magna</td>
<td>EC50=4.6 mg/L (12 h)</td>
<td></td>
<td></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**: Corrosive liquid, acidic, inorganic, n.o. s. (Phosphoric acid)
- **Hazard Class**: 8
- **Subsidiary class**: None
- **Packing group**: II
- **UN-No**: UN3264
- **Environmental hazards**: None
SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Component</th>
<th>US TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>Listed</td>
</tr>
<tr>
<td>67-56-1 (1-5)</td>
<td></td>
</tr>
<tr>
<td>Phosphoric acid</td>
<td>Listed</td>
</tr>
<tr>
<td>7664-38-2 (5-10)</td>
<td></td>
</tr>
</tbody>
</table>

US Federal Regulations

SARA 313
This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>67-56-1</td>
<td>1-5</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product contains the following HAPs:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>HAPS data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>67-56-1</td>
<td>1-5</td>
<td>Present</td>
</tr>
</tbody>
</table>

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl alcohol</td>
<td>67-56-1</td>
<td>1-5</td>
<td>Developmental</td>
</tr>
</tbody>
</table>

WHMIS Hazard Class
E - Corrosive material
D2B - Toxic materials

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.

Use as laboratory reagent. Scientific research and development.

"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