

MATERIAL SAFETY DATA SHEET

I. PRODUCT AND COMPANY IDENTIFICATION	
Trade Name	ANTI-HUMAN GLOBULIN SERUM (COOMBS)
Catalogue Number	819 001 819 002
Description/Intended use	Spectrum Diagnostics Anti Human Globulin reagent is intended for the in-vitro detection of antibody coating on human erythrocytes.
Name of the Company with Address and Tel No.	Egyptian Company for Biotechnology (S.A.E) Obour city industrial area. Block 20008 pieces 19 A. Cairo. Egypt. Phone: +2 02 4489 2248 Fax: +2 02 4489 2247 www.spectrum-diagnostics.com E-mail:info@spectrum-diagnostics.com

II. COMPOSITION/HAZARDOUS COMPONENTS			
Item:	Percent	CAS No.	Threshold Limit Value(units)
Reagent	0.1% Sodium Azide	26628-22-8	OSHA PEL 0.3 mg/cubic meter CL

III. HAZARD IDENTIFICATION	
Primary routes of entry	Inhalation, ingestion, skin 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.
Skin contact	Contact with skin may develop mild irritation. Sodium azide may enter body through skin.
Eye contact	Contact with eyes may develop mild irritation.

IV. FIRST AID MEASURES	
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.

V. FIRE FIGHTING MEASURES	
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.

VI. ACCIDENTAL RELEASE MEASURES	
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.	

VII. HANDLING AND STORAGE	
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	Green colour clear liquid
Odour	None known
Vapour density (sodium azide)	2.2
Specific gravity (sodium azide)	1.850
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
Conditions to avoid	Avoid acidification of solution.

XI. TOXICOLOGICAL INFORMATION

Toxicity data	Sodium Azide (Undiluted): LD50 (rat and mouse, oral)=27mg/kg; LD50 (rabbit, skin)=20mg/kg.
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
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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

Not regulated under transport regulations

XV. REGULATORY INFORMATION

Not applicable

XVI. OTHER INFORMATION

Not applicable

The above information is believed to be correct , but does not purpose 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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