

HACH LANGE GmbH

according to Regulation (EC) No 1907/2006

# 1425249 Sulfate Standard Solution 2500 mg/l

Revision date: 27.11.2017 Product code: 1425249 Page 1 of 8

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

### 1.1. Product identifier

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1425249 Sulfate Standard Solution 2500 mg/l

# 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
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Place: D-40549 Düsseldorf
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1.4. Emergency telephone Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency

number: 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



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#### **Hazardous components**

CAS No	Chemical name					
	EC No	Index No	REACH No			
	GHS Classification	•	•			
7732-18-5	Water					
	231-791-2					
7757-82-6	Sodium sulfate					
	231-820-9					
-	hydrochloric acid %					
	231-595-7	017-002-01-X				
	Skin Corr. 1B, STOT SE 3; H314 H335					

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.

### After contact with eyes

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

# After ingestion

Clean mouth with water and drink afterwards plenty of water.

## 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

### Suitable extinguishing media

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

# Unsuitable extinguishing media

This information is not available.

# 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.





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### **SECTION 6: Accidental release measures**

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

Use personal protective equipment.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Clean contaminated surface thoroughly.

### 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.

General hygiene considerations. Wash thoroughly after handling.

Do not get in eyes.

## Advice on protection against fire and explosion

See also section 5

#### Further information on handling

None known.

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

# Requirements for storage rooms and vessels

Keep at temperatures between 10 and 25 °C.

Protect from frost, heat and sunlight.

#### Hints on joint storage

None known.

# Further information on storage conditions

Keep in a dry place.

## 7.3. Specific end use(s)

Reagent for analysis

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7647-01-0	Hydrogen chloride (gas and aerosol mists)	1	2		TWA (8 h)	WEL
		5	8		STEL (15 min)	WEL

### Additional advice on limit values

None known.

### 8.2. Exposure controls

### Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.



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### 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.

Ensure that eyewash stations and safety showers are close to the workstation location.

Wash hands before breaks and after work.

#### Eye/face protection

Safety glasses with side-shields

## Hand protection

Use barrier skin cream.

Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374. In full contact: Gloves material: Viton, Layer thickness: 0.70 mm, Breakthrough time: >480 min. In splash contact: Glove material: nitrile rubber, Layer thickness 0,20 mm, Breakthrough time: > 30 min

#### Skin protection

Remove and wash contaminated clothing before re-use.

### Respiratory protection

Breathing apparatus only if aerosol or dust is formed.

#### **Environmental exposure controls**

This information is not available.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless
Odour: odourless

pH-Value: 2,2

## Changes in the physical state

Melting point:

Initial boiling point and boiling range:

Sublimation point:

Softening point:

Pour point:

Pour point:

Tlash point:

Rot applicable

not applicable

not applicable

not applicable

not available

No data available

Sustaining combustion:

No data available

**Flammability** 

Solid: not applicable
Gas: not applicable

# **Explosive properties**

not applicable

Lower explosion limits:

Upper explosion limits:

Ignition temperature:

not applicable

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:

Vapour pressure:

no data available

no data available

Density:

no data available

Bulk density:

not applicable

Water solubility:

miscible

### Solubility in other solvents

Acids: miscible

Partition coefficient: no data available Viscosity / dynamic: no data available Viscosity / kinematic: no data available no data available Flow time: Vapour density: no data available no data available Evaporation rate: Solvent separation test: no data available Solvent content: no data available

### 9.2. Other information

Solid content: not applicable

no data available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

See also section 10.3

#### 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

Materials to avoid: Alkali metals

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

#### **Further information**

None known.

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

### **Acute toxicity**

No data is available on the product itself.



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CAS No	Chemical name							
	Exposure route	Dose		Species	Source	Method		
7757-82-6	Sodium sulfate							
	oral	LD50 mg/kg	5989	mouse				
-	hydrochloric acid %							
	dermal	LD50 mg/kg	>5010					

## Irritation and corrosivity

No known effect.

## Sensitising effects

Contains no substance or substances classified as sensitising.

### 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

## Specific effects in experiment on an animal

No data is available on the product itself.

### Additional information on tests

no data available

## **Practical experience**

#### Observations relevant to classification

no data available

# Other observations

no data available

#### **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			
7757-82-6	Sodium sulfate									
	Acute fish toxicity	LC50	120 mg/l	96 h	Gambusia affinis	Merck				
	Acute crustacea toxicity	EC50 mg/l	2564	48 h						
-	hydrochloric acid %	hydrochloric acid %								
	Acute fish toxicity	LC50	862 mg/l	96 h	Leuciscus idus					

## 12.2. Persistence and degradability

No data is available on the product itself.



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### 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.

#### **Further information**

no data available

## **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

#### Disposal recommendations

In accordance with local and national regulations.

### List of Wastes Code - residues/unused products

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

### List of Wastes Code - used product

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

## List of Wastes Code - contaminated packaging

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and

discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances,

including mixtures of laboratory chemicals; hazardous waste

### Contaminated packaging

Dispose of as unused product.

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

## Other applicable information (inland waterways transport)

Not tested

Marine transport (IMDG)

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

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

## Other applicable information



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Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit, Hazard Class: 9, UN Number3316, Package group II, EMS Code: F-A, S-P

# **SECTION 15: Regulatory information**

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

## National regulatory information

Water hazard class (D): -- non-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: 27.11.2017

Safety datasheet sections which have been updated: 2, 11

Revision: 22/10/2015

Safety datasheet sections which have been updated: 1 - 16

#### Relevant H and EUH statements (number and full text)

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

#### **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.)