

## MATERIAL SAFETY DATA SHEET

| <b>I. PRODUCT AND COMPANY IDENTIFICATION</b> |   |
|--|---|
| Trade Name                                   | SP-MULTICAL   |
| Catalogue Number                             | 328 001<br>328 002  |
| Description/Intended use                     | Multiparameter calibration serum for the standardization of quantitative tests on clinical chemical analytes.   |
| Name of the Company with Address and Tel No. | Egyptian Company for Biotechnology (S.A.E)<br>Obour city industrial area. Block 20008 pieces 19 A. Cairo. Egypt.<br>Phone: +2 02 4489 2248 Fax: +2 02 4489 2247<br>www.spectrum-diagnostics.com<br>E-mail:info@spectrum-diagnostics.com |

| <b>II. COMPOSITION/HAZARDOUS COMPONENTS</b> |  |
|---|--|
| Lyophilized Calibration serum               |  |

| <b>III. HAZARD IDENTIFICATION</b> |  |
|-----------------------------------|--|
| Primary routes of entry           | Inhalation, ingestion and/or eye contact   |
| Inhalation                        | Inhalation of vapours, mists or sprays of these components may irritate the nose, throat and lungs.                                      |
| Ingestion                         | Ingestion of this product especially in large quantities may cause gastric distress. Symptoms may include nausea, vomiting or diarrhoea. |
| Eye contact                       | Contact with eyes may develop mild irritation.   |

| <b>IV. FIRST AID MEASURES</b> |   |
|-------------------------------|---|
| Inhalation                    | Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.   |
| Ingestion                     | Get medical attention if there has been ingestion of this product.  |
| Eye/Skin contact:             | Immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes. Assure adequate flushing of the eyes by separating the eyelids with fingers. |

| <b>V. FIRE FIGHTING MEASURES</b> |  |
|----------------------------------|--|
| Extinguishing media              | Carbon dioxide, dry chemical powder or polymer foam.   |
| Firefighting procedures          | Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes. |

| <b>VI. ACCIDENTAL RELEASE MEASURES</b>  |  |
|---|--|
| Use an absorbent material to contain or pick up the spilled solution. Place the spill residue in a container, seal label and hold for disposal. Use laboratory gloves, chemical resistant aprons, boots, and splash goggles for safety. |  |

| <b>VII. HANDLING AND STORAGE</b>  |  |
|---|--|
| When used in accordance with the Principles of Good Laboratory Practice, Good Standards of Occupational Hygiene and the instructions stated in the product insert, these products are not considered to present a hazard to health. Store between 2 to 8° C. For In vitro Diagnostic use only. Not for medicinal use. |  |

**VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

|                            |   |
|----------------------------|---|
| Ventillation data          | Local exhaust ventilation is generally preferred to control emissions of the contaminant at its source. |
| Respiratory protection     | Not required under normal use of this product.  |
| Other protective equipment | Wear appropriate gloves and body apparatus and masks to prevent skin and eye contact.                   |

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

|                              |                |
|------------------------------|----------------|
| Appearance                   | Lyophilized    |
| Odour                        | None known     |
| Solubility in water          | Soluble        |
| Melting point                | Not applicable |
| Flash point                  | Not applicable |
| Flammable limits (LEL & UEL) | Not applicable |

**X. STABILITY AND REACTIVITY**

|                                  |  |
|----------------------------------|--|
| Materials to avoid               | Strong bases, strong acids and water reactive materials              |
| Hazardous decomposition products | Thermal decomposition may produce carbon monoxide and carbon dioxide |

**XI. TOXICOLOGICAL INFORMATION**

|                 |  |
|-----------------|--|
| Organ effects   | Eyes (redness), Central Nervous System(nausea/vomitting), cardiovascular systems(fall in blood pressure, change in heart rate), Digestive(nausea/vomitting/diarrhoea). |
| Carcinogenicity | No   |

**XII. ECOLOGICAL INFORMATION**

|   |                |
|---|----------------|
| Environmental fate/stability, effect on plants, animals or aquatic life | Not applicable |
|---|----------------|

**XIII. DISPOSAL CONSIDERATIONS**

|                       |   |
|-----------------------|---|
| Waste disposal method | Remains of samples, reagents and controls should be collected in a recipient for this purpose and autoclaved for 1 hour at 121°C. |
| Liquid disposal       | Flush drains with excess water thoroughly after disposing of liquid.  |

**XIV. TRANSPORT INFORMATION**

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|---|
| Not regulated under transport regulations |
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**XV. REGULATORY INFORMATION**

|                |
|----------------|
| Not applicable |
|----------------|

**XVI. OTHER INFORMATION**

|                |
|----------------|
| Not applicable |
|----------------|

The above information is believed to be correct, but does not purport to be all inclusive and should be used only as a guide. The manufacturer shall not be held responsible for any damage resulting from handling or use of the product.

**XVII. Shipping instructions**

**UN Number:** None allocated.

**Proper Shipping Name:** None allocated.

**Dangerous Goods Class:** None allocated.

**Subsidiary risk:** None allocated.

**Packing Group:** None allocated.

**Hazchem Code:** None allocated.

**Road and Rail Transport:**

Not classified as a Dangerous Good according to the United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the Classification and Labeling of Chemicals.

**Air Transport:**

Not classified as a Dangerous Good according to the International Civil Aviation Organization (ICAO) and International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

**Marine Transport:**

Not classified as a Dangerous Good according to the International Maritime Organization Rules (Maritime Dangerous Goods Code - IMDG Code) for transport by sea.

**XVIII. Approved disposal agent**

Refer to appropriate authority in your State. Normally suitable for disposal by approved waste disposal agent.

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