

Safety Data Sheet

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



DFM
Danmarks Nationale Metrologiinstitut

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

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Revision date: 2020-01-28

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
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

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.

SECTION 6: Accidental release measures

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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.

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
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

SECTION 10: Stability and reactivity

10.1 Reactivity

None known.

10.2 Chemical stability

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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.

SECTION 12: Ecological information

12.1 Toxicity:

Aquatic toxicity

Acute Aquatic toxicity

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	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.

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

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Additional information All transport carriers
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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

SECTION 16: Other information

Further information:

The information is based on present level of our knowledge.