 Atlas Medical	File Title: Product File.	Document Title: Material Safety Data Sheet.	Date Issued 03.11.2019
	Item Title: Bilirubin Direct (DMSO Method),	Item Code: 8.05.06.x.xxxx	Issue Level: 1.2


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Amendment Record

Issue Level	Date Issued	Summary of Amendment	Reviewed by
1.1	05.04.2018	General Review	Sondos Shalabi
1.2	03.11.2019	Change address from UK to German address	Sondos Shalabi

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2. General Information.

Trade Names & Synonyms: Bilirubin Direct (DMSO Method).

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:

Contains no hazardous substances in reportable quantities.

4. Hazard Information.

Causes severe burns.

5. Fire & Explosion Hazard Data.

Keep away from sources of ignition.

Extinguishing Media: Water

Special risks: Incombustible. Upon contact with metals, hydrogen gas may form (there is risk of explosion).

6. Accidental release measures.

7.1 FIRST-AID MEASURES

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower eyelids. Seek immediate medical advice.

Skin: Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing.


Get medical aid if irritation develops or persists.

Ingestion: Drink large amounts of water. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately.

Notes to Physician: Treat symptomatically and supportively.

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7.2 ACCIDENTAL RELEASE MEASURES

After spillage: Avoid contact with the skin, eyes and clothing. Do not inhale aerosols. Use proper personal protective equipment.

7. Handling and Storage.

Handling: No special indications.

Storage: Store in a cool, dry, well-ventilated place in the original container and protect from sunlight. Keep container closed when not in use.

8. Exposure control and personal gear.

Exposure limit control: VLA-ED: 7.6 mg/m³, VLA-EC:b15 mg/m³ (hydrochloric acid)

Respiratory protection: If vapours/aerosols formation occurs. Always use a European Standard EN 149 approved respirator when necessary.

Hand protection: Wear appropriate protective gloves to prevent skin exposure.

Eye protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by European Standard EN166.

Hygiene measures: Wash hands before breaks and after work. Do not eat, drink or smoke in the workplace.


9. Physical and chemical properties.

Physical state:	R1 – R2 Liquid solution
Colour:	Colourless. Clear and transparent
Odour:	Odourless
pH value:	R1<2
Boiling point:	-
Melting point:	-
Flash point:	-
Ignition temperature:	-
Explosion limits:	-
Vapour pressure:	-
Density:	-
Solubility in water:	Yes
Viscosity:	-

10. Stability and Reactivity Data.

Chemical Stability: Stable under normal temperatures and pressures.

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Incompatibilities with Other Materials: Aluminium, amines, carbides, hydrides, fluorine, alkaline metals, KMnO₄, strong bases, salts of oxyhalogenic acids, concentrated sulphuric acid, semimetallic hydrogen compounds, semimetallic oxides, aldehydes, sulphides, lithium silicide and vinyl methyl ether.

Hazardous Decomposition Products: Hydrogen chloride. Chlorine.

11. Toxicological information.

Quantitative data on the toxicity of this product are not available. THE FOLLOWING APPLIES TO HYDROCHLORIC ACID:

11.1 Acute toxicity

LC50 inh rat: 3124 ppm(V)/1 h.

11.2 Dangerous health effects

After inhalation: irritations to the respiratory tract

After eyes or skin contact: irritations.

12. Ecological information.

Ecological data for this product is not available. THIS APPLIES TO HYDROCHLORIC ACID:

12.1 EC50 Test:

Fish Test=25 mg/L; Classification: Toxic

Leuciscus idus=862 mg/L (48h)(1N); Classification: Very toxic.

12.2 Receptor medium:

Risk for the water environment= Medium

Risk for the land environment=Medium.

12.3 Observations


Has a major acute effect on the water and land environment depending on pH.

It is not bio-accumulable, although it is accumulable in water courses and soils in saline form (Cl⁻)

12.4 Other possible effects:

Generally, its effect is acutely considerable in the dumping area. Its long-term effect is not so considerable if the dumping is not frequent. The treatment is neutralization.

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13. Waste disposal information.

Accordance with local regulations should be observed.
 Handle contaminated packaging in the same way as the substance itself.

14. Transport information.

This product is not subject to current regulations for transportation of hazardous goods.

15. Regulatory information.

SYMBOL	C	Corrosive
R	35	Causes severe burns.

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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