	File Title: Product File.	Document Title: Material Safety Data Sheet.	Date Issued 03.11.2019
	Item Title: TIBC (Total Iron Binding Capacity)	Item Code: 8.05.35.0.xxxx	Issue Level: 1.1


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Amendment Record

Issue Level	Date Issued	Summary of Amendment	Reviewed by
1.1	03.11.2019	Change address from UK to German address	Sondos Shalabi

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2. General Information.

Trade Names & Synonyms:	Total Iron Binding Capacity
Chemical Family:	In Vitro Diagnostic Test kit (Clinical Chemistry).
Manufacturer:	Atlas Medical.
Manufacturer's address:	Atlas Medical UG , Ludwig-Erhaed-Ring 3 15827 Blankenefelde-Mahlow Germany.
Manufacturer's phone:	+49(0)33708355030
Email:	info@atlas-medical.com

3. Composition, Information on Active Ingredients.

ACTIVE INGREDIENTS:

1. Iron buffer reagent (220 mM Hydroxylamine hydrochloride, pH 4.5)
2. UIBC buffer reagent (0.5 M, pH 8.0)
3. Iron color reagent (16.6 mM)
4. Iron standard (500 µg/dl)

4. Hazard Information.

All components below hazardous reportable levels
These products are for in vitro diagnostic use only.
Specimen material may contain pathogenic organisms. Handle with the appropriate precautions, according to good laboratory practices.
Avoid contact with eyes.

5. Fire & Explosion Hazard Data.

Extinguishing media: Not combustible. Suitable extinguishing media for the surrounding fire should be used.

Exposure hazards: None in small quantities.


Flash Point: NA

Explosion Limits: NA

6. Accidental release measures.

6.1 FIRST-AID MEASURES

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- **Ingestion:** May be harmful if swallowed. If ingested, seek medical advice.
- **Inhalation exposure:** May cause irritation. If inhaled, remove to fresh air. If not breathing give artificial respiration but NOT by mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. Call a physician.
- **Contact with skin:** May cause irritation. Wash skin with soap and water.
- **Contact with eyes:** May cause irritation. Flush with water.
- **Sensitization:** Might cause sensitization by inhalation or skin contact.
- **Environmental exposure:** Might cause adverse effects for the environment.

6.2 ACCIDENTAL RELEASE MEASURES:

Personal precautions: Wear appropriate protective clothing. Refer to section 8 of MSDS for personal protection details.

Environmental precautions: Properly disinfect any spills. Do not discharge into drains or rivers.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labeled salvage container for disposal by an appropriate method.

7. Handling and Storage.

Handling requirements: Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Avoid inhalation or ingestion. Do not pipette by mouth. Wash thoroughly after handling.

Storage conditions: Store in cool, well-ventilated area as per kit instructions. Keep container tightly closed.

8. Exposure control and personal gear.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective disposable gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

9. Physical and chemical properties.

State: Reagent R1, R2, R3, Standard: Liquid

Color: Colorless liquid.


Odor: No significant odor.

pH: See Section 3.

Boiling point: NA.

Solubility in water: NA.

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Specific Gravity: NA.

10. Stability and Reactivity Data.

Stability: Stable under normal storage and handling conditions. Do not use after expiry date.

Materials to avoid: Strong oxidizing agents. Strong acids.

Hazardous decomposition products: Carbon monoxide.

11. Toxicological information.

Hazardous ingredients: Toxicological data for the reagent mixture is not available.

Routes of exposure: Refer to section 6 of MSDS for routes of exposure and corresponding symptoms.

12. Ecological information.

Mobility: Readily absorbed into soil.

Persistence and degradability: No data available.

Bio-accumulative potential: No data available.

Other adverse effects: Water pollution hazard rating: 1.

13. Waste disposal information.

Dispose of in accordance with current regional or national regulations.

14. Transport information.

ADR / RID

UN no: - Not applicable.

Shipping name: Not classified as dangerous in the meaning of transport regulations.

IMDG / IMO

UN no: - Marine pollutant: NO

IATA / ICAO

UN no: - Not applicable.


15. Regulatory information.

Safety phrases:

S29/35: Do not empty into drains; dispose of this material and its container in a safe way.

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

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S46: If swallowed, seek medical advice immediately and show this container or label.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions that complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Other information.

The product is for in-vitro use only.

17. Disclaimer.

The information above is believed to be accurate represents the best information currently available to us.

However we make no warranty of merchantability or any other warranty expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purpose. In no way shall the company be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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