Section 1. Identification of the Substance/Mixture and of the

1.1 Product Code: 703310
Product Name: GST Assay Buffer (2X)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet

Company Name: Cayman Chemical Company
Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887
Information: Cayman Chemical Company +1 (734)971-3335
Web site address: www.caymanchem.com

Section 2. Hazards Identification

GHS Classification  Placard  Key word  GHS hazard phrase
Acute Toxicity: Skin, Category 5  none  Warning  May be harmful in contact with skin

GHS Hazard Phrases: H313: May be harmful in contact with skin.

GHS Precaution Phrases: No data available.

GHS Response Phrases: P312: Call a {POISON CENTER/doctor/...} if you feel unwell.

GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Effects and Symptoms:
Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation, ingestion, or skin absorption.
May cause eye, skin, or respiratory system irritation.
To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Target Organs: No data available.

Medical Conditions Generally Aggravated By Exposure: No data available.

Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
<th>EC#</th>
<th>Risk Phrases</th>
<th>RTECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>2.7 %</td>
<td>231-913-4</td>
<td>No phrases apply.</td>
<td>TC6615500</td>
</tr>
<tr>
<td>2. Triton X-100</td>
<td>9002-93-1</td>
<td>0.2 %</td>
<td>NA</td>
<td>R22-41-52/53</td>
<td>MD0907700</td>
</tr>
<tr>
<td>3. Water</td>
<td>7732-18-5</td>
<td>97.1 %</td>
<td>231-791-2</td>
<td>No phrases apply.</td>
<td>ZC0110000</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

4.1.1 In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

4.1.2 In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

4.1.3 In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.
<table>
<thead>
<tr>
<th>Section 5. Fire Fighting Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5.1 Suitable Extinguishing Media:</strong></td>
</tr>
<tr>
<td>Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.</td>
</tr>
<tr>
<td>Use water spray to cool fire-exposed containers.</td>
</tr>
<tr>
<td><strong>Unsuitable Extinguishing Media:</strong></td>
</tr>
<tr>
<td>A solid water stream may be inefficient.</td>
</tr>
<tr>
<td><strong>5.2 Flammable Properties and Hazards:</strong></td>
</tr>
<tr>
<td>No data available.</td>
</tr>
<tr>
<td><strong>Flash Pt:</strong></td>
</tr>
<tr>
<td><strong>Autoignition Pt:</strong></td>
</tr>
<tr>
<td><strong>Explosive Limits:</strong></td>
</tr>
<tr>
<td>LEL: No data.</td>
</tr>
<tr>
<td><strong>Hazardous Combustion Products:</strong></td>
</tr>
<tr>
<td>No data available.</td>
</tr>
<tr>
<td><strong>5.3 Fire Fighting Instructions:</strong></td>
</tr>
<tr>
<td>As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 6. Accidental Release Measures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>6.1 Protective Precautions, Protective Equipment and Emergency Procedures:</strong></td>
</tr>
<tr>
<td>Avoid breathing vapors and provide adequate ventilation.</td>
</tr>
<tr>
<td>As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).</td>
</tr>
<tr>
<td><strong>6.2 Environmental Precautions:</strong></td>
</tr>
<tr>
<td>Take steps to avoid release into the environment, if safe to do so.</td>
</tr>
<tr>
<td><strong>6.3 Methods and Material For Containment and Cleaning Up:</strong></td>
</tr>
<tr>
<td>Contain spill and collect, as appropriate.</td>
</tr>
<tr>
<td>Transfer to a chemical waste container for disposal in accordance with local regulations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 7. Handling and Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7.1 Precautions To Be Taken in Handling:</strong></td>
</tr>
<tr>
<td>Avoid breathing dust/fume/gas/mist/vapours/spray.</td>
</tr>
<tr>
<td>Avoid prolonged or repeated exposure.</td>
</tr>
<tr>
<td><strong>7.2 Precautions To Be Taken in Storing:</strong></td>
</tr>
<tr>
<td>Keep container tightly closed.</td>
</tr>
<tr>
<td>Store in accordance with information listed on the product insert.</td>
</tr>
<tr>
<td><strong>Hazard Label Information:</strong></td>
</tr>
<tr>
<td>Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Section 8. Exposure Controls/Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hazardous Components (Chemical Name)</strong></td>
</tr>
<tr>
<td><strong>CAS #</strong></td>
</tr>
<tr>
<td>Potassium phosphate, Monobasic</td>
</tr>
<tr>
<td>Triton X-100</td>
</tr>
<tr>
<td>Water</td>
</tr>
<tr>
<td><strong>Hazardous Components (Chemical Name)</strong></td>
</tr>
<tr>
<td><strong>CAS #</strong></td>
</tr>
<tr>
<td>Potassium phosphate, Monobasic</td>
</tr>
<tr>
<td>Triton X-100</td>
</tr>
<tr>
<td>Water</td>
</tr>
<tr>
<td><strong>Protective Equipment Summary - Hazard Label Information:</strong></td>
</tr>
<tr>
<td>Compatible chemical-resistant gloves</td>
</tr>
<tr>
<td><strong>8.2.1 Engineering Controls (Ventilation etc.):</strong></td>
</tr>
<tr>
<td>Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.</td>
</tr>
</tbody>
</table>
8.2.2.1 Eye Protection: Safety glasses
8.2.2.2 Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat
8.2.2.3 Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally.

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Wash thoroughly after handling.

8.2.3 Environmental Exposure Controls: No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [ X ] Liquid [ ] Solid

Appearance and Odor: No data available.

pH: 6.5

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Autoignition Pt: No data.

Explosive Properties: No data available.

Oxidizing Properties: No data available.

9.2 Other Information

Percent Volatile: No data.

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [ ] Stable [ X ]

10.3 Stability Note(s): No data available.

10.4 Conditions To Avoid: No data available.

10.5 Polymerization: Will occur [ ] Will not occur [ X ]

10.6 Incompatibility - Materials To Avoid: No data available.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.

Chronic Toxicological Effects: No data available.

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>
Section 12. Ecological Information

12.1 Toxicity:
Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

Section 13. Disposal Considerations

13.1 Waste Disposal Method:
Dispose in accordance with local, state, and federal regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT)
DOT Proper Shipping Name
Not dangerous goods.

14.1 LAND TRANSPORT (European ADR/RID)
ADR/RID Shipping Name
Not dangerous goods.

14.3 AIR TRANSPORT (ICAO/IATA)
ICAO/IATA Shipping Name
Not dangerous goods.

Additional Transport Information:
Transport in accordance with local, state, and federal regulations.

Section 15. Regulatory Information

European Community Hazard Symbol codes
No data available.

European Community Risk and Safety Phrases
S24/25 - Avoid contact with skin and eyes.
S37/39 - Wear suitable gloves and eye/face protection.

US EPA SARA Title III

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Sec.302 (EHS)</th>
<th>Sec.304 RQ</th>
<th>Sec.313 (TRI)</th>
<th>Sec.110</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2. Triton X-100</td>
<td>9002-93-1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>3. Water</td>
<td>7732-18-5</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Other US EPA or State Lists

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>CAA HAP, ODC</th>
<th>CWA NPDES</th>
<th>TSCA</th>
<th>CA PROP.65</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
<tr>
<td>2. Triton X-100</td>
<td>9002-93-1</td>
<td>No</td>
<td>No</td>
<td>Inventory, 8A PAIR</td>
<td>No</td>
</tr>
<tr>
<td>3. Water</td>
<td>7732-18-5</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

Regulatory Information Statement:
This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

Section 16. Other Information

Revision Date:
08/05/2013

Company Policy or Disclaimer

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required
Cayman Chemical Company
1180 E. Ellsworth Rd.
Ann Arbor, MI 48108

Section 1. Identification of the Substance/Mixture and of the

1.1 Product Code: 703312

Product Name: GST Sample Buffer (2X)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet

Company Name: Cayman Chemical Company

Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300

Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887

Information: Cayman Chemical Company +1 (734)971-3335

Web site address: www.caymanchem.com

Section 2. Hazards Identification

GHS Classification

<table>
<thead>
<tr>
<th>Class</th>
<th>Placard</th>
<th>Key word</th>
<th>GHS hazard phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity: Skin, Category 5</td>
<td>none</td>
<td>Warning</td>
<td>May be harmful in contact with skin</td>
</tr>
</tbody>
</table>

GHS Hazard Phrases: H313: May be harmful in contact with skin.

GHS Precaution Phrases: No data available.

GHS Response Phrases: P312: Call a {POISON CENTER/doctor/...} if you feel unwell.

GHS Storage and Disposal Phrases: No data available.

2.3 Adverse Human Health Effects and Symptons:

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

The toxicological properties of this product have not been fully evaluated.

Target Organs: No data available.

Medical Conditions Generally Aggravated By Exposure: No data available.

Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
<th>EC#</th>
<th>Risk Phrases</th>
<th>RTECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>2.7 %</td>
<td>231-913-4</td>
<td>No phrases apply.</td>
<td>TC6615500</td>
</tr>
<tr>
<td>2. Triton X-100</td>
<td>9002-93-1</td>
<td>0.2 %</td>
<td>NA</td>
<td>R22-41-52/53</td>
<td>MD0907700</td>
</tr>
<tr>
<td>3. Glutathione, reduced</td>
<td>70-18-8</td>
<td>0.06 %</td>
<td>200-725-4</td>
<td>R22-37/38-41</td>
<td>MC0556000</td>
</tr>
<tr>
<td>4. Water</td>
<td>7732-18-5</td>
<td>97.04 %</td>
<td>231-791-2</td>
<td>No phrases apply.</td>
<td>ZC0110000</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

4.1.1 In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

4.1.2 In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

4.1.3 In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.
4.1.4 In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2 Important Symptoms and Effects, Both Acute and Delayed: No data available.

4.3 Indication of any immediate medical attention and special treatment needed: No data available.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards: No data available.

Flash Pt: No data.

Autoignition Pt: No data available.

Explosive Limits: LEL: No data. UEL: No data.

Hazardous Combustion Products: No data available.

5.3 Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Protective Equipment and Emergency Procedures: Avoid breathing vapors and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Precautions: Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and Material For Containment and Cleaning Up: Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.

Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.

7.2 Precautions To Be Taken in Storing: Keep container tightly closed. Store in accordance with information listed on the product insert.

Hazard Label Information: Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.

Section 8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>2. Triton X-100</td>
<td>9002-93-1</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Britain EH40</th>
<th>France VL</th>
<th>Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>2. Triton X-100</td>
<td>9002-93-1</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

Protective Equipment Summary - Hazard Label Information: Compatible chemical-resistant gloves Eye wash station in work area Lab coat Safety glasses Safety shower in work area Vent Hood
8.2.1 Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2.1 Eye Protection: Safety glasses

8.2.2.2 Protective Gloves: Compatible chemical-resistant gloves

Other Protective Clothing: Lab coat

8.2.2.3 Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices: Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Wash thoroughly after handling.

8.2.3 Environmental Exposure Controls: No data available.

---

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [ X ] Liquid [ ] Solid

Appearance and Odor: No data available.

pH: 6.5

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.

Evaporation Rate: No data.

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): No data.

Solubility in Water: No data.

Autoignition Pt: No data.

Explosive Properties: No data available.

Oxidizing Properties: No data available.

9.2 Other Information

Percent Volatile: No data.

---

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [ ] Stable [ X ]

10.3 Stability Note(s): No data available.

10.4 Conditions To Avoid: No data available.

10.5 Incompatibility - Materials To Avoid: No data available.

10.6 Hazardous Decomposition Or Byproducts: No data available.
### Section 11. Toxicological Information

**11.1 Information on Toxicological Effects:** The toxicological effects of this product have not been thoroughly studied.

**Chronic Toxicological Effects:** No data available.

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>2. Triton X-100</td>
<td>9002-93-1</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>3. Glutathione, reduced</td>
<td>70-18-8</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

**Carcinogenicity:**
- NTP: No
- IARC Monographs: No
- OSHA Regulated: No

### Section 12. Ecological Information

**12.1 Toxicity:** Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

### Section 13. Disposal Considerations

**13.1 Waste Disposal Method:** Dispose in accordance with local, state, and federal regulations.

### Section 14. Transport Information

**14.1 LAND TRANSPORT (US DOT)**
- DOT Proper Shipping Name: Not dangerous goods.

**14.1 LAND TRANSPORT (European ADR/RID)**
- ADR/RID Shipping Name: Not dangerous goods.

**14.3 AIR TRANSPORT (ICAO/IATA)**
- ICAO/IATA Shipping Name: Not dangerous goods.

**Additional Transport Information:** Transport in accordance with local, state, and federal regulations.

### Section 15. Regulatory Information

**European Community Hazard Symbol codes**
- No data available.

**European Community Risk and Safety Phrases**
- S24/25: Avoid contact with skin and eyes.
- S37/39: Wear suitable gloves and eye/face protection.

**US EPA SARA Title III**

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Sec.302 (EHS)</th>
<th>Sec.304 RQ</th>
<th>Sec.313 (TRI)</th>
<th>Sec.110</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2. Triton X-100</td>
<td>9002-93-1</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>3. Glutathione, reduced</td>
<td>70-18-8</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>4. Water</td>
<td>7732-18-5</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Other US EPA or State Lists**

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>CAA HAP,ODC</th>
<th>CWA NPDES</th>
<th>TSCA</th>
<th>CA PROP.65</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
<tr>
<td>2. Triton X-100</td>
<td>9002-93-1</td>
<td>No</td>
<td>No</td>
<td>Inventory, 8A PAIR</td>
<td>No</td>
</tr>
<tr>
<td>3. Glutathione, reduced</td>
<td>70-18-8</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
<tr>
<td>4. Water</td>
<td>7732-18-5</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

**Regulatory Information Statement:** This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.
Section 16. Other Information

Revision Date: 08/05/2013

Company Policy or Disclaimer

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required
# 1. Identification of the Substance/Mixture and of the Company/Undertaking

<table>
<thead>
<tr>
<th>Product Code:</th>
<th>703314</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>GST Assay (control)</td>
</tr>
<tr>
<td>Relevant identified uses of the substance or mixture and uses advised against</td>
<td>For research use only, not for human or veterinary use.</td>
</tr>
</tbody>
</table>

## Manufacturer Information

<table>
<thead>
<tr>
<th>Company Name:</th>
<th>Cayman Chemical Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emergency Contact:</td>
<td>CHEMTREC Within USA and Canada: +1 (800)424-9300</td>
</tr>
<tr>
<td>Alternate Emergency Contact:</td>
<td>CHEMTREC Outside USA and Canada: +1 (703)527-3887</td>
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<tr>
<td>Information:</td>
<td>Cayman Chemical Company +1 (734)971-3335</td>
</tr>
<tr>
<td>Web site address:</td>
<td><a href="http://www.caymanchem.com">www.caymanchem.com</a></td>
</tr>
</tbody>
</table>

# 2. Hazards Identification

<table>
<thead>
<tr>
<th>GHS Classification</th>
<th>Placard</th>
<th>Key word</th>
<th>GHS hazard phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity: Oral, Category 4</td>
<td>Exclamation point</td>
<td>Warning</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>Acute Toxicity: Skin, Category 5</td>
<td>none</td>
<td>Warning</td>
<td>May be harmful in contact with skin</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation, Category 3</td>
<td>none</td>
<td>Warning</td>
<td>Causes mild skin irritation</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation, Category 2</td>
<td>Exclamation point</td>
<td>Warning</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>Target Organ Systemic Toxicity (single exposure), Category 3</td>
<td>Exclamation point</td>
<td>Warning</td>
<td>May cause respiratory irritation, or may cause drowsiness and dizziness</td>
</tr>
</tbody>
</table>

**GHS Hazard Phrases:**

- H302: Harmful if swallowed.
- H313: May be harmful in contact with skin.
- H316: Causes mild skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.

**GHS Precaution Phrases:**

- P264: Wash {hands} thoroughly after handling.
- P280: Wear {protective gloves/protective clothing/eye protection/face protection}.
- P261: Avoid breathing {dust/fume/gas/mist/vapours/spray}.

**GHS Response Phrases:**

- P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P330: Rinse mouth.
- P312: Call a {POISON CENTER/doctor/...} if you feel unwell.
- P332+313: If skin irritation occurs, get medical advice/attention.
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+313: If eye irritation persists, get medical advice/attention.
- P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
- P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**GHS Storage and Disposal Phrases:**

Please refer to Section 7 for Storage and Section 13 for Disposal information.

**Potential Health Effects (Acute and Chronic):**

- Causes mild skin irritation.
- Causes serious eye irritation.
- Harmful if swallowed.
- Material may be irritating to the mucous membranes and upper respiratory tract.
- May be harmful by inhalation or skin absorption.
SAFETY DATA SHEET
GST Assay (control)

May cause respiratory irritation.
The toxicological properties of this product have not been fully evaluated.

Target Organs: No data available.
Medical Conditions Generally Aggravated By Exposure: No data available.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
<th>EC#</th>
<th>Risk Phrases</th>
<th>RTECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Glutathione S-Transferase</td>
<td>50812-37-8</td>
<td>0.1 -1.0 %</td>
<td>NA</td>
<td>No data available.</td>
<td>NA</td>
</tr>
<tr>
<td>2. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>0.0 -5.0 %</td>
<td>231-913-4</td>
<td>No phrases apply.</td>
<td>TC6615500</td>
</tr>
<tr>
<td>3. Glutathione, reduced</td>
<td>70-18-8</td>
<td>0.0 -1.0 %</td>
<td>200-725-4</td>
<td>R22-37/38-41</td>
<td>MC0556000</td>
</tr>
<tr>
<td>4. Ethylenediamine Tetraacetic Acid</td>
<td>60-00-4</td>
<td>0.0 -1.0 %</td>
<td>200-449-4</td>
<td>R36-52</td>
<td>AH4025000</td>
</tr>
<tr>
<td>5. Bovine Serum Albumin (BSA)</td>
<td>9048-46-8</td>
<td>0.0 -1.0 %</td>
<td>232-936-2</td>
<td>R22</td>
<td>MT6446000</td>
</tr>
<tr>
<td>6. Water</td>
<td>7732-18-5</td>
<td>91.0 -99.9 %</td>
<td>231-791-2</td>
<td>No phrases apply.</td>
<td>ZC0110000</td>
</tr>
</tbody>
</table>

4. First Aid Measures

Emergency and First Aid Procedures:

In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.

In Case of Ingestion: No data available.

Signs and Symptoms Of Exposure: No data available.

Indication of any immediate medical attention and special treatment needed: No data available.

5. Fire Fighting Measures

Suitable Extinguishing Media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media: A solid water stream may be inefficient.

Flammable Properties and Hazards: No data available.

Flash Pt: No data.

Autoignition Pt: No data available.

Explosive Limits: LEL: No data. UEL: No data.

Hazardous Combustion Products: No data available.

Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Avoid breathing vapors and provide adequate ventilation.
As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

Environmental Precautions: Take steps to avoid release into the environment, if safe to do so.
Steps To Be Taken In Case Material Is Released Or Spilled:
Contain spill and collect, as appropriate.
Transfer to a chemical waste container for disposal in accordance with local regulations.

7. Handling and Storage

Precautions To Be Taken in Handling:
Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid prolonged or repeated exposure.

Precautions To Be Taken in Storing:
Keep container tightly closed.
Store in accordance with information listed on the product insert.

Hazard Label Information:
Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>4. Ethylenediamine Tetraacetic Acid</td>
<td>60-00-4</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>5. Bovine Serum Albumin (BSA)</td>
<td>9048-46-8</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Britain EH40</th>
<th>France VL</th>
<th>Europe</th>
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<tbody>
<tr>
<td>2. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>4. Ethylenediamine Tetraacetic Acid</td>
<td>60-00-4</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>5. Bovine Serum Albumin (BSA)</td>
<td>9048-46-8</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

Protective Equipment Summary - Hazard Label Information:
Compatible chemical-resistant gloves Eye wash station in work area Lab coat Safety glasses Safety shower in work area Vent Hood

Engineering Controls (Ventilation etc.):
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Eye Protection:
Safety glasses

Protective Gloves:
Compatible chemical-resistant gloves

Other Protective Clothing:
Lab coat

Respiratory Equipment (Specify Type):
NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices:
Do not take internally.
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Wash thoroughly after handling.

Environmental Exposure Controls:
No data available.

9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [ ] Liquid [ ] Solid

Appearance and Odor: No data available.

pH: 7.0

Melting Point: No data.

Boiling Point: No data.

Flash Pt: No data.
Evaporation Rate: No data.
Vapor Pressure (vs. Air or mm Hg): No data.
Vapor Density (vs. Air = 1): No data.
Specific Gravity (Water = 1): No data.
Solubility in Water: No data.
Autoignition Pt: No data.
Explosive Properties: No data available.
Oxidizing Properties: No data available.
Other Information
Percent Volatile: No data.

10. Stability and Reactivity
Reactivity: No data available.
Stability: Unstable [ ] Stable [ X ]
Stability Note(s): No data available.
Conditions To Avoid: No data available.
Polymerization: Will occur [ ] Will not occur [ X ]
Incompatibility - Materials To Avoid: No data available.
Hazardous Decomposition Or Byproducts: No data available.

11. Toxicological Information
Toxicological Information: The toxicological effects of this product have not been thoroughly studied.
Chronic Toxicological Effects: No data available.

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
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<tbody>
<tr>
<td>2. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>3. Glutathione, reduced</td>
<td>70-18-8</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>4. Ethylenediamine Tetraacetic Acid</td>
<td>60-00-4</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>5. Bovine Serum Albumin (BSA)</td>
<td>9048-46-8</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information
General Ecological Information: Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

13. Disposal Considerations
Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT)
DOT Proper Shipping Name: Not dangerous goods.

LAND TRANSPORT (European ADR/RID)
ADR/RID Shipping Name: Not dangerous goods.

AIR TRANSPORT (ICAO/IATA)
ICAO/IATA Shipping Name: Not dangerous goods.
Additional Transport Information: Transport in accordance with local, state, and federal regulations.

15. Regulatory Information

European Community Hazard Symbol codes
Xi: Irritant

European Community Risk and Safety Phrases
- R22 - Harmful if swallowed.
- R36 - Irritating to eyes.
- R37/38 - Irritating to respiratory system and skin.
- R41 - Risk of serious damage to the eyes.
- R52 - Harmful to aquatic organisms.
- S22/25 - Avoid contact with skin and eyes.
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

US EPA SARA Title III

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Sec.302 (EHS)</th>
<th>Sec.304 RQ</th>
<th>Sec.313 (TRI)</th>
<th>Sec.110</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glutathione S-Transferase</td>
<td>50812-37-8</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Potassium phosphate, Monobasic</td>
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<td>No</td>
<td>No</td>
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</tr>
<tr>
<td>Glutathione, reduced</td>
<td>70-18-8</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Ethylenediamine Tetraacetic Acid</td>
<td>60-00-4</td>
<td>No</td>
<td>Yes 5000 LB</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Bovine Serum Albumin (BSA)</td>
<td>9048-46-8</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

Other US EPA or State Lists

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>CAA HAP, ODC</th>
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<tr>
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<td>9048-46-8</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
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</table>

Regulatory Information Statement: This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

16. Other Information

Revision Date: 08/05/2013

Company Policy or Disclaimer

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<table>
<thead>
<tr>
<th>Product Code:</th>
<th>703316</th>
</tr>
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<tbody>
<tr>
<td>Product Name:</td>
<td>GST Glutathione</td>
</tr>
</tbody>
</table>

Relevant identified uses of the substance or mixture and uses advised against

Intended Use: For research use only, not for human or veterinary use.

Manufacturer Information

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</tr>
<tr>
<td>Alternate Emergency Contact:</td>
<td>CHEMTREC Outside USA and Canada: +1 (703)527-3887</td>
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<tr>
<td>Information:</td>
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<td>Warning</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>Acute Toxicity: Skin, Category 5</td>
<td>none</td>
<td>Warning</td>
<td>May be harmful in contact with skin</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation, Category 3</td>
<td>none</td>
<td>Warning</td>
<td>Causes mild skin irritation</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation, Category 1</td>
<td>Corrosive</td>
<td>Danger</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>Target Organ Systemic Toxicity (single exposure), Category 3</td>
<td>Exclamation point</td>
<td>Warning</td>
<td>May cause respiratory irritation, or may cause drowsiness and dizziness</td>
</tr>
</tbody>
</table>

GHS Hazard Phrases:

H302: Harmful if swallowed.
H313: May be harmful in contact with skin.
H316: Causes mild skin irritation.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.

GHS Precaution Phrases:

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GHS Response Phrases:

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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P332+313: If skin irritation occurs, get medical advice/attention.
P305+351+338: 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/doctor/...}.
P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

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Causes mild skin irritation.
Causes serious eye damage.
Harmful if swallowed.
Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation or skin absorption.
May cause respiratory irritation.
To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

Target Organs: No data available.
Medical Conditions Generally Aggravated By Exposure: No data available.

### 3. Composition/Information on Ingredients

<table>
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<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
<th>EC#</th>
<th>Risk Phrases</th>
<th>RTECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Glutathione, reduced</td>
<td>70-18-8</td>
<td>0.0-5.0 %</td>
<td>200-725-4</td>
<td>R22-37/38-41</td>
<td>MC0556000</td>
</tr>
<tr>
<td>2. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>0.0-5.0 %</td>
<td>231-913-4</td>
<td>No phrases apply.</td>
<td>TC6615500</td>
</tr>
<tr>
<td>3. Water</td>
<td>7732-18-5</td>
<td>90.0-100.0 %</td>
<td>231-791-2</td>
<td>No phrases apply.</td>
<td>ZC0110000</td>
</tr>
</tbody>
</table>

### 4. First Aid Measures

**Emergency and First Aid Procedures:**
- **In Case of Inhalation:** Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
- **In Case of Skin Contact:** Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
- **In Case of Eye Contact:** Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.
- **In Case of Ingestion:** No data available.

**Signs and Symptoms Of Exposure:** No data available.

**Indication of any immediate medical attention and special treatment needed:**

### 5. Fire Fighting Measures

**Suitable Extinguishing Media:** Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

**Unsuitable Extinguishing Media:** Use water spray to cool fire-exposed containers.

**Flammable Properties and Hazards:** No data available.

**Flash Pt:** No data.

**Autoignition Pt:** No data available.

**Explosive Limits:**
- LEL: No data.
- UEL: No data.

**Hazardous Combustion Products:** No data available.

**Fire Fighting Instructions:** As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

### 6. Accidental Release Measures

**Protective Precautions, Protective Equipment and Emergency Procedures:** Avoid breathing vapors and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

**Environmental Precautions:** Take steps to avoid release into the environment, if safe to do so.

**Steps To Be Taken In Case Material Is Released Or Spilled:** Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.
7. Handling and Storage

Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.

Precautions To Be Taken in Storing: Keep container tightly closed. Store in accordance with information listed on the product insert.

Hazard Label Information: Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.

8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Glutathione, reduced</td>
<td>70-18-8</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>2. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Britain EH40</th>
<th>France VL</th>
<th>Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Glutathione, reduced</td>
<td>70-18-8</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>2. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

Protective Equipment Summary - Hazard Label Information:
Compatible chemical-resistant gloves Eye wash station in work area Lab coat Safety glasses Safety shower in work area Vent Hood

Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Eye Protection:
Safety glasses

Protective Gloves:
Compatible chemical-resistant gloves

Other Protective Clothing:
Lab coat

Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant.

Work/Hygienic/Maintenance Practices:
Do not take internally.
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Wash thoroughly after handling.

Environmental Exposure Controls:
No data available.

9. Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical States: [ ] Gas [X] Liquid [ ] Solid

Appearance and Odor:
No data available.

pH:
7.0

Melting Point:
No data.

Boiling Point:
No data.

Flash Pt:
No data.

Evaporation Rate:
No data.

Vapor Pressure (vs. Air or mm Hg):
No data.

Vapor Density (vs. Air = 1):
No data.

Specific Gravity (Water = 1):
No data.

Solubility in Water:
No data.

Autoignition Pt:
No data.
10. Stability and Reactivity

Reactivity: No data available.
Stability: Unstable [ ] Stable [ X ]
Stability Note(s): No data available.
Conditions To Avoid: No data available.
Polymerization: Will occur [ ] Will not occur [ X ]
Incompatibility - Materials To Avoid: No data available.
Hazardous Decomposition Or Byproducts: No data available.

11. Toxicological Information

Toxicological Information: The toxicological effects of this product have not been thoroughly studied.

Chronic Toxicological Effects: No data available.

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Glutathione, reduced</td>
<td>70-18-8</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>2. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

Carcinogenicity: NTP? No       IARC Monographs? No       OSHA Regulated? No

12. Ecological Information

General Ecological Information: Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name: Not dangerous goods.

LAND TRANSPORT (European ADR/RID)

ADR/RID Shipping Name: Not dangerous goods.

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name: Not dangerous goods.

Additional Transport Information: Transport in accordance with local, state, and federal regulations.

15. Regulatory Information

European Community Hazard Symbol codes: Xi: Irritant

European Community Risk and Safety Phrases

R22 - Harmful if swallowed.
R37/38 - Irritating to respiratory system and skin.
R41 - Risk of serious damage to the eyes.
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
### S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

#### US EPA SARA Title III

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Sec.302 (EHS)</th>
<th>Sec.304 RQ</th>
<th>Sec.313 (TRI)</th>
<th>Sec.110</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Glutathione, reduced</td>
<td>70-18-8</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>3. Water</td>
<td>7732-18-5</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

#### Other US EPA or State Lists

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>CAA HAP, ODC</th>
<th>CWA NPDES</th>
<th>TSCA</th>
<th>CA PROP.65</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Glutathione, reduced</td>
<td>70-18-8</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
<tr>
<td>2. Potassium phosphate, Monobasic</td>
<td>7778-77-0</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
<tr>
<td>3. Water</td>
<td>7732-18-5</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

#### Regulatory Information Statement:

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

### 16. Other Information

**Revision Date:** 08/05/2013

**Company Policy or Disclaimer**

DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

N.A.=Not available, N.P.=Not applicable, N.D.=Not determined, N.E.=Not established, N.R.=Not required
Section 1. Identification of the Substance/Mixture and of the

1.1 Product Code: 703318
Product Name: GST CDNB

1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses: For research use only, not for human or veterinary use.

1.3 Details of the Supplier of the Safety Data Sheet

Company Name: Cayman Chemical Company
Emergency Contact: CHEMTREC Within USA and Canada: +1 (800)424-9300
Alternate Emergency Contact: CHEMTREC Outside USA and Canada: +1 (703)527-3887
Information: Cayman Chemical Company +1 (734)971-3335
Web site address: www.caymanchem.com

Section 2. Hazards Identification

GHS Classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Placard</th>
<th>Key word</th>
<th>GHS hazard phrase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable Liquids, Category 2</td>
<td>Flame</td>
<td>Danger</td>
<td>Highly flammable liquid and vapor</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation, Category 2</td>
<td>Exclamation point</td>
<td>Warning</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>Aquatic Toxicity (Acute), Category 3</td>
<td>none</td>
<td></td>
<td>Harmful to aquatic life</td>
</tr>
<tr>
<td>Aquatic Toxicity (Chronic), Category 3</td>
<td>none</td>
<td></td>
<td>Harmful to aquatic life with long lasting effects</td>
</tr>
</tbody>
</table>

GHS Hazard Phrases:
H225: Highly flammable liquid and vapor.
H319: Causes serious eye irritation.
H402: Harmful to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

GHS Precaution Phrases:
P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.
P280: Wear {protective gloves/protective clothing/eye protection/face protection}.
P264: Wash {hands} thoroughly after handling.
P273: Avoid release to the environment.

GHS Response Phrases:
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+313: If eye irritation persists, get medical advice/attention.

GHS Storage and Disposal Phrases:
Please refer to Section 7 for Storage and Section 13 for Disposal information.

2.3 Adverse Human Health Effects and Symptoms:
Causes serious eye irritation.
Harmful to aquatic life with long lasting effects.
Material may be irritating to the mucous membranes and upper respiratory tract.
May be harmful by inhalation, ingestion, or skin absorption.
May cause eye, skin, or respiratory system irritation.
The toxicological properties of this product have not been fully evaluated.

Target Organs:
Central nervous system, Blood, Eyes, Reproductive system, Heart, Respiratory system, Liver, Skin.

LD 50 / LC 50:
Please refer to Section 11.
Section 3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
<th>EC#</th>
<th>Risk Phrases</th>
<th>RTECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1-Chloro-2,4-dinitrobenzene</td>
<td>97-00-7</td>
<td>0.0 -0.5 %</td>
<td>202-551-4</td>
<td>R23/24/25-33-43-50-53</td>
<td>C20525000</td>
</tr>
<tr>
<td>2. Ethyl alcohol</td>
<td>64-17-5</td>
<td>99.5 -100.0 %</td>
<td>200-578-6</td>
<td>R11-36</td>
<td>KQ6300000</td>
</tr>
</tbody>
</table>

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

4.1.1 In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

4.1.2 In Case of Skin Contact: Immediately wash skin with soap and plenty of water for at least 20 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

4.1.3 In Case of Eye Contact: Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examined and tested by medical personnel.

4.1.4 In Case of Ingestion: May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.

4.2 Important Symptoms and Effects, Both Acute and Delayed:

No data available.

4.3 Indication of any immediate medical attention and special treatment needed:

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media:

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media:

A solid water stream may be inefficient.

5.2 Flammable Properties and Hazards:

Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. Container explosion may occur under fire conditions. Emits toxic fumes under fire conditions. Sensitive to static discharge. Vapors can travel to a source of ignition and flash back.

Flash Pt: 14.00 C  Method Used: Closed Cup

Autoignition Pt: 363.00 C

Explosive Limits:

LEL: 3.3%  at  25.0 C  UEL: 19.0%  at  25.0 C

Hazardous Combustion Products: No data available.

5.3 Fire Fighting Instructions:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes. Note: Flammable as diluted in ethanol.

Section 6. Accidental Release Measures

6.1 Protective Precautions, Protective Equipment and Emergency Procedures:

Avoid breathing vapors and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental Precautions:

Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and Material For Containment and Cleaning Up:

Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations.
Section 7. Handling and Storage

7.1 Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition. Take precautionary measures against static discharge.

7.2 Precautions To Be Taken in Storing: Keep away from heat, sparks, and flame. Keep container tightly closed. Store in accordance with information listed on the product insert.

Other Precautions: Hygroscopic.

Hazard Label Information: Avoid contact with skin and eyes. Do not reuse this container. Use with adequate ventilation. Wash thoroughly after handling.

Section 8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1-Chloro-2,4-dinitrobenzene</td>
<td>97-00-7</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>2. Ethyl alcohol</td>
<td>64-17-5</td>
<td>1000 ppm</td>
<td>1000 ppm</td>
<td>No data.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Britain EH40</th>
<th>France VL</th>
<th>Europe</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1-Chloro-2,4-dinitrobenzene</td>
<td>97-00-7</td>
<td>TWA: 1920 mg/m3 (1000 ppm) STEL: ()</td>
<td>TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)</td>
<td>No data.</td>
</tr>
<tr>
<td>2. Ethyl alcohol</td>
<td>64-17-5</td>
<td>No data.</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

Protective Equipment Summary - Hazard Label Information:
- Compatible chemical-resistant gloves
- Eye wash station in work area
- Lab coat
- Safety glasses
- Safety shower in work area
- Vent Hood

8.2.1 Engineering Controls (Ventilation etc.):
Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.2.2.1 Eye Protection:
Safety glasses

8.2.2.2 Protective Gloves:
Compatible chemical-resistant gloves

8.2.2.3 Respiratory Equipment (Specify Type):
NIOSH approved respirator, as conditions warrant.

Other Protective Clothing:
Lab coat

Work/Hygienic/Maintenance Practices:
Do not take internally.
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Wash thoroughly after handling.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Physical States:</th>
<th>[ ] Gas</th>
<th>[ X ] Liquid</th>
<th>[ ] Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor:</td>
<td>No data available.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point:</td>
<td>No data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>No data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Pt:</td>
<td>14.00 C Method Used: Closed Cup</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>No data.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive Limits:</td>
<td>LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure (vs. Air or mm Hg):</td>
<td>43 MM_HG at 20.0 C</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Vapor Density (vs. Air = 1): No data.
Specific Gravity (Water = 1): No data.
Solubility in Water: No data.
Autoignition Pt: 363.00 C
Explosive Properties: No data available.
Oxidizing Properties: No data available.

9.2 Other Information
Percent Volatile: No data.

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.
10.2 Stability: Unstable [ ] Stable [ X ]
10.3 Stability Note(s): Stable if stored in accordance with information listed on the product insert.
10.4 Conditions To Avoid: heat, flames and sparks
10.5 Incompatibility - Materials To Avoid: alkali metals ammonia peroxides strong oxidizing agents
10.6 Hazardous Decomposition Or Byproducts: carbon dioxide carbon monoxide

Section 11. Toxicological Information

11.1 Information on Toxicological Effects: The toxicological effects of this product have not been thoroughly studied.

Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50 (rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50 (rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation LC50 (human): 1,800 ppm (30m); Inhalation LC50 (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3 (6h); Inhalation LC50 (mouse): 29,300 ppm (7h);
Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;

Chronic Toxicological Effects: Ethanol - Investigated as a mutagen, reproductive effector, and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Ethanol RTECS Number: KQ6300000

Section 12. Ecological Information

12.1 Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Section 13. Disposal Considerations

13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.
# Section 14. Transport Information

### 14.1 LAND TRANSPORT (US DOT)

- **DOT Proper Shipping Name**: Ethyl Alcohol Solution
- **DOT Hazard Class**: 3
- **DOT Hazard Label**: FLAMMABLE LIQUID
- **UN/NA Number**: 1170
- **Packing Group**: II

### 14.1 LAND TRANSPORT (European ADR/RID)

- **ADR/RID Shipping Name**: Ethyl Alcohol Solution
- **UN Number**: 1170
- **Hazard Class**: 3 - FLAMMABLE LIQUID
- **Packing Group**: II

### 14.3 AIR TRANSPORT (ICAO/IATA)

- **ICAO/IATA Shipping Name**: Ethyl Alcohol Solution
- **UN Number**: 1170
- **Hazard Class**: 3 - FLAMMABLE LIQUID
- **Packing Group**: II
- **IATA Classification**: 3

### Additional Transport Information:

Transport in accordance with local, state, and federal regulations.

---

# Section 15. Regulatory Information

**European Community Hazard Symbol codes**

- F: Highly Flammable; Xi: Irritant

**European Community Risk and Safety Phrases**

- R11 - Highly flammable.
- R36 - Irritating to eyes.
- S16 - Keep away from sources of ignition.
- S24/25 - Avoid contact with skin and eyes.
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S33 - Take precautionary measures against static discharges.
- S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

**US EPA SARA Title III**

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Sec.302 (EHS)</th>
<th>Sec.304 RQ</th>
<th>Sec.313 (TRI)</th>
<th>Sec.110</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1-Chloro-2,4-dinitrobenzene</td>
<td>97-00-7</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>2. Ethyl alcohol</td>
<td>64-17-5</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Other US EPA or State Lists**

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>CAA HAP, ODC</th>
<th>CWA NPDES</th>
<th>TSCA</th>
<th>CA PROP.65</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 1-Chloro-2,4-dinitrobenzene</td>
<td>97-00-7</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
<tr>
<td>2. Ethyl alcohol</td>
<td>64-17-5</td>
<td>No</td>
<td>No</td>
<td>Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

**Regulatory Information Statement:**

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

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# Section 16. Other Information

**Revision Date:** 08/05/2013

**Company Policy or Disclaimer**

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