



# Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name: Reference solution 10 S/m  
Product No: R 3.004  
Version: 1.1

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Revision date: 2017-05-19

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier:** Reference solution 10 S/m

**1.2 Relevant identified uses of the substance**  
Measurement of conductivity.

**1.3 Details of the supplier of the safety data sheet:**

**Supplier:**

DFM A/S  
Matematiktorvet 307  
2800 Kgs. Lyngby  
Denmark  
Telephone: +45 45 93 11 44  
E-Mail crm@dfm.dk

**1.4 EMERGENCY TELEPHONE NUMBER:**

Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service

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## SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture:**  
None

**2.2 Label elements**  
None

**2.3 Other hazards**  
None

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## SECTION 3. Composition/information on ingredients

**3.1 Substances**  
Not applicable

**3.2 Mixtures**

**Description of the mixture:** Aqueous solution of potassium chloride.

**Hazardous ingredients**

Substance name	CAS No.	Concentration
Water	231-791-2	> 93 %
Potassium chloride	7447-40-7	< 7 %



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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information:**

Take off all contaminated clothing immediately.

**Following inhalation:**

Move to fresh air.

**Following skin contact:**

Wash off immediately with plenty of water.

**Following eye contact:**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Following ingestion:**

Clean mouth with water and drink afterwards plenty of water.

**Self-protection of the first aider:**

None

### 4.2 Most important symptoms and effects, both acute and delayed

No known effect.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Special hazards arising from the substance or mixture

None

### 5.3 Advice for fire-fighters

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

**Additional information:**

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.



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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

None.

### 6.2 Environmental precautions:

None.

### 6.3 Methods and material for containment and cleaning up

Soak up with absorbing material

### 6.4 Reference to other sections

13. Disposal considerations

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Protective measures:

None

### 7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry cool place

### 7.3 Specific end uses:

Reagent for analysis

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

None known

### 8.2 Exposure controls

No dangerous reaction known under conditions of normal use.

#### 8.2.2 Personal protective equipment:

**Eye / Face protection:** Suitable eye protection

**Skin protection:** Use suitable gloves. Remove and wash contaminated clothing before re-use.

**Respiratory protection:** No dangerous reaction known under conditions of normal use.



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## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical state:** Liquid

**Colour:** Colourless

**Odour:** Odourless

	Value
<b>pH</b>	
<b>Melting point/freezing point</b>	no data available
<b>Initial boiling point/boiling range</b>	approx.100 °C
<b>Flash point</b>	not applicable
<b>Evaporation rate</b>	no data available
<b>Flammability (solid, gas)</b>	not applicable
<b>Upper/lower flammability or explosive limits</b>	not applicable
<b>Upper explosive limits</b>	not applicable
<b>Lower explosive limits</b>	not applicable
<b>Vapour pressure</b>	no data available
<b>Vapour density</b>	not applicable
<b>Relative density</b>	not applicable
<b>Solubility(ies)</b>	not applicable
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Auto-ignition temperature</b>	not applicable
<b>Decomposition temperature</b>	not applicable
<b>Viscosity</b>	no data available
<b>Viscosity, dynamic</b>	no data available
<b>Viscosity, cinematic</b>	no data available
<b>Explosive properties</b>	not applicable
<b>Oxidising properties</b>	not applicable

### 9.2 Other information:

Not applicable



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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None known.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid:

Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials:

None known.

### 10.6 Hazardous decomposition products:

No decomposition if stored and applied as directed.

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## SECTION 11: Toxicological information

No data is available on the product itself.

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Animal data:

Potassium chloride	Effect dose /-concentration	Value	Species	Source
Oral	LD50	2600 mg/kg bw	Rat	RTEC

#### Irritation and corrosivity

No known effect.

#### Sensitising effects

No known effect.

#### Aspiration hazard

No aspiration toxicity classification

#### Further information

Other dangerous properties cannot be excluded. Handle in accordance with good industrial hygiene and safety practice.



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## SECTION 12: Ecological information

### 12.1 Toxicity:

#### Aquatic toxicity

Acute Aquatic toxicity

	Effect dose/- concentration	Value	Test duration	Species	Source
Potassium chloride	LC50	920 mg/l	96 h	Gambusia affinis (Mosquito fish)	IUCLID
Potassium chloride	ErC50	2500 mg/l	72 h	Pseudokirchneriella subcapitata (green algae)	IUCLID
Potassium chloride	EC50	825 mg/l	48 h	Daphnia magna (Water flea)	IUCLID

### 12.2 Persistence and degradability

No data is available on the product itself.

### 12.3 Bio accumulative potential

No data is available on the product itself.

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects:

No known effect.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Advice on disposal

In accordance with local and national regulations.

#### Waste disposal number of waste from residues/unused products, used products and contaminated packing:

160506

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.



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## **SECTION 14: Transport information**

Not subject to transport regulations.

### **14.6 Special precautions for user**

No data available

### **14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

#### **Additional information**

##### **All transport carriers**

Not subject to transport regulations

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## **SECTION 15: Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

The product does not need to be labelled in accordance with EC directives or respective national laws.

#### **15.1.2 National regulations**

Water contaminating class (D): 1 - slightly water contaminating

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## **SECTION 16: Other information**

### **Further information:**

The information is based on present level of our knowledge.