


**1 Identification of the substance/preparation and the company/undertaking**

<b>Trade name</b>	Sulphate	<b>Supplier</b>	Labmedics Limited
<b>Article number</b>	Sulphate		Telegraphic House Waterfront Quay Salford Quays Manchester M50 3XW United Kingdom Tel : 0044 161 869 0420

**2 Composition/information on ingredients****Chemical characterisation :****CAS No. Description** Purified Water**Identification number(S)****EINECS Number** 231-791-2**Chemical characterisation****Description** Mixture of substances listed below with nonhazardous additions**Dangerous Components**

<b>CAS</b>	10361-37-2	Barium Chloride		Xn	< 2.5%
<b>EINECS</b>	233-788-1				

R20/22

**CAS****EINECS****CAS****EINECS****3 Hazards identification****Hazard description**

Xn

Harmful.

**Information concerning to particular hazards to man and environment**

This product has been classified and labeled in accordance with EU Directive 99/45/EC and all other EU Directives referred to therein.

R20/22 Harmful by inhalation and if swallowed

**Classification system**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data

Printing date 04/11/04

**Trade Name** Sulphate

#### 4 First aid measures

**General information**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident

**After inhalation**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact** Generally the product does not irritate the skin

**After eye contact** Rinse opened eye for several minutes under running water

**After swallowing** Call for doctor immediately

#### 5 Fire fighting measures

**Suitable extinguishing agents**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam

**Protective equipment**

Mount respiratory protective device

#### 6 Accidental release measures

**Person related safety precautions**

Not required

**Measures for environmental protection**

Dilute with plenty of water

Do not allow to enter sewers / surface or ground water

**Measures for cleaning/collecting**

Absorb with liquid binding material (sand, acid binders, universal binders, sawdust)

Dispose contaminated material as waste according to item 13

Ensure adequate ventilation

#### 7 Handling and storage

**Handling****PPE to be worn**

see Section 8

**Information for safe handling**

Ensure good ventilation at workplace

**Information about fire and explosion protection**

No special measures required

**Storage****Requirements to be met by storerooms and receptacles**

None

**Information about storage in one common storage facility**

Not required

**Further information about storage conditions**

Keep tightly sealed

Printing date 04/11/04

**Trade Name** Sulphate

## 8 Exposure controls / personal protection

### **Additional information about design of technical facilities**

No further data, see item 7.

### **Ingredients with limit values that require monitoring at the workplace**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### **The lists valid during the making were used as basis**

### **Personal Protective equipment**

#### **General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed  
Wash hands before breaks and at the end of work

#### **Respiratory protection**

In case of brief exposure or low pollution use respiratory filter device. In case of extensive or longer exposure use self contained respiratory protective device

#### **Protection of hands**

The glove material has to be impermeable and resistant to the product.  
Due to missing tests no recommendations to the glove material can be given for the product

Selection of glove material on consideration of the penetration times, rates of diffusion and the degradation

#### **Material of gloves**

The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and therefore has to be checked prior to the preparation.

#### **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed

#### **Eye protection**

Goggles recommended during filling

Printing date 04/11/04

**Trade Name** Sulphate

## 9 Physical and chemical properties

### General Information

<b>Form</b>	Fluid
<b>Colour</b>	According to specification
<b>Odour</b>	Characteristic

### Change in condition

<b>Melting point</b>	0 degC
<b>Boiling point</b>	100 degC

<b>Flash point</b>	not applicable
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<b>Self igniting</b>	Product is not self igniting
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<b>Danger of explosion</b>	Product does not present an explosion hazard
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<b>Density at 20degC</b>	1.0 g/cm <sup>3</sup>
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<b>Solubility/miscibility with water</b>	Fully miscible
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### Solvent content

<b>Organic solvent</b>	0%
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## 10 Stability and reactivity

### Thermal decomposition / conditions to be avoided

No decomposition is used according to specifications

### Dangerous reactions

No dangerous reactions known

### Dangerous decomposition products

No dangerous decomposition products known

Printing date 04/11/04

**Trade Name** Sulphate

## 11 Toxicological Information

**Acute toxicity****Primary irritant effect**

on skin	No irritant effect
on eye	No irritant effect

**Sensitisation** No sensitising effects known**Additional toxicological information**

The product shows the following dangers according to the calculation method of the General Classification Guidelines for Preparations as issues in the latest version

Harmful

## 12 Ecological Information

**General Notes**

Water hazard class 1 (German Regulation) (Self assessment) :  
slightly hazardous for water

Do not allow undiluted product to reach ground water, water course or sewage system

## 13 Disposal Considerations

Product

**Recommendations**

Must not be disposed together with household garbage. Do not allow product to reach sewage system

**Uncleaned packaging****Recommendation**

Disposal must be made according to official regulations

**Recommended cleansing agents**

Water, if necessary together with cleansing agents.

Printing date 04/11/04

**Trade Name** Sulphate

## 14 Transport Information

### Land transport ADR/RID (cross border)



**ADR/RID class**

### Maritime transport IMDG



**IMDG Class**

**Marine Pollutant** No

### Air transport ICAO and IATA-DGR



**ICAO/IATA Class**

## 15 Regulatory Information

### **Labeling according to EU guidelines**

Observe the general safety regulations when handling chemicals

The product has been classified and marked in accordance with EU Directive 99/45/EC and all other EU Directives referred to therein.

### **Code letter and Hazard designation of product**



Xn Harmful

### **Hazard determining components of labeling**

Barium chloride

### **Risk phrases**

20/22 Harmful by inhalation and if swallowed

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**Material Safety Data Sheet  
According to 91/155 EC**

version number 9

*Reviewed on 31.10.03*

*page 7 of 7*

Printing date 04/11/04

**Trade Name** Sulphate

**Safety phrases**

- 9 Keep container in a well ventilated place
- 36 Wear suitable protective clothing
- 60 This material and its container must be disposed of as hazardous waste

**National regulations**

**Water hazard class**

Water hazard class 1 (self assessment) : Slightly hazardous for water

**16 Other Information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing M.S.D.S      Technical Department  
Contact                                      T. Pike