



Medica Corporation
5 Oak Park Drive
Bedford, Massachusetts 01730
Tel 781 275 4892
Fax 781 275 2731
www.medicacorp.com

Products For Health Care

Material Safety Data Sheet

Albumin

Date: April 7, 2008

Emergency Phone 781-275-4892

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

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

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

For In Vitro Diagnostic Use Only

Appearance and Odor	Green, 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	1.0025		

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 ****

Ingredient Name	Concentration	CAS #	EINECS #
Bromocresol, green	18.8mg/dL	76-60-8	200-972-8
Citrate Buffer			
Surfactant, preservative			



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**** 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.



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**** 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



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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 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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Products For Health Care

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

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	1.0191 g/mL		
Specific Gravity R2	1.0251 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. 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 ****

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



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ALKALINE PHOSPHATASE

Date: April 7, 2008

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**** 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.



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ALKALINE PHOSPHATASE

Date: April 7, 2008

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**** 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



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**** 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.



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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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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

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	1.0222		
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 ****

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



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ALANINE AMINOTRANSFERASE

Date: April 7, 2008

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**** 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 Aminotranferase 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.



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ALANINE AMINOTRANSFERASE

Date: April 7, 2008

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**** 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



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ALANINE AMINOTRANSFERASE

Date: April 7, 2008

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**** 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.



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ALANINE AMINOTRANSFERASE

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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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Products For Health Care

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 ****

Ingredient Name	CAS #	EINECS #	Concentration
2-chloro-4-nitrophenyl- α -D-maltotrioxide, (CNPG ₃)			2.25 mmole/L
Sodium Chloride	7647-14-5	231-598-3	350 mmole/L
Calcium Acetate			6.0 mmole/L
Potassium Thiocyanate	333-20-0	247-852-1	8.7 %
Sodium Azide	26628-22-8	206-370-1	0.1%
MES Buffer (pH 6.0)			



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5 Oak Park Drive
Bedford, Massachusetts 01730
Tel 781 275 4892
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AMYLASE

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: 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.



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Bedford, Massachusetts 01730
Tel 781 275 4892
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Material Safety Data Sheet

AMYLASE

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: 6.0
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



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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 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.



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Products For Health Care

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 ****

Ingredient Name	CAS #	EINECS #	Concentration
Aspartate Aminotranferase Reagent R1:			
Tris Buffer (pH 7.50)			80 mmol/L
L-Aspartate			240 mmol/L
LDH (rabbit muscle)			600 U/L
MDH (porcine muscle)			600 U/L
Aspartate Aminotranferase Reagent R2:			
α-Ketoglutarate			12 mmol/L
NADH, disodium salt	606-68-8	210-123-3	0.18 mmol/L



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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.



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Products For Health Care

Material Safety Data Sheet

ASPARTATE AMINOTRANSFERASE

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:	7.8
PH R2:	9.6
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



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ASPARTATE 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.



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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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Products For Health Care

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	Melting Point	N/A
Flashpoint	N/A	Vapor Density	Not Determined
Vapor Pressure	Not Determined	Solubility in Water	Soluble in water
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 ****

Ingredient Name	CAS #	EINECS #	Concentration
α-Ketoglutarate			14 mM
Urease (botanical)			> 50 KU/L
GLDH (mammal)			> 12 KU/L
Adenosine diphosphate	58-64-0	200-392-5	5.0 mM
NADH analog			0.2. mM



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Material Safety Data Sheet

BLOOD UREA NITROGEN

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: 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.



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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



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Bedford, Massachusetts 01730
Tel 781 275 4892
Fax 781 275 2731
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Date: April 8, 2008

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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 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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Fax 781 275 2731
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BLOOD UREA NITROGEN

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Products For Health Care

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	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	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 ****

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



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TOTAL CALCIUM

Date: April 8, 2008

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**** 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.



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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



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TOTAL CALCIUM

Date: April 8, 2008

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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 R36/37/38 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>>



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Material Safety Data Sheet

TOTAL CALCIUM

Date: April 8, 2008

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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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Products For Health Care

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

Appearance and Odor	Light yellow, lyophilized powder	Melting Point	N/A
Flashpoint	N/A	Vapor Density	Not Determined
Vapor Pressure	Not Determined	Solubility in Water	Soluble in water
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. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.



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Material Safety Data Sheet

EasyCal

Date: April 14, 2008

Emergency Phone 781-275-4892

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

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

* approximate value after reconstitution



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Material Safety Data Sheet

EasyCal

Date: April 14, 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: 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.



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Material Safety Data Sheet

EasyCal

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



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Tel 781 275 4892
Fax 781 275 2731
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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.



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Bedford, Massachusetts 01730
Tel 781 275 4892
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EasyCal

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Products For Health Care

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

Appearance and Odor	Clear beige, 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	1.024		

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 ****

Ingredient Name	Concentration	CAS #	EINECS #
Pipes Buffer (pH 6.7)	50 mmol/L		
Phenol	24 mmol/L	108-95-2	203-632-7
Sodium Cholate	5 mmol/L	361-09-1	206-643-5
4-Aminoantipyrene	0.5 mmol/L	83-07-8	210-452-3
Cholesterol esterase	≥180 U/L		
Cholesterol oxidase	≥200 U/L	9028-76-6	232-668-6
Peroxidase	≥ 1000 U/L	0003-99-0	232-668-6



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Bedford, Massachusetts 01730
Tel 781 275 4892
Fax 781 275 2731
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Material Safety Data Sheet

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: 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.



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Tel 781 275 4892
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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



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Products For Health Care

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.



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Products For Health Care

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

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	1.0141		
Specific Gravity R1	1.0390		

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

Ingredient Name	CAS #	EINECS #	Concentration
<i>Creatine Kinase Reagent R1:</i>			
Imidazole Buffer (pH 6.7)			
D-Glucose			100 mmol/L
N-Acetyl-L-cysteine	626-91-1	210-498-3	20 mmol/L
Magnesium Acetate	16674-78-5		10.0 mmol/L
NADP	53-59-8	200-178-1	2.0 mmol/L
EDTA	60-00-4	200-449-4	2.0 mmol/L
Hexokinase (Baker's yeast)			2500 U/L
<i>Creatine Kinase Reagent R2:</i>			
Imidazole Buffer (pH 6.7)			100 mmol/L
Creatine Phosphate			30 mmol/L
ADP	58-64-0	200-392-5	2.0 mmol/L
AMP	61-19-8	200-500-0	5.0 mmol/L
Diadenosine pentaphosphate	04108-02-8	302-339-2	10.0 µmol/L
Glucose-6-PDH (Baker's yeast)			1500 U/L
EDTA	60-00-4	200-449-4	2.0 mmol/L



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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.



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Material Safety Data Sheet

Creatine Kinase

Date: April 7, 2008

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**** 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



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Tel 781 275 4892
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Material Safety Data Sheet

Creatine Kinase

Date: April 7, 2008

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**** 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.



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Creatine Kinase

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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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Products For Health Care

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	Melting Point	N/A
Flashpoint	N/A	Vapor Density	Not Determined
Vapor Pressure	Not Determined	Solubility in Water	Soluble in water
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 ****

Ingredient Name	Concentration	CAS #	EINECS #
Sodium Hypochlorite solution	1%	7681-52-9	231-668-3



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Material Safety Data Sheet

CLEANER KIT

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: 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.



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CLEANER KIT

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, 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



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CLEANER KIT

Date: April 10, 2008

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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 R36/38 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.

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CLEANER KIT

Date: April 10, 2008

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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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Products For Health Care

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

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

*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	Melting Point	N/A
Flashpoint	N/A	Solubility in Water	Soluble in water
Vapor Pressure	Not Determined		
Specific Gravity	N/A		



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Products For Health Care

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.



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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



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Cleaner Kit – Chemistry & ISE

Date: April 8, 2008

Emergency Phone 781-275-4892

**** 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



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Products For Health Care

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.



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Cleaner Kit – Chemistry & ISE

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Products For Health Care

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

Appearance and Odor	Pale 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	1.0206		

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 ****

Ingredient Name	CAS #	EINECS #	Concentration
Phosphophenolpyruvate (PEP)	138-08-9	205-312-2	≥5 mmol/L
PEPC (microbial)			≤2000 U/L
Malate dehydrogenase (EC1.1.1.37)			>1000 U/L
NADH analog			≥0.30 mmol/L



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Material Safety Data Sheet

Carbon Dioxide

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: 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.



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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 ****

Physical State: Liquid
Appearance: Light yellow
Odor: Odorless
PH: 7.6
Specific Gravity: 1.0206
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



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Products For Health Care

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.



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Tel 781 275 4892
Fax 781 275 2731
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Products For Health Care

Material Safety Data Sheet

Carbon Dioxide

Date: April 7, 2008

Emergency Phone 781-275-4892

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 5 Oak Park Drive
 Bedford, Massachusetts 01730
 Tel 781 275 4892
 Fax 781 275 2731
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Products For Health Care

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 ****

Ingredient Name	CAS #	EINECS #	Concentration
<i>Creatinine Reagent R1:</i>			
Good Buffer (pH 7.4)			25 mmol/L
Creatinine amidinohydrolase			>25 KU/L
Sarcosine oxidase			> 7 KU/L
Ascorbate oxidase			> 4 KU/L
ESPMT			140 mg/L
<i>Creatinine Reagent R2:</i>			
Good Buffer (pH 7.3)			100 mmol/L
Creatinine amidinohydrolase			>250 KU/L
Peroxidase			> 5 KU/L
4-Aminoantipyrene	83-07-8	210-452-3	600 mg/L



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**** 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.



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Bedford, Massachusetts 01730
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**** 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



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Date: April 8, 2008

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**** 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.



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Products For Health Care

Material Safety Data Sheet

CREATININE

Date: April 8, 2008

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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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Products For Health Care

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	Melting Point	N/A
Flashpoint	N/A	Vapor Density	Not Determined
Vapor Pressure	Not Determined	Solubility in Water	Soluble in water
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 ****

Ingredient Name	Concentration	CAS #	EINECS #
Creatinine	100 mg/dL	60-27-5	200-466-7
Hydrochloric Acid	0.1 N	7647-01-0	231-595-7



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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.



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Bedford, Massachusetts 01730
Tel 781 275 4892
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URINE CREATININE CALIBRATOR

Date: April 10, 2008

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**** 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



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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

R36/37/38 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.

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



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Tel 781 275 4892
Fax 781 275 2731
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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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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 ****

Ingredient Name	CAS #	EINECS #	Concentration
<i>Creatinine Reagent R1:</i>			
Good Buffer (pH 7.4)			25 mmol/L
Creatinine amidinohydrolase			>25 KU/L
Sarcosine oxidase			> 7 KU/L
Ascorbate oxidase			> 4 KU/L
ESPMT			140 mg/L
<i>Creatinine Reagent R2:</i>			
Good Buffer (pH 7.3)			100 mmol/L
Creatinine amidinohydrolase			>250 KU/L
Peroxidase			> 5 KU/L
4-Aminoantipyrene	83-07-8	210-452-3	600 mg/L



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Bedford, Massachusetts 01730
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URINE CREATININE

Date: April 10, 2008

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**** 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.



Medica Corporation
5 Oak Park Drive
Bedford, Massachusetts 01730
Tel 781 275 4892
Fax 781 275 2731
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URINE CREATININE

Date: April 10, 2008

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**** 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



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URINE CREATININE

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**** 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.



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5 Oak Park Drive
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Tel 781 275 4892
Fax 781 275 2731
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URINE CREATININE

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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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Products For Health Care

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

Appearance and Odor R1:	Clear, odorless solution	Melting Point	N/A
Appearance and Odor R2:	Clear, slightly acidic odor	Vapor Density	Not Determined
Flashpoint	N/A	Solubility in Water	Soluble in water
Vapor Pressure	Not Determined		
Specific Gravity R1	1.0126 g/mL		
Specific Gravity R2	1.0173 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.

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

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



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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.



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Material Safety Data Sheet

Direct Bilirubin

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:	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



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Direct Bilirubin

Date: April 8, 2008

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**** 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)

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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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Tel 781 275 4892
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Products For Health Care

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	Melting Point	N/A
Appearance and Odor R2:	Clear, dark orange, odorless solution	Vapor Density	Not Determined
Flashpoint	N/A	Solubility in Water	Soluble in water
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 ****

Ingredient Name	Concentration	CAS #	EINECS #
<i>Test Dye R1:</i>			
Potassium Dichromate	10 mmol/L	7778-50-9	231-906-6
Sulfuric Acid	0.01 N	7664-93-9	231-639-5
<i>Test Dye R2:</i>			
Potassium Dichromate	100 mmol	7778-50-9	231-906-6
Sulfuric Acid	0.01 N	7664-93-9	231-639-5



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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.



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**** 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



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Bedford, Massachusetts 01730
Tel 781 275 4892
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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

R36/38 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>>



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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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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

Appearance and Odor R1:	Clear, solution with mild vinegar odor	Melting Point	N/A
Appearance and Odor R2:	Clear yellow, odorless solution		
Flashpoint	N/A	Vapor Density	Not Determined
Vapor Pressure	Not Determined	Solubility in Water	Soluble in water
Specific Gravity R1	1.024 g/mL		
Specific Gravity R2	1.018 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 ****

Ingredient Name	Concentration	CAS #	EINECS #
<i>Iron Reagent R1:</i>			
Acetate Buffer (pH4.5)			
Ascorbic Acid	0.669%	50-81-7	200-066-2
<i>Iron Reagent R2:</i>			
Ferene®	0.49 %		



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**** 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.



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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



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**** 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>>



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IRON

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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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Products For Health Care

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	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	1.0141 g/mL		
Specific Gravity R2	1.0063 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.

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

Ingredient Name	CAS #	EINECS #	Concentration
<i>GGT Reagent R1:</i>			
L-Glycylglycine	556-50-3	209-127-8	100 mmol/L
Buffer (pH 8.3) and preservative			
<i>GGT Reagent R2:</i>			
L-γ-glutamyl-3-carboxy-4-nitroanilide			4 mmol/L



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GAMMA-GLUTAMYL TRANSFERASE

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: 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.



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GAMMA-GLUTAMYL TRANSFERASE

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: 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



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GAMMA-GLUTAMYL TRANSFERASE

Date: April 8, 2008

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**** 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.



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GAMMA-GLUTAMYL TRANSFERASE

Date: April 8, 2008

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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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Products For Health Care

Material Safety Data Sheet

GLUCOSE, HEXOKINASE

Date: April 7, 2008

Emergency Phone 781-275-4892

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

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

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

For In Vitro Diagnostic Use Only

Appearance and Odor	Clear, 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	1.0167		

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 ****

Ingredient Name	CAS #	EINECS #	Concentration
NAD	53-84-9	200-184-4	2 mmol/L
Adenosine Triphosphate	56-65-5	200-283-2	4 mmol/L
Magnesium Salt			2 mmol/L
Hexokinase			>2000 U/L
Glucose-6-phosphate dehydrogenase (G-6-PD) (Leuconostoc mesenteroids)			>4000 U/L



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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.



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GLUCOSE, HEXOKINASE

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: 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



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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.



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Bedford, Massachusetts 01730
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Fax 781 275 2731
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GLUCOSE, HEXOKINASE

Date: April 7, 2008

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Products For Health Care

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 ****

Ingredient Name	Concentration	CAS #	EINECS #
Phosphate Buffer	13.8 mmol/L		
Phenol	10 mmol/L	108-95-2	203-632-7
4-Aminoantipyrene	0.3 mmol/L	83-07-8	210-452-3
Glucose oxidase	≥10,000 U/L		
Peroxidase	≥ 700 U/L		



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Bedford, Massachusetts 01730
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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.



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Products For Health Care

Material Safety Data Sheet

GLUCOSE-TRINDER

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: 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



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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 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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Products For Health Care

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

Appearance and Odor R1:	Lt. yellow, clear, odorless solution	Melting Point	N/A
Appearance and Odor R2:	Lt. brown, clear, odorless solution	Vapor Density	Not Determined
Flashpoint	N/A	Solubility in Water	Soluble in water
Vapor Pressure	Not Determined		
Specific Gravity R1	1.014 g/mL		
Specific Gravity R2	1.003 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 ****

Ingredient Name	CAS #	EINECS #	Concentration %(wt/wt)
<i>HDL Reagent R1:</i>			
Good Buffer			1-2
Ascorbate oxidase	9029-44-1	232-852-6	2-3
Cholesterol oxidase	9028-76-6	232-842-1	< 1
Peroxidase (horseradish)	9003-99-0	232-668-6	< 1
N,N-bis(4-Sulphobutyl)-m-toluidene, disodium salt	not assigned	not assigned	< 0. 1
Proprietary preservative and non-ionic detergent			< 1
<i>HDL Reagent R2:</i>			
Good Buffer			1-2
Cholesterol esterase (pseudomonas sp)	9026-00-0	232-808-6	1-2
4-Aminoantopyrene	83-07-8	210-452-3	< 0.1
Proprietary preservative and non-ionic detergent			1-2



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HDL CHOLESTEROL

Date: April 10, 2008

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**** 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.



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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



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**** 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).



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HDL CHOLESTEROL

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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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Products For Health Care

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 ****

Ingredient Name	Concentration	CAS #	EINECS #
<i>Lactate Dehydrogenase Reagent R1:</i>			
Lithium L-Lactate	100 mmol/L	27848-80-2	248-692-5
2-Methyl-2-amino-1-propanol (pH 8.6)	600 mmol/l	124-68-5	204-709-8
<i>Lactate Dehydrogenase Reagent R2:</i>			
NAD	6 mmol/L	53-84-9	200-184-4



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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.



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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



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LACTATE DEHYDROGENASE

Date: April 7, 2008

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**** 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.



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Tel 781 275 4892
Fax 781 275 2731
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LACTATE DEHYDROGENASE

Date: April 7, 2008

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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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Products For Health Care

Material Safety Data Sheet

Magnesium

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 ****

Ingredient Name	CAS #	EINECS #	Concentration
<i>Magnesium Reagent R1:</i>			
Buffer (pH 11.2) Trishydroxymethylamino methane			
Xylidyl Blue-1	14936-97-1	239-012-8	0.14 mmol/L
EGTA [ethylenebis(oxyethylenenitrilo)tetraacetic acid]	67-42-5	200-651-2	0.1 mmol/L
Surfactant (Triton X-100) and preservatives			
<i>Magnesium Reagent R2 (cleaner):</i>			
Hydrochloric acid	7647-01-0	231-595-7	25 mmol/L
Surfactant			



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Magnesium

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: 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.



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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



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Tel 781 275 4892
Fax 781 275 2731
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Products For Health Care

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>>



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Magnesium

Date: April 8, 2008

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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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Products For Health Care

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

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	1.0133 g/mL		
Specific Gravity R2	1.0139 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.

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

Ingredient Name	Concentration	CAS #	EINEC #
<i>Phosphorous Reagent R1:</i>			
Sulphuric acid	1.667%	7664-93-9	231-639-5
Surfactant			
<i>Phosphorous Reagent R2:</i>			
Ammonium Molybdate	2.8 mmol/L	12054-85-2	
Sulphuric Acid	0.055%	7664-93-9	231-639-5



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Phosphorous

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: 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.



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Products For Health Care

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



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Products For Health Care

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>>



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Products For Health Care

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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Products For Health Care

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

Appearance and Odor	Light yellow, lyophilized powder	Melting Point	N/A
Flashpoint	N/A	Vapor Density	Not Determined
Vapor Pressure	Not Determined	Solubility in Water	Soluble in water
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. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.



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Products For Health Care

Material Safety Data Sheet

EasyQC Levels A

Date: April 14, 2008

Emergency Phone 781-275-4892

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

Ingredient Name	QC Values*	Units
Albumin	4.4 (3.9 – 4.9)	g/dL
Alk. Phos.	87.6 (75.6 – 99.6)	U/L
ALT	47.0 (40.0 – 54.0)	U/L
Amylase	56.9 (49.9 – 63.9)	U/L
AST	34.9 (28.9 – 40.9)	U/L
Bicarbonate	32.9 (27.9 – 37.9)	mmol/L
Bilirubin, direct	0.70 (0.40 – 1.00)	mg/dL
Bilirubin, total	1.00 (0.80 – 1.20)	mg/dL
Calcium	12.50 (11.5 – 13.5)	mg/dL
Cholesterol	211.6 (191.6 – 231.6)	mg/dL
Creatine Kinase	175.3 (155.3 – 195.3)	U/L
Creatinine	0.80 (0.60 – 1.00)	mg/dL
GGT	13.4 (9.4 – 17.4)	U/L
Glucose-Hexokinase	252.1 (234.2 – 267.1)	mg/dL
Glucose-Trinder	249.2 (234.2 – 262.2)	mg/dL
HDL Cholesterol	73.9 (63.9 – 83.9)	mg/dL
Iron	200.5 (170.5 – 230.5)	µg/dL
LDH	201.8 (186.8 – 216.8)	U/L
Magnesium	4.66 (4.16 – 5.16)	mg/dL
Phosphorus	6.20 (5.70 – 6.70)	mg/dL
Total Protein	7.5 (6.5 – 8.5)	g/dL
Triglycerides	36 (28 – 44)	g/dL
Urea-N (BUN)	12.7 (9.7 – 15.7)	mg/dL
Uric Acid	1.04 (0.80 – 1.24)	mg/dL

* approximate value after reconstitution



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Material Safety Data Sheet

EasyQC Levels A

Date: April 14, 2008

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**** 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.



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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



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EasyQC Levels A

Date: April 14, 2008

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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 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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EasyQC Levels A

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Products For Health Care

Material Safety Data Sheet

EasyQC 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

Appearance and Odor	Light yellow, lyophilized powder	Melting Point	N/A
Flashpoint	N/A	Vapor Density	Not Determined
Vapor Pressure	Not Determined	Solubility in Water	Soluble in water
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. The product does NOT contain hazardous material(s) in excess of these amounts. Therefore, no MSDS is required under the standard.



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Products For Health Care

Material Safety Data Sheet

EasyQC Levels B

Date: April 14, 2008

Emergency Phone 781-275-4892

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

Ingredient Name	QC Values*	Units
Albumin	2.5 (2.2 -2.8)	g/dL
Alk. Phos.	353.3 (313.3 – 393.3)	U/L
ALT	134.1 (119.1 – 149.1)	U/L
Amylase	241.3 (221.3 – 261.3)	U/L
AST	120.6 (105.6 – 135.6)	U/L
Bicarbonate	17.8 (14.8 – 20.8)	mmol/L
Bilirubin, direct	32.0 (2.50 – 3.90)	mg/dL
Bilirubin, total	6.00 (5.20 – 6.80)	mg/dL
Calcium	9.90 (9.20 -10.60)	mg/dL
Cholesterol	98 (86 – 110)	mg/dL
Creatine Kinase	479 (429 – 529) L	U/L
Creatinine	4.6 (4.10 – 5.10)	mg/dL
GGT	55 (46 – 64)	U/L
Glucose-Hexokinase	95.9 (89.9-101.9)	mg/dL
Glucose-Trinder	82.4 (76.4 – 88.4)	mg/dL
HDL Cholesterol	29.2 (24.2 – 43.2)	mg/dL
Iron	88.0 (68.0 – 108.0)	µg/dL
LDH	506.5 (456.5 – 556.5)	U/L
Magnesium	1.81 (1.61 – 2.01)	mg/dL
Phosphorus	3.20 (2.80 – 3.60)	mg/dL
Total Protein	4.7 (4.1 – 5.2)	g/dL
Triglycerides	108 (93 – 123)	g/dL
Urea-N (BUN)	47.5 (41.5 – 53.5)	mg/dL
Uric Acid	4.75 (3.00 – 6.00)	mg/dL

* approximate value after reconstitution



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**** 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.



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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



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EasyQC Levels B

Date: April 14, 2008

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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 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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Products For Health Care

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	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	1.0157 g/mL		
Specific Gravity R2	1.004 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 ****

Ingredient Name	CAS #	EINECS #	Concentration
<i>Total Bilirubin Reagent R1:</i>			
NaCl	7647-14-5	231-598-3	154 mmol/L
Trade Secret			1.00%
HCl	7647-01-0	231-595-7	190 mmol/L
Surfactants and preservatives			
<i>Total Bilirubin Reagent R2:</i>			
HCl	7647-01-0	231-595-7	135 mmol/L
2,4-dichlorophenyldiazonium salt			5 mmol/L
Surfactant			



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Material Safety Data Sheet

Total 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: 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.



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Material Safety Data Sheet

Total Bilirubin

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 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



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Products For Health Care

Material Safety Data Sheet

Total 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 R20/2122 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)

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Material Safety Data Sheet

Total Bilirubin

Date: April 8, 2008

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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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Products For Health Care

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

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	1.0308		

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 ****

Ingredient Name	CAS #	EINECS #	Concentration
Copper Sulfate, pentahydrate	7758-99-8		0.3 g/dL
Sodium Hydroxide	1310-73-2	215-185-5	0.8 g/dL
Potassium Iodide, potassium tartrate and sodium azide as preservative			



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Products For Health Care

Material Safety Data Sheet

TOTAL PROTEIN

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: 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.



Medica Corporation
5 Oak Park Drive
Bedford, Massachusetts 01730
Tel 781 275 4892
Fax 781 275 2731
www.medicacorp.com

Products For Health Care

Material Safety Data Sheet

TOTAL PROTEIN

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: 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



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Bedford, Massachusetts 01730
Tel 781 275 4892
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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 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>>



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Bedford, Massachusetts 01730
Tel 781 275 4892
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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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Tel 781 275 4892
Fax 781 275 2731
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Products For Health Care

Material Safety Data Sheet

TRIGLYCERIDE

Date: April 7, 2008

Emergency Phone 781-275-4892

**** 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	Melting Point	N/A
Flashpoint	N/A	Vapor Density	Not Determined
Vapor Pressure	Not Determined	Solubility in Water	Soluble
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 ****

Ingredient Name	CAS #	EINECS #	Concentration
Buffer, containing Mg ⁺⁺			0.5 mmol/L
p-Chlorophenol	106-48-9	203-402-6	3.0 mmol/L
ATP	56-65-5	200-283-2	2.6 mmol/L
4-Aminoantipyrene	83-07-8	210-452-3	0.4 mmol/L
Lipoprotein lipase (Pseudomon. Sp)			>1000 U/L
Glycerol Kinase (Cellulomon. Sp)			> 400 U/L
G-3-P oxidase (Pediococcus sp)			>2400 U/L
Horseradish Peroxidase			> 540 U/L
Stabilizers and preservatives			



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Bedford, Massachusetts 01730
Tel 781 275 4892
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TRIGLYCERIDE

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: 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.



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5 Oak Park Drive
Bedford, Massachusetts 01730
Tel 781 275 4892
Fax 781 275 2731
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Date: April 7, 2008

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**** 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



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5 Oak Park Drive
Bedford, Massachusetts 01730
Tel 781 275 4892
Fax 781 275 2731
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Date: April 7, 2008

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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 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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5 Oak Park Drive
Bedford, Massachusetts 01730
Tel 781 275 4892
Fax 781 275 2731
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Products For Health Care

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

Appearance and Odor	Clear, 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	1.0082		

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 ****

Ingredient Name	CAS #	EINECS #	Concentration
DHBS	54970-72-8	259-416-8	1.8 mmol/L
4-Aminoantipyrene	83-07-8	210-452-3	0.5 mmol/L
Horseradish Peroxidase			≥3500 U/L
Uricase (Candida utilis)			≥ 200 U/L
Stabilizers and preservatives			



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Bedford, Massachusetts 01730
Tel 781 275 4892
Fax 781 275 2731
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URIC ACID

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: 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.



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Bedford, Massachusetts 01730
Tel 781 275 4892
Fax 781 275 2731
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URIC ACID

Date: April 7, 2008

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**** 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: 7.54
Specific Gravity: 1.0082
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



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Bedford, Massachusetts 01730
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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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Tel 781 275 4892
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**** SECTION 16 – Additional Information ****

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