

Trade name: BioSpectrometer Test filter set - Holmium

Status: 28.02.2011

Product no.: 6135931070-00

Version: 1.0.0 / GB

1.) Identification of the substance/mixture and of the company/undertaking**Trade name****BioSpectrometer Test filter set - Holmium****Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

wavelengths adjustment container

Details of the supplier of the safety data sheet**Address**Eppendorf AG
Barkhausenweg 1
D-22339 Hamburg

Telephone no. +49 40 53801-0

Information provided by / telephone

Eppendorf Application-Hotline

Tel.: +49 1803 66 67 89

Fax: +49 4053 99 01 25

email: support@eppendorf.de

Emergency telephone

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

Advice on Safety Data Sheet

sdb_info@umco.de

2.) Hazards identification**Classification of the substance or mixture****Classification information**

This product is in the sense of article 3 of the Regulation (EC) 1907/2006 (REACH) an article and not subject to the labelling obligations according to:

- Art. 1, Regulation (EC) 1272/2008 (CLP);

- Article 12.(2), Directive 1999/45 (DPD).

To provide a safety data sheet is not mandatory for articles and is done on a voluntary basis.

Other hazards

The information given in this safety data sheet are for the cuvette. Due to the small size and volume of the sealed cells and the complete sealing of the materials in quartz cells the only contact that can be made to the chemicals is through the breakage of the cells. The quartz shards would be more hazardous and must be handled as with any glass breakage. Direct skin contact will cause irritation.

3.) Composition / information on ingredients**Chemical characterization**Cuvette, contains aqueous solution prepared in 10% (volume fraction) perchloric acid to contain 4,0% (mass fraction) Holmium Oxide (Ho₂O₃).**4.) First aid measures****General information**

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.).

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After ingestion

Seek medical advice immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

5.) Fire-fighting measures**Suitable extinguishing media**

Foam; Carbon dioxide; extinguishing powder; Water spray jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)

Special protective equipment for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing.

6.) Accidental release measures**Personal precautions**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Scoop-up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations".

7.) Handling and storage**Handling****Advice on safe handling**

No special measures necessary if stored and handled as prescribed. Service temperature: ambient temperature
All standards may be stored without hesitation at a temperature range of +0. °C to +45 °C. However, one should wait until the standard is adapted to the ambient temperature conditions at which it is going to be used (approx. +20 - +22 °C) before measuring.

Advice on protection against fire and explosion

No special measures necessary.

Storage**Requirements for storage rooms and vessels**

Keep the product in the original packing.

Advice on storage assembly

None known

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing.

Recommended storage temperature

Value 5 - 45 °C

8.) Exposure controls / personal protection**Exposure limit values**

N O N E

Exposure controls**Personal protective equipment****Respiratory protection**

No special measures required.

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Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Eye protection

Safety glasses recommended

Skin protection

Check suitability of protective clothing for the specific workplace conditions. Chemical resistance of the protective equipment should be discussed with the manufacturer of the protective equipment.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

9.) Physical and chemical properties**General information**

Form	cuvette
Colour	transparent
Odour	odourless

Important health, safety and environmental information**Changes in physical state**

Type	Boiling point	
Value	100	° C

10.) Stability and reactivity**Conditions to avoid**

None known

Materials to avoid

None known.

Hazardous decomposition products

No hazardous decomposition products known.

Thermal decomposition

Remarks	No decomposition if used as prescribed.
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11.) Toxicological information**Experience in practice**

When handled appropriately adverse health effects are not to be expected.

Other information

Product specific toxicological data are not known.

12.) Ecological information**Other information**

Ecological data are not available.

13.) Disposal considerations**Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

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Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

14.) Transport information**Other information**

The product is not defined under national/international road, rail, sea and air transport regulations as a hazardous material.

15.) Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Restriction of occupation**

Adhere to the national regulations when using this product.

16.) Other information**Sources of key data used to compile the data sheet:**

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Relevant R-phrases (chapter 3):**Department issuing safety data sheet**

UMCO Umwelt Consult GmbH

Georg-Wilhelm-Str. 183 b, D-21107 Hamburg

Tel.: +49 40 / 41 92 13 00 Fax: +49 40 / 41 92 13 57 e-mail: umco@umco.de

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.