Material Safety Data Sheet

Albumin

Date: April 7, 2008

**** SECTION 1 – Product Identification ****

MSDS Name: Albumin
Catalog Number: 10218-4
Synonyms: ALB

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Green, odorless solution</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.0025</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration</th>
<th>CAS #</th>
<th>EINECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bromocresol, green</td>
<td>18.8mg/dL</td>
<td>76-60-8</td>
<td>200-972-8</td>
</tr>
<tr>
<td>Citrate Buffer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surfactant, preservative</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

Albumin

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Albumin Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 –Handling and Storage****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-25 °C until the expiration date listed on the label.
Material Safety Data Sheet

Albumin

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Green
Odor: Odorless
PH: 4.2
Specific Gravity: 1.0025
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
Material Safety Data Sheet

Albumin

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
None required.

SAFETY PHRASES
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.
Material Safety Data Sheet

Albumin

Date: April 7, 2008

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Emergency Phone 781-275-4892
Material Safety Data Sheet

ALKALINE PHOSPHATASE

Date: April 7, 2008
Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Alkaline Phosphatase (two part reagent)
Catalog Number: 10214-4
Synonyms: ALP

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Property</th>
<th>R1</th>
<th>R2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Clear, odorless solution</td>
<td>Clear, odorless solution</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Appearance and Odor</td>
<td>Clear, odorless solution</td>
<td>Clear, odorless solution</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity R1</td>
<td>1.0191 g/mL</td>
<td>1.0251 g/mL</td>
</tr>
<tr>
<td>Specific Gravity R2</td>
<td>1.0251 g/mL</td>
<td>1.0251 g/mL</td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. This product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkaline Phosphatase Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-Amino-2-methyl-1-propanol, pH 10.4</td>
<td>124-68-5</td>
<td>204-709-8</td>
<td>0.00%</td>
</tr>
<tr>
<td>Magnesium Chloride</td>
<td>7786-30-3</td>
<td>232-094-6</td>
<td>0.02%</td>
</tr>
<tr>
<td>Zinc Sulfate</td>
<td>7733-02-0</td>
<td>231-793-3</td>
<td>0.02%</td>
</tr>
<tr>
<td>HEDTA</td>
<td>207386-87-6</td>
<td></td>
<td>0.07%</td>
</tr>
<tr>
<td>Alkaline Phosphatase Reagent R2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-Nitrophenyl Phosphate</td>
<td>4264-83-9</td>
<td>224-246-5</td>
<td>0.7%</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

ALKALINE PHOSPHATASE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Alkaline Phosphatase Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Colorless
Odor: Odorless
PH R1: 10.4
PH R2: 9.0
Specific Gravity R1: 1.0191 g/mL
Specific Gravity R2: 1.0251
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported
Material Safety Data Sheet

ALKALINE PHOSPHATASE

**SECTION 11 – Toxicological Information**

Chronic Effects: Data not available

Other health hazards: Data not available

**SECTION 12 – Ecological Information**

Data not available

**SECTION 13 – Disposal Considerations**

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**SECTION 14 – Transport Information**

May be transported freely

**SECTION 15 – Regulatory Information**

US Federal Regulations:

This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES None required.

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
Material Safety Data Sheet

ALKALINE PHOSPHATASE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****
This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

ALANINE AMINOTRANSFERASE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Alanine Aminotransferase
Catalog Number: 10205-4
Synonyms: ALT/SGOT

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor R1</td>
<td>Clear, odorless solution</td>
</tr>
<tr>
<td>Appearance and Odor R2</td>
<td>Clear, odorless solution</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Specific Gravity R1</td>
<td>1.0222</td>
</tr>
<tr>
<td>Specific Gravity R1</td>
<td>1.0106</td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1% or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alanine Aminotranferase Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-Alanine</td>
<td>56-41-7</td>
<td>200-273-8</td>
<td>500 mmole/L</td>
</tr>
<tr>
<td>LDH (rabbit muscle)</td>
<td></td>
<td></td>
<td>1200 U/L</td>
</tr>
<tr>
<td>Tris Buffer (pH 7.5)</td>
<td></td>
<td></td>
<td>100 mmole/L</td>
</tr>
<tr>
<td>Alanine Aminotranferase Reagent R2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>α-Ketoglutarate</td>
<td>606-68-8</td>
<td>205-759-3</td>
<td>0.22 %</td>
</tr>
<tr>
<td>NADH, disodium salt</td>
<td></td>
<td></td>
<td>0.18 mmole/L</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

ALANINE AMINOTRANSFERASE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Alanine Aminotransferase Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 –Handling and Storage****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Colorless
Odor: Odorless
PH R1: 7.5
PH R2:
Specific Gravity R1: 1.0222
Specific Gravity R2: 1.0106
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported
Material Safety Data Sheet

ALANINE AMINOTRANSFERASE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 11 –Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available

**** SECTION 12 –Ecological Information ****

Data not available

**** SECTION 13 –Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES None required

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
**Material Safety Data Sheet**

ALANINE AMINOTRANSFERASE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

AMYLASE

Date: April 7, 2008  Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Amyase
Catalog Number: 10217-4
Synonyms: AMY

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

Appearance and Odor Light yellow, odorless solution
Melting Point N/A
Flashpoint N/A
Vapor Density Not Determined
Vapor Pressure Not Determined
Solubility in Water Soluble in water
Specific Gravity 1.040

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-chloro-4-nitrophenyl-α-D-maltrotrioside, (CNPG3)</td>
<td>7647-14-5</td>
<td>231-598-3</td>
<td>2.25 mmole/L</td>
</tr>
<tr>
<td>Sodium Chloride</td>
<td>7647-15-2</td>
<td>231-598-3</td>
<td>350 mmole/L</td>
</tr>
<tr>
<td>Calcium Acetate</td>
<td>6.0 mmole/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Thiocyanate</td>
<td>333-20-0</td>
<td>247-852-1</td>
<td>8.7 %</td>
</tr>
<tr>
<td>Sodium Azide</td>
<td>333-20-0</td>
<td>247-852-1</td>
<td>8.7 %</td>
</tr>
<tr>
<td>MES Buffer (pH 6.0)</td>
<td>26628-22-8</td>
<td>206-370-1</td>
<td>0.1%</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

AMYLASE

Date: April 7, 2008

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Amylase Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Light yellow
Odor: Odorless
PH: 6.0
Specific Gravity: 1.040
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
Material Safety Data Sheet

AMYLASE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up. Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R32 Contact with acids liberates very toxic gas.

SAFETY PHRASES
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

<<Inset symbol for Irritant>>

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.
Material Safety Data Sheet

AMYLASE

Date: April 7, 2008

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Material Safety Data Sheet

ASPARTATE AMINOTRANSFERASE

Date: April 7, 2008  Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Aspartate Aminotransferase (Two part reagent)
Catalog Number: 10206-4
Synonyms: AST/SGOT

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

Appearance and Odor R1: Clear, Odorless  Melting Point: N/A
Appearance and Odor R2: Clear, Odorless  Vapor Density: Not Determined
Flashpoint: N/A  Solubility in Water: Soluble in water
Vapor Pressure: Not Determined
Specific Gravity R1: 1.0378
Specific Gravity R1: 1.0106

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS  #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspartate Aminotransferase Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tris Buffer (pH 7.50)</td>
<td></td>
<td></td>
<td>80 mmol/L</td>
</tr>
<tr>
<td>L-Aspartate</td>
<td></td>
<td></td>
<td>240 mmol/L</td>
</tr>
<tr>
<td>LDH (rabbit muscle)</td>
<td></td>
<td></td>
<td>600 U/L</td>
</tr>
<tr>
<td>MDH (porcine muscle)</td>
<td></td>
<td></td>
<td>600 U/L</td>
</tr>
<tr>
<td>Aspartate Aminotransferase Reagent R2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>α-Ketoglutarate</td>
<td></td>
<td></td>
<td>12 mmol/L</td>
</tr>
<tr>
<td>NADH, disodium salt</td>
<td>606-68-8</td>
<td>210-123-3</td>
<td>0.18 mmol/L</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

ASPARTATE AMINOTRANSFERASE

Date: April 7, 2008  Emergency Phone 781-275-4892

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Aspartate Aminotransferase Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.
Storage: Store at 2-8 °C until the expiration date listed on the label.
**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves  
Avoid contact with skin and eyes  
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>PH R1</td>
<td>7.8</td>
</tr>
<tr>
<td>PH R2</td>
<td>9.6</td>
</tr>
<tr>
<td>Specific Gravity R1</td>
<td>1.0378</td>
</tr>
<tr>
<td>Specific Gravity R2</td>
<td>1.0106</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Freezing/Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water-soluble</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>Mixture</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**** SECTION 10 – Stability and Reactivity ****

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Data not available</td>
</tr>
<tr>
<td>Incompatibilities with other chemicals</td>
<td>Data not available</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Data not available</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Has not been reported</td>
</tr>
</tbody>
</table>
**** SECTION 11 – Toxicological information ****
Chronic Effects: Data not available
Other health hazards: Data not available

**** SECTION 12 – Ecological Information ****
Data not available

**** SECTION 13 – Disposal Considerations ****
Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****
May be transported freely

**** SECTION 15 – Regulatory Information ****
US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES None required.

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
Material Safety Data Sheet

ASPARTATE AMINOTRANSFERASE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

BLOOD UREA NITROGEN

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Blood Urea Nitrogen
Catalog Number: 10202-4
Synonyms: BUN

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

Appearance and Odor Clear, odorless solution
Flashpoint N/A
Vapor Pressure Not Determined
Specific Gravity 1.0458

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>α-Ketoglutarate</td>
<td></td>
<td></td>
<td>14 mM</td>
</tr>
<tr>
<td>Urease (botanical)</td>
<td></td>
<td></td>
<td>&gt; 50 KU/L</td>
</tr>
<tr>
<td>GLDH (mammal)</td>
<td></td>
<td></td>
<td>&gt; 12 KU/L</td>
</tr>
<tr>
<td>Adenosine diphosphate</td>
<td>58-64-0</td>
<td>200-392-5</td>
<td>5.0 mM</td>
</tr>
<tr>
<td>NADH analog</td>
<td></td>
<td></td>
<td>0.2. mM</td>
</tr>
</tbody>
</table>
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Blood Urea Nitrogen Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
Material Safety Data Sheet

BLOOD UREA NITROGEN

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Clear
Odor: Odorless
PH: 8.0
Specific Gravity: 1.0458
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
Material Safety Data Sheet

BLOOD UREA NITROGEN

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES none required

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.
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Material Safety Data Sheet

TOTAL CALCIUM

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Total Calcium (Two part reagent)
Catalog Number: 10210-4
Synonyms: CA

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

Appearance and Odor R1: Clear, odorless solution
Appearance and Odor R2: Clear, odorless solution
Flashpoint: N/A
Vapor Pressure: Not Determined
Specific Gravity: 1.0064

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration</th>
<th>CAS #</th>
<th>EINECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphate Buffer (pH 7.5)</td>
<td>50 mmol/L</td>
<td>207386-92-3</td>
<td></td>
</tr>
<tr>
<td>8-Hydroxyquinoline-5-sulfonic acid</td>
<td>5 mmol/L</td>
<td>1668-00-4</td>
<td>216-788-6</td>
</tr>
<tr>
<td>Arsenazo III</td>
<td>0.12 mmol/L</td>
<td>7647-01-0</td>
<td>231-595-7</td>
</tr>
<tr>
<td>Calcium Reagent R2 (cleaner):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid</td>
<td>25 mmol/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stabilizers and surfactant</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Calcium Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
Material Safety Data Sheet

TOTAL CALCIUM

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State R1 & R2: Liquid
Appearance R1 & R2: Clear
Odor R1 & R2: Odorless
PH R1: 7.5
PH R2: 2.07
Specific Gravity: 1.0064
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
**** SECTION 12 – Ecological Information ****
Data not available

**** SECTION 13 – Disposal Considerations ****
Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****
May be transported freely

**** SECTION 15 – Regulatory Information ****
US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
R36/37/38 Irritating to eyes, respiratory system and skin

SAFETY PHRASES
S28 After contact with skin, wash immediately with plenty of water.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

<<Insert symbol for Corrosive & Toxic>>
Material Safety Data Sheet

TOTAL CALCIUM

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****
This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet
EasyCal

Date: April 14, 2008
Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: EasyCal
Catalog Number: 10651
Synonyms: Chemistry Calibrator

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Light yellow, lyophilized powder</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1% or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.
### **SECTION 3 – Composition, Information on Ingredients**

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Calibration Values*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albumin</td>
<td>3.7 g/dL</td>
</tr>
<tr>
<td>Bicarbonate</td>
<td>25 meq/L</td>
</tr>
<tr>
<td>Bilirubin, direct</td>
<td>2.60 mg/dL</td>
</tr>
<tr>
<td>Bilirubin, total</td>
<td>3.8 mg/dL</td>
</tr>
<tr>
<td>Calcium</td>
<td>9.5 mg/dL</td>
</tr>
<tr>
<td>Cholesterol</td>
<td>171 mg/dL</td>
</tr>
<tr>
<td>Creatinine</td>
<td>4.0 mg/dL</td>
</tr>
<tr>
<td>Glucose</td>
<td>166 mg/dL</td>
</tr>
<tr>
<td>Iron</td>
<td>219 µg/dL</td>
</tr>
<tr>
<td>Magnesium</td>
<td>2.7 mg/dL</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>5.7 mg/dL</td>
</tr>
<tr>
<td>Total Protein</td>
<td>6.2 g/dL</td>
</tr>
<tr>
<td>Triglycerides</td>
<td>190 mg/dL</td>
</tr>
<tr>
<td>Urea-N (BUN)</td>
<td>48 mg/dL</td>
</tr>
<tr>
<td>Uric Acid</td>
<td>5.4 mg/dL</td>
</tr>
</tbody>
</table>

* approximate value after reconstitution
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: EasyCal calibrator material is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: powder
Appearance: light yellow
Odor: Odorless
PH: N/A
Specific Gravity: N/A
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
Material Safety Data Sheet

EasyCal

Date: April 14, 2008
Emergency Phone 781-275-4892

**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES None required.

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.
Material Safety Data Sheet

EasyCal

Date: April 14, 2008

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Material Safety Data Sheet

CHOLESTEROL

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Cholesterol
Catalog Number: 10204-4
Synonyms: CHOL

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Appearance and Odor</th>
<th>Clear beige, odorless solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.024</td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration</th>
<th>CAS #</th>
<th>EINECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pipes Buffer (pH 6.7)</td>
<td>50 mmol/L</td>
<td>108-95-2</td>
<td>203-632-7</td>
</tr>
<tr>
<td>Phenol</td>
<td>24 mmol/L</td>
<td>361-09-1</td>
<td>206-643-5</td>
</tr>
<tr>
<td>Sodium Cholate</td>
<td>5 mmol/L</td>
<td>83-07-8</td>
<td>210-452-3</td>
</tr>
<tr>
<td>4-Aminoantipyrene</td>
<td>0.5 mmol/L</td>
<td>9028-76-6</td>
<td>232-668-6</td>
</tr>
<tr>
<td>Cholesterol esterase</td>
<td>≥180 U/L</td>
<td>9003-99-0</td>
<td>232-668-6</td>
</tr>
<tr>
<td>Cholesterol oxidase</td>
<td>≥200 U/L</td>
<td>0000-0</td>
<td></td>
</tr>
<tr>
<td>Peroxidase</td>
<td>≥ 1000 U/L</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Cholesterol Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
Material Safety Data Sheet

CHOLESTEROL

Date: April 10, 2008  Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Clear, beige
Odor: Odorless
PH: 6.7
Specific Gravity: 1.024
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 –Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 –Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
Material Safety Data Sheet

CHOLESTEROL

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:

This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES

R42 May cause sensitization by inhalation.

SAFETY PHRASES

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.
Material Safety Data Sheet

CHOLESTEROL

Date: April 10, 2008

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Material Safety Data Sheet

Creatine Kinase

Date: April 7, 2008 Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Creatine Kinase (two part reagent)
Catalog Number: 10222-4
Synonyms: CK

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Appearance and Odor R1</th>
<th>Clear, odorless solution</th>
<th>Melting Point</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor R2</td>
<td>Clear, odorless solution</td>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
<td>Solubility in Water</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity R1</td>
<td>1.0141</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity R1</td>
<td>1.0390</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creatine Kinase Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Imidazole Buffer (pH 6.7)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D-Glucose</td>
<td>626-91-1</td>
<td>210-498-3</td>
<td>100 mmol/L</td>
</tr>
<tr>
<td>N-Acetyl-L-cysteine</td>
<td>16674-78-5</td>
<td>200-178-1</td>
<td>10.0 mmol/L</td>
</tr>
<tr>
<td>Magnesium Acetate</td>
<td>53-59-8</td>
<td>200-449-4</td>
<td>2.0 mmol/L</td>
</tr>
<tr>
<td>NADP</td>
<td>60-00-4</td>
<td>200-449-4</td>
<td>2.0 mmol/L</td>
</tr>
<tr>
<td>EDTA</td>
<td></td>
<td></td>
<td>2500 U/L</td>
</tr>
<tr>
<td>Hexokinase (Baker's yeast)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Creatine Kinase Reagent R2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Imidazole Buffer (pH 6.7)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Creatine Phosphate</td>
<td>58-64-0</td>
<td>200-392-5</td>
<td>2.0 mmol/L</td>
</tr>
<tr>
<td>ADP</td>
<td>61-19-8</td>
<td>200-500-0</td>
<td>5.0 mmol/L</td>
</tr>
<tr>
<td>AMP</td>
<td>04108-02-8</td>
<td>302-339-2</td>
<td>10.0 µmol/L</td>
</tr>
<tr>
<td>Diadenosine pentaphosphate</td>
<td></td>
<td></td>
<td>1500 U/L</td>
</tr>
<tr>
<td>Glucose-6-PDH (Baker's yeast)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDTA</td>
<td>60-00-4</td>
<td>200-449-4</td>
<td>2.0 mmol/L</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

Creatine Kinase

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Creatine Kinase Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
Material Safety Data Sheet

Creatine Kinase

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Colorless
Odor: Odorless
PH R1: 6.7
PH R2: 6.7
Specific Gravity R1: 1.0378
Specific Gravity R2: 1.0106
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported
Material Safety Data Sheet

Creatine Kinase

Date: April 7, 2008

**** SECTION 11 –Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available

**** SECTION 12 –Ecological Information ****

Data not available

**** SECTION 13 –Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES None required.

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
Material Safety Data Sheet

Creatine Kinase

Date: April 7, 2008
Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

CLEANER KIT

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Cleaner Kit
Catalog Number: 10661
Synonyms:

**** SECTION 2 – Hazards Identification ****

Appearance and Odor Clear solution
Flashpoint N/A
Vapor Pressure Not Determined
Specific Gravity N/A
Melting Point N/A
Vapor Density Not Determined
Solubility in Water Soluble in water

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration</th>
<th>CAS #</th>
<th>EINECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Hypochlorite solution</td>
<td>1%</td>
<td>7681-52-9</td>
<td>231-668-3</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

CLEANER KIT

Date: April 10, 2008

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Cleaner Kit is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.
Storage: Store at 2-8 °C until the expiration date listed on the label.
Material Safety Data Sheet

CLEANER KIT

Date: April 10, 2008

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Clear, light yellow
Odor: Bleach
PH: N/A
Specific Gravity: N/A
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: NaOCl
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up. Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
R36/38 Irritating to eyes and skin.

SAFETY PHRASES
S 26 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.
**** SECTION 16 – Additional Information ****
This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

Cleaner Kit – Chemistry & ISE

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Cleaner Kit – Chemistry & ISE (Two part reagent)
Catalog Number: 10660
Synonyms: N/A

**** SECTION 2 – Composition, Information on Ingredients ****

*For In Vitro Diagnostic Use Only*

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration</th>
<th>CAS #</th>
<th>EINECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pepsin</td>
<td>Powder</td>
<td>9001-75-6</td>
<td>232-629-3</td>
</tr>
<tr>
<td>Reagent R2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrochloric Acid*</td>
<td>0.05 N (0.18%)</td>
<td>7647-01-0</td>
<td>231-595-7</td>
</tr>
</tbody>
</table>

*In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of an extremely hazardous(e.g. carcinogen) compound. This product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

Appearance and Odor R1: White Powder
Flashpoint: N/A
Vapor Pressure: Not Determined
Specific Gravity: N/A
Melting Point: N/A
Solubility in Water: Soluble in water
Material Safety Data Sheet

Cleaner Kit – Chemistry & ISE

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 3 – Hazards Identification ****

Emergency Overview: Does not present any significant health hazards. May cause irritation and allergic reaction. Wash areas of contact with water. If swallowed, give large amounts of water. Do not induce vomiting. Call a physician, if necessary.

Inhalation: May cause irritation.
Eye Contact: May cause irritation, redness, pain and tearing.
Skin Contact: May cause slight irritation.
Ingestion: Large doses may cause nausea, vomiting and diarrhea.
Chronic Effects/Carcinogenicity: None
NTP: No.
OSHA: No.

**** SECTION 4 – First Aid Measures ****

In all cases, seek qualified evaluation.

Inhalation: Provide fresh air. Restore or support breathing, if necessary. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Get medical attention, if irritation develops or persists.

Ingestion: Drink large quantities of water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.
Material Safety Data Sheet

Cleaner Kit – Chemistry & ISE

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 5 – Fire fighting measures ****

General Information: Cleaner wedge is not flammable.
Extinguishing Media: Use any suitable means for extinguishing surrounding fire.
Fire & Explosion Hazard: Not considered to be a fire or explosion hazard.
Firefighting Instructions: Use normal procedures.
Firefighting Equipment: Use protective clothing and breathing equipment appropriate to surrounding fire.

**** SECTION 6 – Accidental Release Measures ****

Vacuum or sweep up solid material and treat as normal solid waste. Cover liquid spill with sodium carbonate or a soda ash-slaked lime mixture (1:1). Mix and add water to form slurry. Decant liquid to drain with excess water. Wash the area after material has been removed with soda ash solution. Always dispose of material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 –Handling and Storage****

Handling: Avoid contact with skin and eyes. Do not ingest. Wash hands thoroughly after handling.
Storage: Store at ambient temperature before mixing; store 2 - 8°C after mixing.

**** SECTION 8 – Exposure Controls / Personal Protection ****

No specific controls are needed. Normal room ventilation is adequate
Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed
**** SECTION 9 – Physical and Chemical properties ****

Physical State R1: powder  
Appearance R1: powder  
Odor R1 & R2: Odorless  
Solubility: Water-soluble  
Molecular Formula R1: N/A  
Molecular Formula R2: HCl

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable  
Conditions to avoid: Data not available  
Incompatibilities with other chemicals: Data not available  
Hazardous Decomposition Products: Data not available  
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available  
Other health hazards: Data not available

**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

None. Always dispose of material in a way that is consistent with federal, state and local regulation.

**** SECTION 14 – Transport Information ****

May be transported freely
Material Safety Data Sheet

Cleaner Kit – Chemistry & ISE

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
R36/37/38 Irritating to eyes, respiratory system and skin
R42 May cause sensitization by inhalation

SAFETY PHRASES
S22 Do not breathe the dust
S24 Avoid contact with skin
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.

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.
Material Safety Data Sheet

Cleaner Kit – Chemistry & ISE

Date: April 8, 2008

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Material Safety Data Sheet

Carbon Dioxide

Date: April 7, 2008  Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Carbon Dioxide
Catalog Number: 10209-4
Synonyms: CO2, Bicarbonate

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Pale yellow, odorless solution</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.0206</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphophenolpyruvate (PEP)</td>
<td>138-08-9</td>
<td>205-312-2</td>
<td>≥5 mmol/L</td>
</tr>
<tr>
<td>PEPC (microbial)</td>
<td></td>
<td></td>
<td>≤2000 U/L</td>
</tr>
<tr>
<td>Malate dehydrogenase (EC1.1.1.37)</td>
<td></td>
<td></td>
<td>&gt;1000 U/L</td>
</tr>
<tr>
<td>NADH analog</td>
<td></td>
<td></td>
<td>≥0.30 mmol/L</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

Carbon Dioxide

Date: April 7, 2008

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Carbon Dioxide Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
Material Safety Data Sheet

Carbon Dioxide

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Light yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>PH</td>
<td>7.6</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.0206</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Freezing/Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water-soluble</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>Mixture</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**** SECTION 10 – Stability and Reactivity ****

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Data not available</td>
</tr>
<tr>
<td>Incompatibilities with other chemicals</td>
<td>Data not available</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Data not available</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Has not been reported</td>
</tr>
</tbody>
</table>

**** SECTION 11 – Toxicological information ****

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Effects</td>
<td>Data not available</td>
</tr>
<tr>
<td>Other health hazards</td>
<td>Data not available</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

Carbon Dioxide

Date: April 7, 2008   Emergency Phone 781-275-4892

**** SECTION 12 –Ecological Information ****

Data not available

**** SECTION 13 –Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device.

RISK PHRASES       None required

SAFETY PHRASES       S24 Avoid contact with skin
                    S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.
Material Safety Data Sheet

Carbon Dioxide

Date: April 7, 2008

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Material Safety Data Sheet

CREATININE

Date: April 8, 2008  Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Creatinine (two part reagent)
Catalog Number: 10203-4
Synonyms: CREA

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

Appearance and Odor R1: Clear, odorless solution  Melting Point N/A
Appearance and Odor R2: Clear, odorless solution  Vapor Density Not Determined
Flashpoint N/A  Solubility in Water Soluble in water
Vapor Pressure Not Determined
Specific Gravity R1 1.0058 g/mL
Specific Gravity R2 1.0153 g/mL

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creatinine Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Good Buffer (pH 7.4)</td>
<td></td>
<td></td>
<td>25 mmol/L</td>
</tr>
<tr>
<td>Creatinine amidinohydrolase</td>
<td></td>
<td></td>
<td>&gt;25 KU/L</td>
</tr>
<tr>
<td>Sarcosine oxidase</td>
<td></td>
<td></td>
<td>&gt; 7 KU/L</td>
</tr>
<tr>
<td>Ascorbate oxidase</td>
<td></td>
<td></td>
<td>&gt; 4 KU/L</td>
</tr>
<tr>
<td>ESPMT</td>
<td></td>
<td></td>
<td>140 mg/L</td>
</tr>
<tr>
<td>Creatinine Reagent R2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Good Buffer (pH 7.3)</td>
<td></td>
<td></td>
<td>100 mmol/L</td>
</tr>
<tr>
<td>Creatinine amidinohydrolase</td>
<td></td>
<td></td>
<td>&gt;250 KU/L</td>
</tr>
<tr>
<td>Peroxidase</td>
<td></td>
<td></td>
<td>&gt; 5 KU/L</td>
</tr>
<tr>
<td>4-Aminoantipyrine</td>
<td>83-07-8</td>
<td>210-452-3</td>
<td>600 mg/L</td>
</tr>
</tbody>
</table>
 **** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

 **** SECTION 5 – Fire fighting measures ****

General Information: Creatinine Reagent is not flammable

 **** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

 **** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State R1 & R2: Liquid
Appearance R1 & R2: Colorless
Odor R1 & R2: Odorless
PH R1: 7.4
PH R2: 7.3
Specific Gravity R1: 1.0058 g/mL
Specific Gravity R2: 1.0153 g/mL
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported
**** SECTION 11 – Toxicological information ****
Chronic Effects: Data not available
Other health hazards: Data not available

**** SECTION 12 – Ecological Information ****
Data not available

**** SECTION 13 – Disposal Considerations ****
Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****
May be transported freely

**** SECTION 15 – Regulatory Information ****
US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES none required

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
Material Safety Data Sheet

CREATININE

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

URINE CREATININE CALIBRATOR

Date: April 10, 2008 Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Urine Creatinine Calibrator
Catalog Number: 10652
Synonyms: CREA-U CAL

**** SECTION 2 – Hazards Identification****

Appearance and Odor Clear solution
Flashpoint N/A
Vapor Pressure Not Determined
Specific Gravity N/A
Melting Point N/A
Vapor Density Not Determined
Solubility in Water Soluble in water

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1% or more of a carcinogen

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration</th>
<th>CAS #</th>
<th>EINECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creatinine</td>
<td>100 mg/dL</td>
<td>60-27-5</td>
<td>200-466-7</td>
</tr>
<tr>
<td>Hydrochloric Acid</td>
<td>0.1 N</td>
<td>7647-01-0</td>
<td>231-595-7</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

URINE CREATININE CALIBRATOR

Date: April 10, 2008
Emergency Phone 781-275-4892

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Urine Creatinine Calibrator is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 –Handling and Storage****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2- 8 °C until the expiration date listed on the label.
Material Safety Data Sheet

URINE CREATININE CALIBRATOR

Date: April 10, 2008 Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Clear
Odor: odorless
PH: N/A
Specific Gravity: N/A
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: HCl
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
Material Safety Data Sheet

URINE CREATININE CALIBRATOR

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES
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.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible.)
Material Safety Data Sheet

URINE CREATININE CALIBRATOR

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****
This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

URINE CREATinine

Date: April 10, 2008 Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Creatinine (two part reagent)
Catalog Number: 10260-4
Synonyms: CREA-U

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

| Appearance and Odor R1: | Clear, odorless solution | Melting Point | N/A |
| Appearance and Odor R2: | Clear, odorless solution | Vapor Density | Not Determined |
| Flashpoint | N/A | Solubility in Water | Soluble in water |
| Vapor Pressure | Not Determined |
| Specific Gravity R1 | 1.0058 g/mL |
| Specific Gravity R2 | 1.0153 g/mL |

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1% or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
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<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creatinine Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Good Buffer (pH 7.4)</td>
<td></td>
<td></td>
<td>25 mmol/L</td>
</tr>
<tr>
<td>Creatinine amidinohydrolase</td>
<td></td>
<td></td>
<td>&gt;25 KU/L</td>
</tr>
<tr>
<td>Sarcosine oxidase</td>
<td></td>
<td></td>
<td>&gt; 7 KU/L</td>
</tr>
<tr>
<td>Ascorbate oxidase</td>
<td></td>
<td></td>
<td>&gt; 4 KU/L</td>
</tr>
<tr>
<td>ESPMT</td>
<td></td>
<td></td>
<td>140 mg/L</td>
</tr>
<tr>
<td>Creatinine Reagent R2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Good Buffer (pH 7.3)</td>
<td></td>
<td></td>
<td>100 mmol/L</td>
</tr>
<tr>
<td>Creatinine amidinohydrolase</td>
<td></td>
<td></td>
<td>&gt;250 KU/L</td>
</tr>
<tr>
<td>Peroxidase</td>
<td></td>
<td></td>
<td>&gt; 5 KU/L</td>
</tr>
<tr>
<td>4-Aminoantipyrene</td>
<td>83-07-8</td>
<td>210-452-3</td>
<td>600 mg/L</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

URINE CREATININE

Date: April 10, 2008

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Creatinine Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.
Storage: Store at 2-8 °C until the expiration date listed on the label.
Material Safety Data Sheet

URINE CREATININE

Date: April 10, 2008

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State R1 & R2: Liquid
Appearance R1 & R2: Colorless
Odor R1 & R2: Odorless
PH R1: 7.4
PH R2: 7.3
Specific Gravity R1: 1.0058 g/mL
Specific Gravity R2: 1.0153 g/mL
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported
Material Safety Data Sheet

URINE CREATININE

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 11 –Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available

**** SECTION 12 –Ecological Information ****

Data not available

**** SECTION 13 –Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES none required

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
Material Safety Data Sheet

URINE CREATININE

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

Direct Bilirubin

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Direct Bilirubin (two part reagent)
Catalog Number: 10212-4
Synonyms: D-BIL

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Material Property</th>
<th>R1 Data</th>
<th>R2 Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor R1</td>
<td>Clear, odorless solution</td>
<td>Clear, slightly acidic odor</td>
</tr>
<tr>
<td>Appearance and Odor R2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity R1</td>
<td>1.0126 g/mL</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity R2</td>
<td>1.0173 g/mL</td>
<td></td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct Bilirubin Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDTA, disodium salt</td>
<td>139-33-3</td>
<td>205-358-3</td>
<td>0.1 mmol/L</td>
</tr>
<tr>
<td>NaCl</td>
<td>7647-14-5</td>
<td>231-598-3</td>
<td>154 mmol/L</td>
</tr>
<tr>
<td>Sulfamic Acid</td>
<td>5329-14-6</td>
<td>226-218-8</td>
<td>100 mmol/L</td>
</tr>
<tr>
<td>Direct Bilirubin Reagent R2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,4-dichlorophenylidiazonium salt</td>
<td></td>
<td></td>
<td>5 mmol/L</td>
</tr>
<tr>
<td>HCL</td>
<td>7647-01-0</td>
<td>231-595-7</td>
<td>0.9 mmol/L</td>
</tr>
<tr>
<td>EDTA, disodium salt</td>
<td>139-33-3</td>
<td>205-358-3</td>
<td>0.13 mmol/L</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

Direct Bilirubin

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Direct Bilirubin Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Colorless
Odor: Slightly acidic
PH R1: 1.2
PH R2: <0.5
Specific Gravity R1: 1.0191 g/mL
Specific Gravity R2: 1.0251
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported
Material Safety Data Sheet

Direct Bilirubin

Date: April 8, 2008  Emergency Phone 781-275-4892

**** SECTION 11 –Toxicological information ****

Chronic Effects:  Data not available
Other health hazards:  Data not available

**** SECTION 12 –Ecological Information ****

Data not available

**** SECTION 13 –Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
R20/21/22  Harmful by inhalation, in contact with skin and if swallowed
R34  Causes burns

SAFETY PHRASES
S26 In case of contact with eyes, rinse immediately with plenty of water
S35 This material and its container must be disposed of in a safe way
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label whenever possible)
Material Safety Data Sheet

Direct Bilirubin

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

PRECISION TEST DYE

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Precision Test Dye (two part reagent)
Catalog Number: 10764
Synonyms: DYE

**** SECTION 2 – Hazards Identification ****

Appearance and Odor R1: Clear, yellow, odorless solution
Appearance and Odor R2: Clear, dark orange, odorless solution
Flashpoint: N/A
Vapor Pressure: Not Determined
Specific Gravity: N/A

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration</th>
<th>CAS #</th>
<th>EINECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Dye R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Dichromate</td>
<td>10 mmol/L</td>
<td>7778-50-9</td>
<td>231-906-6</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>0.01 N</td>
<td>7664-93-9</td>
<td>231-639-5</td>
</tr>
<tr>
<td>Test Dye R2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium Dichromate</td>
<td>100 mmol</td>
<td>7778-50-9</td>
<td>231-906-6</td>
</tr>
<tr>
<td>Sulfuric Acid</td>
<td>0.01 N</td>
<td>7664-93-9</td>
<td>231-639-5</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

PRECISION TEST DYE

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Test Dye is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
Material Safety Data Sheet

PRECISION TEST DYE

Date: April 10, 2008  Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State R1 & R2: Liquid
Appearance R1: Clear, light orange
Appearance R2: Clear, dark orange
Odor: odorless
PH: N/A
Specific Gravity: N/A
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
**** SECTION 12 –Ecological Information ****

Data not available

**** SECTION 13 –Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
R36/38 Irritating to eyes and skin.
R43 May cause sensitization by skin contact

SAFETY PHRASES
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.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible.)

<<Insert X & toxic symbols>>
Material Safety Data Sheet

PRECISION TEST DYE

Date: April 10, 2008                  Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****
This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to
adhere to the hazard criteria and content requirement of the US OSHA Communication Standard,
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exemplary damages, however arising, even if MEDICA has been advised of the possibility of such damages.
Material Safety Data Sheet

IRON

Date: April 8, 2008  Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Iron (two part reagent)
Catalog Number: 10223-4
Synonyms: FE

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Property</th>
<th>R1 Description</th>
<th>R2 Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Clear, solution with mild vinegar odor</td>
<td>Clear yellow, odorless solution</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Specific Gravity R1</td>
<td>1.024 g/mL</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity R2</td>
<td>1.018 g/mL</td>
<td></td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration</th>
<th>CAS #</th>
<th>EINECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iron Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetate Buffer (pH4.5)</td>
<td>0.669%</td>
<td>50-81-7</td>
<td>200-066-2</td>
</tr>
<tr>
<td>Ascorbic Acid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iron Reagent R2:</td>
<td>0.49 %</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ferene®</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Iron Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.
Storage: Store at 18-25 °C until the expiration date listed on the label.
Material Safety Data Sheet

IRON

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State R1 & R2: Liquid
Appearance R1: Colorless
Appearance R2 Light yellow
Odor R1: Mild vinegar
Odor R2: Odorless
PH R1: 4.5
PH R2: 2.6
Specific Gravity R1: 1.024 g/mL
Specific Gravity R2: 1.018 g/mL
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported
Material Safety Data Sheet

IRON

Date: April 8, 2008

**** SECTION 11 –Toxicological Information ****
Chronic Effects: Data not available
Other health hazards: Data not available

**** SECTION 12 –Ecological Information ****
Data not available

**** SECTION 13 –Disposal Considerations ****
Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****
May be transported freely

**** SECTION 15 – Regulatory Information ****
US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
R22 Harmful if swallowed
R43 May cause sensitization by skin contact

SAFETY PHRASES
S24 Avoid contact with skin
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

<<Insert Irritant symbol>>

Page 4 of 5
Material Safety Data Sheet

IRON

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

GAMMA-GLUTAMYL TRANSFERASE

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Gamma-Glutamyl Transferase (two part reagent)
Catalog Number: 10219-4
Synonyms: GGT

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

- **Appearance and Odor R1:** Clear, odorless solution
- **Appearance and Odor R2:** Clear, odorless solution
- **Flashpoint:** N/A
- **Vapor Pressure:** Not Determined
- **Specific Gravity R1:** 1.0141 g/mL
- **Specific Gravity R2:** 1.0063 g/mL

Vapor Density
Solubility in Water
Not Determined
Soluble in water

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>GGT Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-Glyclyglycine</td>
<td>556-50-3</td>
<td>209-127-8</td>
<td>100 mmol/L</td>
</tr>
<tr>
<td>Buffer (pH 8.3) and preservative</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GGT Reagent R2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L-γ-glutamyl-3-carboxy-4-nitroanilide</td>
<td></td>
<td></td>
<td>4 mmol/L</td>
</tr>
</tbody>
</table>
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Gamma-Glutamyl Transferase Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State R1 & R2: Liquid
Appearance R1 & R2: Colorless
Odor R1 & R2: Odorless
PH R1: 8.25
PH R2: 6.2
Specific Gravity R1: 1.0141 g/mL
Specific Gravity R2: 1.0063 g/mL
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported
Material Safety Data Sheet

GAMMA-GLUTAMYL TRANSFERASE

Date: April 8, 2008

***** SECTION 11 –Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available

***** SECTION 12 –Ecological Information ****

Data not available

***** SECTION 13 –Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

***** SECTION 14 – Transport Information ****

May be transported freely

***** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES none required

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
**** SECTION 16 – Additional Information ****
This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

GLUCOSE, HEXOKINASE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Glucose, Hexokinase
Catalog Number: 10200-4
Synonyms: GLU-H

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

Appearance and Odor: Clear, odorless solution
Flashpoint: N/A
Vapor Pressure: Not Determined
Specific Gravity: 1.0167

Melting Point: N/A
Vapor Density: Not Determined
Solubility in Water: Soluble in water

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1% or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAD</td>
<td>53-84-9</td>
<td>200-184-4</td>
<td>2 mmol/L</td>
</tr>
<tr>
<td>Adenosine Triphosphate</td>
<td>56-65-5</td>
<td>200-283-2</td>
<td>4 mmol/L</td>
</tr>
<tr>
<td>Magnesium Salt</td>
<td></td>
<td></td>
<td>2 mmol/L</td>
</tr>
<tr>
<td>Hexokinase</td>
<td></td>
<td></td>
<td>&gt;2000 U/L</td>
</tr>
<tr>
<td>Glucose-6-phosphate dehydrogenase (G-6-PD) (Leuconostoc mesenteroides)</td>
<td></td>
<td></td>
<td>&gt;4000 U/L</td>
</tr>
</tbody>
</table>

Page 1 of 5
Material Safety Data Sheet

GLUCOSE, HEXOKINASE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Glucose-Hexokinase Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
Material Safety Data Sheet

GLUCOSE, HEXOKINASE
Date: April 7, 2008

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Clear
Odor: Odorless
PH: 7.1
Specific Gravity: 1.0038
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 –Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 –Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
Material Safety Data Sheet

GLUCOSE, HEXOKINASE

Date: April 7, 2008

Emergency Phone 781-275-4892

*** SECTION 12 – Ecological Information ****

Data not available

*** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

*** SECTION 14 – Transport Information ****

May be transported freely

*** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device.

RISK PHRASES None required

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

*** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.
Material Safety Data Sheet

GLUCOSE, HEXOKINASE

Date: April 7, 2008

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Material Safety Data Sheet

GLUCOSE-TRINDER

Date: April 10, 2008  Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Glucose-Trinder
Catalog Number: 10201-4
Synonyms: GLU-T

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

Appearance and Odor  Peach colored, odorless solution  Melting Point  N/A
Flashpoint  N/A  Vapor Density  Not Determined
Vapor Pressure  Not Determined  Solubility in Water  Soluble in water
Specific Gravity  1.022

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration</th>
<th>CAS #</th>
<th>EINECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphate Buffer</td>
<td>13.8 mmol/L</td>
<td>108-95-2</td>
<td>203-632-7</td>
</tr>
<tr>
<td>Phenol</td>
<td>10 mmol/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4-Aminoantipyrene</td>
<td>0.3 mmol/L</td>
<td>83-07-8</td>
<td>210-452-3</td>
</tr>
<tr>
<td>Glucose oxidase</td>
<td>≥10,000 U/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Peroxidase</td>
<td>≥ 700 U/L</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

GLUCOSE-TRINDER

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Glucose-Trinder Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Peach
Odor: Odorless
PH: 7.4
Specific Gravity: 1.022
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
Material Safety Data Sheet

GLUCOSE-TRINDER

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 12 –Ecological Information ****

Data not available

**** SECTION 13 –Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:

This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES none required

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.
Material Safety Data Sheet

GLUCOSE-TRINDER

Date: April 10, 2008

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Material Safety Data Sheet

HDL CHOLESTEROL

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: HDL Cholesterol (two part reagent)
Catalog Number: 10211-4
Synonyms: HDL

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Property</th>
<th>R1</th>
<th>R2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Lt. yellow, clear, odorless solution</td>
<td>Lt. brown, clear, odorless solution</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble in water</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Specific Gravity R1</td>
<td>1.014 g/mL</td>
<td>1.003 g/mL</td>
</tr>
<tr>
<td>Specific Gravity R2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good Buffer</td>
<td>1-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ascorbate oxidase</td>
<td>9029-44-1</td>
<td>232-852-6</td>
<td></td>
</tr>
<tr>
<td>Cholesterol oxidase</td>
<td>9028-76-6</td>
<td>232-842-1</td>
<td></td>
</tr>
<tr>
<td>Peroxidase (horseradish)</td>
<td>9003-99-0</td>
<td>232-668-6</td>
<td></td>
</tr>
<tr>
<td>N,N-bis(4-Sulphobutyl)-m-toluidene, disodium salt</td>
<td>not assigned</td>
<td>not assigned</td>
<td>&lt; 0.1</td>
</tr>
<tr>
<td>Proprietary preservative and non-ionic detergent</td>
<td></td>
<td></td>
<td>&lt; 1</td>
</tr>
<tr>
<td>HDL Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Good Buffer</td>
<td>1-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cholesterol esterase (pseudomonas sp)</td>
<td>9026-00-0</td>
<td>232-808-6</td>
<td></td>
</tr>
<tr>
<td>4-Aminoantopyrene</td>
<td>83-07-8</td>
<td>210-452-3</td>
<td></td>
</tr>
<tr>
<td>Proprietary preservative and non-ionic detergent</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

HDL CHOLESTEROL

Date: April 10, 2008    Emergency Phone 781-275-4892

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: HDL Cholesterol Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 –Handling and Storage****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
Material Safety Data Sheet

HDL CHOLESTEROL

Date: April 10, 2008 Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State R1 & R2: Liquid
Appearance R1: Clear, light yellow
Appearance R2: Clear, light brown
Odor R1 & R2: Odorless
PH R1: 7.2
PH R2: 6.0
Specific Gravity R1: 1.014 g/mL
Specific Gravity R2: 1.003 g/mL
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported
Material Safety Data Sheet

HDL CHOLESTEROL

Date: April 10, 2008

Emergency Phone 781-275-4892

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available

**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
R 42 May cause sensitization by inhalation.

SAFETY PHRASES
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Material Safety Data Sheet

HDL CHOLESTEROL

Date: April 10, 2008  Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****
This MSDS has been prepared in accordance with the ANZ! Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

LACTATE DEHYDROGENASE

Date: April 7, 2008  Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Lactate Dehydrogenase (Two part reagent)
Catalog Number: 10215-4
Synonyms: LDH

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

Appearance and Odor R1 Clear, odorless solution  Melting Point N/A
Appearance and Odor R2 Clear, odorless solution  Vapor Density Not Determined
Flashpoint N/A  Solubility in Water Soluble in water
Vapor Pressure Not Determined
Specific Gravity R1 1.0260
Specific Gravity R1 1.0080

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration</th>
<th>CAS #</th>
<th>EINECS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lactate Dehydrogenase Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lithium L-Lactate</td>
<td>100 mmol/L</td>
<td>27848-80-2</td>
<td>248-692-5</td>
</tr>
<tr>
<td>2-Methyl-2-amino-1-propanol (pH 8.6)</td>
<td>600 mmol/l</td>
<td>124-68-5</td>
<td>204-709-8</td>
</tr>
<tr>
<td>Lactate Dehydrogenase Reagent R2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NAD</td>
<td>6 mmol/L</td>
<td>53-84-9</td>
<td>200-184-4</td>
</tr>
</tbody>
</table>
Material Safety Data Sheet

LACTATE DEHYDROGENASE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Lactate Dehydrogenase Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2- 8 °C until the expiration date listed on the label.
**Material Safety Data Sheet**

**LACTATE DEHYDROGENASE**

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

- **Physical State:** Liquid
- **Appearance:** Colorless
- **Odor:** Odorless
- **PH R1:** 8.8
- **PH R2:** 2.6
- **Specific Gravity R1:** 1.0378
- **Specific Gravity R2:** 1.0106
- **Viscosity:** N/A
- **Boiling Point:** N/A
- **Freezing/Melting Point:** N/A
- **Solubility:** Water-soluble
- **Molecular Formula:** Mixture
- **Molecular weight:** N/A

**** SECTION 10 – Stability and Reactivity ****

- **Chemical Stability:** Stable
- **Conditions to avoid:** Data not available
- **Incompatibilities with other chemicals:** Data not available
- **Hazardous Decomposition Products:** Data not available
- **Hazardous Polymerization:** Has not been reported
Material Safety Data Sheet

LACTATE DEHYDROGENASE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available

**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES None required.

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

Magnezium

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Magnesium
Catalog Number: 10220-4
Synonyms: MG

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

Appearance and Odor: Blue, odorless solution
Melting Point: N/A
Flashpoint: N/A
Vapor Density: Not Determined
Vapor Pressure: Not Determined
Solubility in Water: Soluble in water
Specific Gravity: 1.0161

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buffer (pH 11.2) Trishydroxymethylamino methane</td>
<td>14936-97-1</td>
<td>239-012-8</td>
<td>0.14 mmol/L</td>
</tr>
<tr>
<td>Xylidyl Blue-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EGTA [ethylenebis(oxyethylenenitrilo)tetraacetic acid]</td>
<td>67-42-5</td>
<td>200-651-2</td>
<td>0.1 mmol/L</td>
</tr>
<tr>
<td>Surfactant (Triton X-100) and preservatives</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnesium Reagent R2 (cleaner):</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrochloric acid</td>
<td>7647-01-0</td>
<td>231-595-7</td>
<td>25 mmol/L</td>
</tr>
<tr>
<td>Surfactant</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Magnesium Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 –Handling and Storage****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 18- 25 °C until the expiration date listed on the label.
Material Safety Data Sheet

Magnesium

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Deep Blue
Odor: Odorless
PH R1: 11.2
PH R2: 2.07
Specific Gravity: 1.0161
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
Material Safety Data Sheet

Magnesium

Date: April 8, 2008 Emergency Phone 781-275-4892

**** SECTION 12 – Ecological Information ****
Data not available

**** SECTION 13 – Disposal Considerations ****
Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****
May be transported freely

**** SECTION 15 – Regulatory Information ****
US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES  R36/37/38 Irritating to eyes, respiratory system and skin.

SAFETY PHRASES  S 26 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.

<<Insert symbol for Irritant>>
Material Safety Data Sheet

Magnesium

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet
Phosphorous

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Phosphorous (two part reagent)
Catalog Number: 10221-4
Synonyms: PHOS

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Property</th>
<th>R1</th>
<th>R2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Clear, odorless solution</td>
<td>Clear, odorless solution</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>N/A</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity R1</td>
<td>1.0133 g/mL</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity R2</td>
<td>1.0139 g/mL</td>
<td></td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1% or more of a carcinogen.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>Concentration</th>
<th>CAS #</th>
<th>EINEC #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphorous Reagent R1:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sulphuric acid</td>
<td>1.667%</td>
<td>7664-93-9</td>
<td>231-639-5</td>
</tr>
<tr>
<td>Surfactant</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphorous Reagent R2:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium Molybdate</td>
<td>2.8 mmol/L</td>
<td>12054-85-2</td>
<td>231-639-5</td>
</tr>
<tr>
<td>Sulphuric Acid</td>
<td>0.055%</td>
<td>7664-93-9</td>
<td>231-639-5</td>
</tr>
</tbody>
</table>
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Phosphorous Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 –Handling and Storage****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 18- 25 °C until the expiration date listed on the label.
Material Safety Data Sheet

Phosphorous

Date: April 8, 2008
Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State R1 & R2: Liquid
Appearance R1 & R2: Colorless
Odor R1 & R2: Odorless
PH R1: <1
PH R2: <1
Specific Gravity R1: 1.0133 g/mL
Specific Gravity R2: 1.0139 g/mL
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported
Material Safety Data Sheet

Phosphorous

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 11 – Toxicological information ****
Chronic Effects: Data not available
Other health hazards: Data not available

**** SECTION 12 – Ecological Information ****
Data not available

**** SECTION 13 – Disposal Considerations ****
Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****
May be transported freely

**** SECTION 15 – Regulatory Information ****
US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
R36/38 Irritating to eyes and skin

SAFETY PHRASES
S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

<<Insert Symbol for Xi>>
Material Safety Data Sheet

Phosphorous

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****
This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

EasyQC Levels A

Date: April 14, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: EasyQC, Level A
Catalog Number: 10791
Synonyms: General Chemistry Control, Level A

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Light yellow, lyophilized powder</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.
### SECTION 3 – Composition, Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>QC Values*</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albumin</td>
<td>4.4 (3.9 – 4.9)</td>
<td>g/dL</td>
</tr>
<tr>
<td>Alk. Phos.</td>
<td>87.6 (75.6 – 99.6)</td>
<td>U/L</td>
</tr>
<tr>
<td>ALT</td>
<td>47.0 (40.0 – 54.0)</td>
<td>U/L</td>
</tr>
<tr>
<td>Amylase</td>
<td>56.9 (49.9 – 63.9)</td>
<td>U/L</td>
</tr>
<tr>
<td>AST</td>
<td>34.9 (28.9 – 40.9)</td>
<td>U/L</td>
</tr>
<tr>
<td>Bicarbonate</td>
<td>32.9 (27.9 – 37.9)</td>
<td>mmol/L</td>
</tr>
<tr>
<td>Bilirubin, direct</td>
<td>0.70 (0.40 – 1.00)</td>
<td>mg/dL</td>
</tr>
<tr>
<td>Bilirubin, total</td>
<td>1.00 (0.80 – 1.20)</td>
<td>mg/dL</td>
</tr>
<tr>
<td>Calcium</td>
<td>12.50 (11.5 - 13.5)</td>
<td>mg/dL</td>
</tr>
<tr>
<td>Cholesterol</td>
<td>211.6 (191.6 – 231.6)</td>
<td>mg/dL</td>
</tr>
<tr>
<td>Creatine Kinase</td>
<td>175.3 (155.3 – 195.3)</td>
<td>U/L</td>
</tr>
<tr>
<td>Creatinine</td>
<td>0.80 (0.60 – 1.00)</td>
<td>mg/dL</td>
</tr>
<tr>
<td>GGT</td>
<td>13.4 (9.4 – 17.4)</td>
<td>U/L</td>
</tr>
<tr>
<td>Glucose-Hexokinase</td>
<td>252.1 (234.2 - 267.1)</td>
<td>mg/dL</td>
</tr>
<tr>
<td>Glucose-Trinder</td>
<td>249.2 (234.2 – 262.2)</td>
<td>mg/dL</td>
</tr>
<tr>
<td>HDL Cholesterol</td>
<td>73.9 (63.9 – 83.9)</td>
<td>mg/dL</td>
</tr>
<tr>
<td>Iron</td>
<td>200.5 (170.5 – 230.5)</td>
<td>µg/dL</td>
</tr>
<tr>
<td>LDH</td>
<td>201.8 (186.8 – 216.8)</td>
<td>U/L</td>
</tr>
<tr>
<td>Magnesium</td>
<td>4.66 (4.16 – 5.16)</td>
<td>mg/dL</td>
</tr>
<tr>
<td>Phosphorus</td>
<td>6.20 (5.70 – 6.70)</td>
<td>mg/dL</td>
</tr>
<tr>
<td>Total Protein</td>
<td>7.5 (6.5 – 8.5)</td>
<td>g/dL</td>
</tr>
<tr>
<td>Triglycerides</td>
<td>36 (28 – 44)</td>
<td>g/dL</td>
</tr>
<tr>
<td>Urea-N (BUN)</td>
<td>12.7 (9.7 – 15.7)</td>
<td>mg/dL</td>
</tr>
<tr>
<td>Uric Acid</td>
<td>1.04 (0.80 – 1.24)</td>
<td>mg/dL</td>
</tr>
</tbody>
</table>

* approximate value after reconstitution
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Albumin Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-25 °C until the expiration date listed on the label.
Material Safety Data Sheet

EasyQC Levels A

Date: April 14, 2008

Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: powder
Appearance: light yellow
Odor: Odorless
PH: N/A
Specific Gravity: N/A
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
Material Safety Data Sheet

EasyQC Levels A

Date: April 14, 2008

Emergency Phone 781-275-4892

**** SECTION 12 –Ecological Information ****

Data not available

**** SECTION 13 –Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:

This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES None required.

SAFETY PHRASES S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.
Material Safety Data Sheet

EasyQC Levels A

Date: April 14, 2008

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Material Safety Data Sheet

Easy QC Levels B

Date: April 14, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Easy QC, Level B
Catalog Number: 10792
Synonyms: General Chemistry Control, Level B

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Light yellow, lyophilized powder</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1% or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.
**SECTION 3 – Composition, Information on Ingredients**

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>QC Values*</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albumin</td>
<td>2.5 (2.2 - 2.8) g/dL</td>
<td></td>
</tr>
<tr>
<td>Alk. Phos.</td>
<td>353.3 (313.3 – 393.3) U/L</td>
<td></td>
</tr>
<tr>
<td>ALT</td>
<td>134.1 (119.1 – 149.1) U/L</td>
<td></td>
</tr>
<tr>
<td>Amylase</td>
<td>241.3 (221.3 – 261.3) U/L</td>
<td></td>
</tr>
<tr>
<td>AST</td>
<td>120.6 (105.6 – 135.6) U/L</td>
<td></td>
</tr>
<tr>
<td>Bicarbonate</td>
<td>17.8 (14.8 – 20.8) mmol/L</td>
<td></td>
</tr>
<tr>
<td>Bilirubin, direct</td>
<td>32.0 (2.50 – 3.90) mg/dL</td>
<td></td>
</tr>
<tr>
<td>Bilirubin, total</td>
<td>6.00 (5.20 – 6.80) mg/dL</td>
<td></td>
</tr>
<tr>
<td>Calcium</td>
<td>9.90 (9.20 -10.60) mg/dL</td>
<td></td>
</tr>
<tr>
<td>Cholesterol</td>
<td>98 (86 – 110) mg/dL</td>
<td></td>
</tr>
<tr>
<td>Creatine Kinase</td>
<td>479 (429 – 529) L U/L</td>
<td></td>
</tr>
<tr>
<td>Creatinine</td>
<td>4.6 (4.10 – 5.10) mg/dL</td>
<td></td>
</tr>
<tr>
<td>GGT</td>
<td>55 (46 – 64) U/L</td>
<td></td>
</tr>
<tr>
<td>Glucose-Hexokinase</td>
<td>95.9 (89.9-101.9) mg/dL</td>
<td></td>
</tr>
<tr>
<td>Glucose-Trinder</td>
<td>82.4 (76.4 – 88.4) mg/dL</td>
<td></td>
</tr>
<tr>
<td>HDL Cholesterol</td>
<td>29.2 (24.2 – 43.2) mg/dL</td>
<td></td>
</tr>
<tr>
<td>Iron</td>
<td>88.0 (68.0 – 108.0) µg/dL</td>
<td></td>
</tr>
<tr>
<td>LDH</td>
<td>506.5 (456.5 – 556.5) U/L</td>
<td></td>
</tr>
<tr>
<td>Magnesium</td>
<td>1.81 (1.61 – 2.01) mg/dL</td>
<td></td>
</tr>
<tr>
<td>Phosphorus</td>
<td>3.20 (2.80 – 3.60) mg/dL</td>
<td></td>
</tr>
<tr>
<td>Total Protein</td>
<td>4.7 (4.1 – 5.2) g/dL</td>
<td></td>
</tr>
<tr>
<td>Triglycerides</td>
<td>108 (93 – 123) g/dL</td>
<td></td>
</tr>
<tr>
<td>Urea-N (BUN)</td>
<td>47.5 (41.5 – 53.5) mg/dL</td>
<td></td>
</tr>
<tr>
<td>Uric Acid</td>
<td>4.75 (3.00 – 6.00) mg/dL</td>
<td></td>
</tr>
</tbody>
</table>

* approximate value after reconstitution
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Albumin Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 –Handling and Storage****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-25 °C until the expiration date listed on the label.
Material Safety Data Sheet

EasyQC Levels B

Date: April 14, 2008  Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: powder
Appearance: light yellow
Odor: Odorless
PH: N/A
Specific Gravity: N/A
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
Material Safety Data Sheet

EasyQC Levels B

Date: April 14, 2008  Emergency Phone 781-275-4892

**** SECTION 12 – Ecological Information ****
Data not available

**** SECTION 13 – Disposal Considerations ****
Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.
Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****
May be transported freely

**** SECTION 15 – Regulatory Information ****
US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
None required.

SAFETY PHRASES
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**** SECTION 16 – Additional Information ****
This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.
Material Safety Data Sheet

EasyQC Levels B

Date: April 14, 2008

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Material Safety Data Sheet

Total Bilirubin

Date: April 8, 2008 Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Total Bilirubin (two part reagent)
Catalog Number: 10207-4
Synonyms: T-BIL

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

Appearance and Odor R1: Clear, odorless solution
Appearance and Odor R2: Clear, odorless solution
Melting Point N/A
Vapor Density Not Determined
Solubility in Water Soluble in water

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Bilirubin Reagent R1:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NaCl</td>
<td>7647-14-5</td>
<td>231-598-3</td>
<td>154 mmol/L</td>
</tr>
<tr>
<td>Trade Secret</td>
<td></td>
<td></td>
<td>1.00%</td>
</tr>
<tr>
<td>HCl</td>
<td>7647-01-0</td>
<td>231-595-7</td>
<td>190 mmol/L</td>
</tr>
<tr>
<td>Surfactants and preservatives</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Bilirubin Reagent R2:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HCl</td>
<td>7647-01-0</td>
<td>231-595-7</td>
<td>135 mmol/L</td>
</tr>
<tr>
<td>2,4-dichlorophenyl diazonium salt</td>
<td></td>
<td></td>
<td>5 mmol/L</td>
</tr>
<tr>
<td>Surfactant</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Total Bilirubin Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State R1 & R2: Liquid
Appearance R1: Colorless
Appearance R1: peach colored
Odor R1 & R2: Odorless
PH R1: 0.8
PH R2: 0.9
Specific Gravity R1: 1.0157 g/mL
Specific Gravity R2: 1.004 g/mL
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported
**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available

**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

 **** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:
This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES
R20/2122 Harmful by inhalation, in contact with skin and if swallowed
R34 Causes burns

SAFETY PHRASES
S26 In case of contact with eyes, rinse immediately with plenty of water
S35 This material and its container must be disposed of in a safe way
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)
Material Safety Data Sheet

Total Bilirubin

Date: April 8, 2008

Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

TOTAL PROTEIN

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Total Protein
Catalog Number: 10213-4
Synonyms: TP

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance and Odor</td>
<td>Blue, odorless solution</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.0308</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper Sulfate, pentahydrate</td>
<td>7758-99-8</td>
<td></td>
<td>0.3 g/dL</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>215-185-5</td>
<td>0.8 g/dL</td>
</tr>
<tr>
<td>Potassium Iodide, potassium tartrate and sodium azide as</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>preservative</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Total Protein Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.
Storage: Store at 2-25 °C until the expiration date listed on the label.
Material Safety Data Sheet

TOTAL PROTEIN

Date: April 7, 2008

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Blue
Odor: Odorless
PH: 12.8
Specific Gravity: 1.0038
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
Material Safety Data Sheet

TOTAL PROTEIN

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:

This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES

R35 Causes severe burns

SAFETY PHRASES

S 26 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.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible.)

<<Insert symbol for Irritant & Toxic>>
Material Safety Data Sheet

TOTAL PROTEIN

Date: April 7, 2008  Emergency Phone 781-275-4892

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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Material Safety Data Sheet

TRIGLYCERIDE

Date: April 7, 2008

**** SECTION 1 – Product Identification ****

MSDS Name: Triglyceride
Catalog Number: 10216-4
Synonyms: TRIG

**** SECTION 2 – Hazards Identification ****

For In Vitro Diagnostic Use Only

Appearance and Odor: Light yellow, odorless solution
Flashpoint: N/A
Vapor Pressure: Not Determined
Specific Gravity: 1.0025

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1% or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buffer, containing Mg++</td>
<td>106-48-9</td>
<td>203-402-6</td>
<td>0.5 mmol/L</td>
</tr>
<tr>
<td>p-Chlorophenol</td>
<td>56-65-5</td>
<td>200-283-2</td>
<td>3.0 mmol/L</td>
</tr>
<tr>
<td>ATP</td>
<td>83-07-8</td>
<td>210-452-3</td>
<td>2.6 mmol/L</td>
</tr>
<tr>
<td>4-Aminoantipyrine</td>
<td></td>
<td></td>
<td>0.4 mmol/L</td>
</tr>
<tr>
<td>Lipoprotein lipase (Pseudomon. Sp)</td>
<td></td>
<td></td>
<td>&gt;1000 U/L</td>
</tr>
<tr>
<td>Glycerol Kinase (Cellulomon. Sp)</td>
<td></td>
<td></td>
<td>&gt; 400 U/L</td>
</tr>
<tr>
<td>G-3-P oxidase (Pediococcus sp)</td>
<td></td>
<td></td>
<td>&gt;2400 U/L</td>
</tr>
<tr>
<td>Horseradish Peroxidase</td>
<td></td>
<td></td>
<td>&gt; 540 U/L</td>
</tr>
<tr>
<td>Stabilizers and preservatives</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Triglyceride Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 – Handling and Storage ****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2-8 °C until the expiration date listed on the label.
Material Safety Data Sheet

TRIGLYCERIDE

Date: April 7, 2008  Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

Physical State: Liquid
Appearance: Light yellow
Odor: Odorless
PH: 6.8
Specific Gravity: 1.0025
Viscosity: N/A
Boiling Point: N/A
Freezing/Melting Point: N/A
Solubility: Water-soluble
Molecular Formula: Mixture
Molecular weight: N/A

**** SECTION 10 – Stability and Reactivity ****

Chemical Stability: Stable
Conditions to avoid: Data not available
Incompatibilities with other chemicals: Data not available
Hazardous Decomposition Products: Data not available
Hazardous Polymerization: Has not been reported

**** SECTION 11 – Toxicological information ****

Chronic Effects: Data not available
Other health hazards: Data not available
**Material Safety Data Sheet**

TRIGLYCERIDE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** SECTION 12 –Ecological Information ****

Data not available

**** SECTION 13 –Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:

This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES

None required

SAFETY PHRASES

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.
Material Safety Data Sheet

TRIGLYCERIDE

Date: April 7, 2008  Emergency Phone 781-275-4892

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Material Safety Data Sheet

URIC ACID

Date: April 7, 2008 Emergency Phone 781-275-4892

**** SECTION 1 – Product Identification ****

MSDS Name: Uric Acid
Catalog Number: 10208-4
Synonyms: URIC

**** SECTION 2 – Hazards Identification****

For In Vitro Diagnostic Use Only

<table>
<thead>
<tr>
<th>Appearance and Odor</th>
<th>Clear, odorless solution</th>
<th>Melting Point</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flashpoint</td>
<td>N/A</td>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not Determined</td>
<td>Solubility in Water</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.0082</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

In compliance with OSHA Hazard Communication Standard (29 CFR 1910.1200), a chemical is considered hazardous if it contains 1.0% or more of a hazardous compound or 0.1 % or more of a carcinogen. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.

**** SECTION 3 – Composition, Information on Ingredients ****

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHBS</td>
<td>54970-72-8</td>
<td>259-416-8</td>
<td>1.8 mmol/L</td>
</tr>
<tr>
<td>4-Aminoantipyrine</td>
<td>83-07-8</td>
<td>210-452-3</td>
<td>0.5 mmol/L</td>
</tr>
<tr>
<td>Horseradish Peroxidase</td>
<td></td>
<td></td>
<td>≥3500 U/L</td>
</tr>
<tr>
<td>Uricase (Candida utilis)</td>
<td></td>
<td></td>
<td>≥ 200 U/L</td>
</tr>
<tr>
<td>Stabilizers and preservatives</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**** SECTION 4 – First Aid Measures ****

Inhalation: Provide fresh air. Restore or support breathing. Keep victim warm and quiet. Get medical attention.

Eyes: Flush eyes, including under the eyelids with water for 15 minutes. Get medical attention.

Skin: Flush skin with water for 15 minutes. Wash the affected area thoroughly with soap and water. Remove any contaminated clothing. Get medical attention if irritation develops or persists.

Ingestion: Drink large quantities of water or milk. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical attention.

**** SECTION 5 – Fire fighting measures ****

General Information: Uric Acid Reagent is not flammable

**** SECTION 6 – Accidental Release Measures ****

Ventilate the area. Absorb spill with inert material (dry sand, vermiculite, absorptive pads, etc.). After absorption, put the material into a container for disposal. Wash the area after material has been removed. Dispose of the material in a way that is consistent with federal, state and local regulation.

**** SECTION 7 –Handling and Storage****

Handling: Avoid prolonged or repeated contact with skin. Do not ingest.

Storage: Store at 2- 8 °C until the expiration date listed on the label.
Material Safety Data Sheet

URIC ACID

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Emergency Phone 781-275-4892

**** SECTION 8 – Exposure Controls / Personal Protection ****

Wear suitable gloves
Avoid contact with skin and eyes
Keep unused container tightly closed

**** SECTION 9 – Physical and Chemical properties ****

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>PH</td>
<td>7.54</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.0082</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Freezing/Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water-soluble</td>
</tr>
<tr>
<td>Molecular Formula</td>
<td>Mixture</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**** SECTION 10 – Stability and Reactivity ****

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable</td>
</tr>
<tr>
<td>Conditions to avoid</td>
<td>Data not available</td>
</tr>
<tr>
<td>Incompatibilities with other chemicals</td>
<td>Data not available</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Data not available</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Has not been reported</td>
</tr>
</tbody>
</table>

**** SECTION 11 – Toxicological information ****

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Effects</td>
<td>Data not available</td>
</tr>
<tr>
<td>Other health hazards</td>
<td>Data not available</td>
</tr>
</tbody>
</table>
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**** SECTION 12 – Ecological Information ****

Data not available

**** SECTION 13 – Disposal Considerations ****

Reagent contains sodium azide as a preservative. Accumulations of azide may react with copper or lead plumbing to form explosive compounds on percussion. Flush drains with copious amounts of water to prevent build up.

Dispose of materials in a manner consistent with federal, state, and local regulations.

**** SECTION 14 – Transport Information ****

May be transported freely

**** SECTION 15 – Regulatory Information ****

US Federal Regulations:

This preparation is a component of an FDA-regulated in vitro diagnostic device. Additionally, the MSDS contains all the hazard criteria and information required by the Controlled Products Regulation (CPR).

RISK PHRASES

R36 Irritating to eyes

SAFETY PHRASES

S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advise.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
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**** SECTION 16 – Additional Information ****

This MSDS has been prepared in accordance with the ANZI Z400.1 format. Every effort has been made to adhere to the hazard criteria and content requirement of the US OSHA Communication Standard, European Communities Safety Data Sheets Directive, Canadian Controlled Products Regulations, UK Chemical Hazard Information and Packaging Regulations and UN Globally Harmonized System of Classification and Labeling of Chemicals.

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