



Safety Data Sheet

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

Trade name: Reference solution 10 S/m
Product No: R 3.004
Version: 1.2

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Revision date: 2017-08-18

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:

Giftlinjen: +45 82 12 12 12 - 24 hour emergency service
Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency service

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

None

2.2 Label elements

None

2.3 Other hazards

None

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 | > 93 % |
| Potassium chloride | 7447-40-7 | < 7 % |

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.

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

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

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

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

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

SECTION 16: Other information

Further information:

The information is based on present level of our knowledge.