

# Safety Data Sheet

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



DFM

Danmarks Nationale Metrologiinstitut

Trade name: Reference solution 0.1 S/m  
Product No: R 3.002  
Version: 1.2

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Revision date: 2020-01-28

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

**1.1 Product identifier:** Reference solution 0.1 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  
Kogle Allé 5  
2970 Hørsholm  
Denmark  
Telephone: +45 77 30 58 00  
E-Mail crm@dfm.dk

**1.4 EMERGENCY TELEPHONE NUMBER:**

**Giftlinjen:** +45 82 12 12 12 - 24 hour emergency service

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
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Water	7732-18-5	> 99.1 %
Potassium chloride	7447-40-7	> 0.1 %

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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

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**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.

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## 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
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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.

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## 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.