

Sulphate R1, R1L

Date 3.4.2008

Previous date: -

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1 Identification of the substance or preparation****1.1.1 Commercial Product Name**

Sulphate R1, R1L

1.1.2 Product code

984648, 984649

1.2 Use of the Substance/Preparation**1.2.1 Expressed in writing**

For general laboratory purposes.

1.3 Company/undertaking identification**1.3.1 Supplier**

Thermo Fisher Scientific Oy, Clinical Diagnostics Finland

1.3.2 Contact information:

Ratastie 2, P.O.Box 100
 FI-01621 Vantaa
 FINLAND
 +358-9-329 100
 +358-9-3291 0300
 FI09215470

2. HAZARDS IDENTIFICATION**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Hazardous components**

3.1.1 CAS/EC and Reg.number	3.1.2 Chemical name of the substance	3.1.3 Concentration	3.1.4 Classification
10361-37-2	Barium chloride	1 %	T; R25;Xn; R20

4. FIRST AID MEASURES**4.1 Additional advice**

Symptoms of poisoning may only appear several hours later. Medical supervision for minimum 48 hours.

4.2 Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Keep patient warm and at rest. Get medical attention immediately if symptoms occur.

4.4 Eye contact

Immediately flush eye(s) with plenty of water.

4.5 Ingestion

Call a physician immediately.

5. FIRE-FIGHTING MEASURES**5.1 Suitable extinguishing media**Carbon dioxide (CO₂), Foam, Water**5.4 Special protective equipment for firefighters**

Respiratory protection

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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions**
Use personal protective equipment.
- 6.2 Environmental precautions**
Flush with plenty of water. Do not flush into surface water or sanitary sewer system.
- 6.3 Methods for cleaning up**
Soak up with inert absorbent material and dispose of as hazardous waste.

7. HANDLING AND STORAGE

- 7.1 Handling**
Provide adequate ventilation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Exposure Limit Values**
- 8.1.1 Threshold limits**
10361-37-2 Barium chloride 0.5 mg/m³ (8 h)
Ba, soluble compounds
- 8.2 Exposure controls**
- 8.2.1 Occupational exposure controls**
Wear protective gloves.
- 8.2.1.1 Respiratory protection**
Breathing apparatus with filter.
- 8.2.1.2 Hand protection**
Impervious gloves
- 8.2.1.3 Eye protection**
Goggles
- 8.2.1.4 Skin and body protection**
Lab coat

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 General Information (appearance, odour)**
liquid
- 9.2 Important Health Safety and Environmental Information**
- 9.2.2 Boiling point/range** 100 °C
- 9.2.4 Flammability (solid, gas)** not auto-flammable
- 9.2.8 Relative density** 1.0 g/cm³
- 9.2.9 Solubility**
- 9.2.9.1 Water solubility** completely soluble

10. STABILITY AND REACTIVITY

- 10.3 Hazardous decomposition products**
No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

- 11.1 Acute toxicity**

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Barium chloride:
LD50/oral/rat = 118 mg/kg

11.3 Sensitisation

No sensitization responses were observed.

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity****12.1.1 Aquatic toxicity**

slightly water endangering

13. DISPOSAL CONSIDERATIONS

The product has to be disposed of as laboratory chemical in accordance with local regulations.

14. TRANSPORT INFORMATION

14.1 UN-No -

14.2 Packaging group -

15. REGULATORY INFORMATION**15.1 Information on the warning label****15.1.1 Letter code of the warning symbol and indications of danger for the preparation**

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15.1.3 R-phrases(s)

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15.1.4 S-phrases(s)

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16. OTHER INFORMATION**16.1 List of relevant R phrases**

R25 Toxic if swallowed.

R20 Harmful by inhalation.

16.4 Additional information available from:

Code of the Material Safety Data Sheet: D06710-01-MSDS-Sulphate R1-EN

Corporation mentioned in point 1.3.

The information in this datasheet is to our best knowledge correct and complete, and is offered in good faith as accurate. It characterizes the product with regard to the appropriate safety precautions. It does not guarantee properties of the product.

16.5 Literary reference

The MSDS of the manufacturer.

This product has been evaluated in accordance with the directives 1967/548/EEC, 1999/45/EC and 2001/58/EC.

03.04.2008

LMKo