

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**2714349 Salinity Standard Solution**

Revision date: 09.03.2018

Product code: 2714349

Page 1 of 7

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

2714349 Salinity Standard Solution

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Water analysis

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

Company name: HACH LANGE GmbH  
Street: Willstätterstr. 11  
Place: D-40549 Düsseldorf  
Telephone: +49 (0)211 5288-383  
e-mail: SDS@hach.com  
Internet: www.de.hach.com  
Responsible Department: HACH LANGE Ltd.  
5, Pacific Way  
Salford Manchester M50 1DL - United Kingdom  
Tel. +44 (0) 161 872 1487 \* Fax +44 (0) 161 848 7324  
e-Mail: info-uk@hach.com

HACH LANGE Ltd.  
Unit 1, Chestnut Road Western Industrial Estate  
IRL-Dublin 12  
Tel. +353 (0)1 4602522  
e-Mail: info-ie@hach.com

**1.4. Emergency telephone number:**

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****Regulation (EC) No. 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

**2.2. Label elements****Additional advice on labelling**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.3. Other hazards**

None known.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**2714349 Salinity Standard Solution**

Revision date: 09.03.2018

Product code: 2714349

Page 2 of 7

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
7732-18-5	Water			>95 %
	231-791-2			
7447-40-7	Potassium chloride			1 - 5 %
	231-211-8			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Take off all contaminated clothing immediately.

**After inhalation**

Move to fresh air.

**After contact with skin**

Wash off immediately with plenty of water. In the case of skin irritation or allergic reactions see a physician.

**After contact with eyes**

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

**After ingestion**

Drink 1 or 2 glasses of water. If you feel unwell, seek medical advice (show the label where possible).

**4.2. Most important symptoms and effects, both acute and delayed**

None known.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

**5.2. Special hazards arising from the substance or mixture**

Fire may liberate hazardous vapours.

**5.3. Advice for firefighters**

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****6.1. Personal precautions, protective equipment and emergency procedures**

Only qualified personnel equipped with suitable protective equipment may intervene.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 2714349 Salinity Standard Solution

Revision date: 09.03.2018

Product code: 2714349

Page 3 of 7

#### **6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

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

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local/national regulations (see section 13).

#### **6.4. Reference to other sections**

13. Disposal considerations

## SECTION 7: Handling and storage

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Use only in well-ventilated areas.  
Do not breathe vapours/dust.

#### **Advice on protection against fire and explosion**

See also section 5

#### **Further information on handling**

Avoid contact with skin, eyes and clothing.

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

#### **Requirements for storage rooms and vessels**

None known.

### **7.3. Specific end use(s)**

Reagent for analysis

## SECTION 8: Exposure controls/personal protection

### **8.1. Control parameters**

#### **Additional advice on limit values**

Wash thoroughly after handling.

### **8.2. Exposure controls**

#### **Appropriate engineering controls**

General hygiene considerations

#### **Protective and hygiene measures**

The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Wash hands before breaks and after work.

Smoking, eating and drinking should be prohibited in the application area.

#### **Eye/face protection**

Safety glasses with side-shields

#### **Hand protection**

Wash hands before breaks and at the end of workday. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Glove material (Break through time > 480 Min.):

Natural Rubber (0,5 mm)

Nitrile rubber (0,5 mm)

butyl-rubber (0,5 mm)

Fluorinated rubber (0,4 mm)

#### **Skin protection**

Avoid contact with skin, eyes and clothing.

Remove and wash contaminated clothing before re-use.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**2714349 Salinity Standard Solution**

Revision date: 09.03.2018

Product code: 2714349

Page 4 of 7

**Respiratory protection**

Provide adequate ventilation.  
Breathing apparatus only if aerosol or dust is formed.  
Recommended Filter type: P1 filter

**Environmental exposure controls**

Should not be released into the environment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	liquid	
Colour:	colourless	
Odour:	odourless	
pH-Value:		Keine Daten verfügbar

**Changes in the physical state**

Melting point:		no data available
Initial boiling point and boiling range:		Keine Daten verfügbar
Sublimation point:		not applicable
Softening point:		not applicable
Flash point:		not applicable

**Flammability**

Solid:		not applicable
Gas:		not applicable

**Explosive properties**

not applicable

Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Ignition temperature:		not applicable

**Auto-ignition temperature**

Solid:		not applicable
Gas:		not applicable

Decomposition temperature:		no data available
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**Oxidizing properties**

not applicable

Vapour pressure:		not applicable
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Density (at 20 °C):		1,216 g/cm <sup>3</sup>
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Bulk density:		no data available
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Water solubility: (at 20 °C)		miscible
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**Solubility in other solvents**

no data available

Partition coefficient:		not applicable
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Viscosity / dynamic:		not applicable
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Viscosity / kinematic:		not applicable
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Flow time:		not applicable
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Vapour density:		not applicable
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## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 2714349 Salinity Standard Solution

Revision date: 09.03.2018

Product code: 2714349

Page 5 of 7

Evaporation rate: not applicable  
 Solvent separation test: not applicable  
 Solvent content: not applicable

#### 9.2. Other information

Solid content: not applicable

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 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.

#### Further information

Incompatible materials to avoid: BrF<sub>3</sub> (Bromine trifluoride)

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Toxicokinetics, metabolism and distribution

No toxicology information is available.

##### Acute toxicity

No data is available on the product itself.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7447-40-7	Potassium chloride				
	oral	LD50 mg/kg	2600	Ratte	RTECS

##### Irritation and corrosivity

No known effect.

##### Sensitising effects

No known effect.

##### Carcinogenic/mutagenic/toxic effects for reproduction

Contains no ingredient listed as a carcinogen

##### STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

##### STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

##### Aspiration hazard

No aspiration toxicity classification

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 2714349 Salinity Standard Solution

Revision date: 09.03.2018

Product code: 2714349

Page 6 of 7

#### Specific effects in experiment on an animal

No toxicology information is available.

#### Practical experience

#### Observations relevant to classification

None known.

#### Further information

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

### SECTION 12: Ecological information

#### 12.1. Toxicity

No data is available on the product itself.

Do not flush into surface water or sanitary sewer system.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
7447-40-7	Potassium chloride					
	Acute fish toxicity	LC50 920 mg/l	96 h	Gambusia affinis (Mosquito fish)	IUCLID	
	Acute algae toxicity	ErC50 mg/l 2500	72 h	Pseudokirchneriella subcapitata (green algae)	IUCLID	
	Acute crustacea toxicity	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. Bioaccumulative 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

##### Disposal recommendations

In accordance with local and national regulations.

Dispose of in accordance with the European Directives on waste and hazardous waste.

##### Contaminated packaging

Dispose of as unused product.

The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

##### Other applicable information (land transport)

Not subject to transport regulations.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 2714349 Salinity Standard Solution

Revision date: 09.03.2018

Product code: 2714349

Page 7 of 7

#### Inland waterways transport (ADN)

##### Other applicable information (inland waterways transport)

Not tested

#### Marine transport (IMDG)

##### Other applicable information (marine transport)

Not subject to transport regulations.

#### Air transport (ICAO-TI/IATA-DGR)

##### Other applicable information (air transport)

Not subject to transport regulations.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

#### 14.6. Special precautions for user

no data available

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

### SECTION 15: Regulatory information

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

##### EU regulatory information

##### Additional information

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

##### National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

Revision: 09.03.2018

Safety datasheet sections which have been updated: 4, 5, 7, 8, 11

Revision: 18.08.2014

Safety datasheet sections which have been updated: 1 - 16

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*