

Material Safety Data Sheet

Direct Serum Total Iron Binding Capacity (TIBC)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Direct Serum Total Iron Binding Capacity (TIBC)

Catalog Numbers: 270 001

Use: Spectrum Diagnostics total iron binding capacity (TIBC) reagent is intended for the in-vitro quantitative, diagnostic determination of total iron binding capacity in human serum.

Contact Point

Egypt

Egyptian Company for Biotechnology (S.A.E.)

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2. HAZARD IDENTIFICATION

Not classified as hazardous according to the EU criteria

Hazard Classification: NON-HAZARDOUS SUBSTANCE, NON DANGEROUS GOODS.

Hazard Category: None allocated.

RISK PHRASES: None allocated.

SAFETY PHRASES: None allocated.

Poison Schedule: None allocated

3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
Reagent 1 (R1)		
Acetate Buffer pH 4.8	0.4 mol/L	5204-74-0
Chromazurol B	300 µmol/L	1796-92-5
Reagent 2 (R2)		
MOPs buffer pH 8.0	100 mmol/L	1132-61-2

All ingredients determined not to be hazardous according to the EU criteria.

4.FIRST AID MEASURES

Swallowed:

If swallowed, **DO NOT** induce vomiting. If conscious, give 1 to 2 glasses of water to drink. Seek immediate medical assistance.

Eye:

If material is splashed into eyes, immediately, flush with plenty of water for 15 minutes, ensuring eye lids are held open. If irritation persists transport to hospital or doctor.

Skin:

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with soap and water.

If irritation persists transport to hospital or doctor.

Inhaled:

Move victim to fresh air. Apply resuscitation if victim is not breathing.

First Aid Facilities:

Eye wash fountain, safety shower and normal wash room facilities.

Advice to Doctor:

Treat symptomatically.

5.FIRE-FIGHTING MEASURES

Fire/Explosion Hazard

If safe to do so, move undamaged containers from fire area.

Hazardous Decomposition Products: Decomposes on heating emitting oxides of carbon, oxides of nitrogen and noxious smoke.

Fire Fighting Procedures: Fire fighters to wear Self-contained breathing apparatus (SCBA) in confined spaces, in oxygen deficient atmospheres or if exposed to products of decomposition. Full protective clothing is also recommended.

Extinguishing Media: Use extinguishing media suitable for surrounding fire situation.

Flammability

This material is not a flammable or combustible liquid.

6.ACCIDENTAL RELEASE MEASURES

Caution! Material may be slippery when spilt. Walk cautiously. Ventilate area. Wear protective equipment to prevent skin and eye contact, as outlined under personal protection in this MSDS. Bund area using vermiculite - to prevent run off into drains and waterways. Throw additional absorbent (vermiculite or other inert material) and place on top of spill, then shovel up and seal in properly labeled containers for disposal.

7. HANDLING AND STORAGE

Store in a cool place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidizing agents. Keep containers closed, when not using the product. Store at 2-8°C and the reagent will be stable until the expiry date stated on the bottle and kit box labels. Store in original packages as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards

No exposure standards have been assigned by the National Occupational Health & Safety Commission (NOHSC) for this product or any of the components:

Engineering Controls

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate.

Personal Protection Equipment:

GLOVES: If the skin is likely to be exposed to this product, then the use of nitrile or neoprene gloves are recommended.

EYES: Chemical goggles or safety spectacles with side shields to protect eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

	Reagent 1 (R1)	Reagent 2 (R2)
Appearance	Dark purple	Colorless liquid
Solubility in water	Completely miscible	Completely miscible

10. STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal conditions of use.

HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposes on heating emitting oxides of carbon, oxides of nitrogen and noxious smoke.

INCOMPATIBILITIES:

Strong alkalis and oxidizing agents.

CONDITIONS TO AVOID:

High temperatures and incompatibles.

11. TOXICOLOGICAL INFORMATION

There is no toxicological information available for this product

ACUTE HEALTH EFFECTS

Swallowed:

May cause irritation to mouth, throat and stomach with effects including pains in the stomach, which may lead to nausea, vomiting and diarrhea.

Eye:

May cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.

Skin:

Will cause irritation to the skin, with effects including; Redness, itchiness, and swelling.

Inhaled:

Mists from the product may cause irritation to the nose, throat and respiratory system with effects including: Cough, discomfort, difficulty breathing and shortness of breath.

Chronic:

Prolonged or repeated contact with this substance will cause sensitization by skin contact.

12.ECOLOGICAL INFORMATION

There is no ecological information available for this product, however, hydroxyamine hydrochloride is considered to be very toxic to aquatic organisms. If large quantities enter drains, sewers or waterways, immediately contact the Environmental Protection Agency.

13.DISPOSAL CONSIDERATIONS

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

14.TRANSPORT INFORMATION

UN Number: None allocated

Proper Shipping Name: None allocated

Dangerous Goods Class: None allocated

Subsidiary risk: None allocated

Packing Group: 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 labelling 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.

15. OTHER INFORMATION

Principal References

Information supplied by manufacturer, reference sources including the public domain.

Disclaimer

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

Our responsibility for products sold is subject to our standard terms and conditions which are available on request.

END OF MSDS