

according to Regulation (EC) No 1907/2006

## 1995-32 Molybdate 3 Reagent for Silica

Revision date: 02.02.2017

Product code: 199532

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

## 1.1. Product identifier

1995-32 Molybdate 3 Reagent for Silica

# 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	Poison Control Center Mainz: Tel: +49 (0) 6131 19240 - 24 hour emergency
<u>number:</u>	service -

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

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

Hazard categories: Substance or mixture corrosive to metals: Met. Corr. 1 Skin corrosion/irritation: Skin Corr. 1 Specific target organ toxicity - repeated exposure: STOT RE 1 Hazard Statements: May be corrosive to metals. Causes severe skin burns and eye damage. Causes damage to organs through prolonged or repeated exposure.

#### 2.2. Label elements

## Regulation (EC) No. 1272/2008

## Hazard components for labelling

sulphuric acid ... % sodium hydrogensulphate Molybdic acid

Signal word:

#### **Pictograms:**



Danger



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### **Hazard statements**

H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H372	Causes damage to organs through prolonged or repeated exposure.
Precautionary statemer	nts
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P270	Do not eat, drink or smoke when using this product.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

	present and easy to do. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water
	or shower.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310	Immediately call a POISON CENTER/doctor.

## Additional advice on labelling

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

### 2.3. Other hazards

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## **SECTION 3: Composition/information on ingredients**

## 3.2. Mixtures

### Hazardous components

CAS No	Chemical name			
	EC No	Index No	REACH No	
	Classification according to F	Regulation (EC) No. 1272/2008	[CLP]	
7732-18-5	Water			> 60 %
	231-791-2			
		·	·	
7664-93-9	sulphuric acid %	< 15 %		
	231-639-5	016-020-00-8		
	Skin Corr. 1A; H314			
10034-88-5	5 sodium hydrogensulphate		< 20 %	
	231-665-7	016-046-00-X		
	Eye Dam. 1; H318			
7782-91-4	Molybdic acid	< 15 %		
	231-970-5			
	Eye Irrit. 2, STOT SE 3, STOT RE 1; H319 H335 H372			

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 contaminated clothing and shoes immediately. Show this safety data sheet to the doctor in attendance.

### After inhalation

Move to fresh air. Consult a physician.



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## After contact with skin

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call 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. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

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

Irritation and corrosion

#### 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

Water, Carbon dioxide (CO2), Dry chemical

#### Unsuitable extinguishing media

No Limit

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

Hazardous decomposition products formed under fire conditions.

## 5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

#### 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

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 and dispose of as hazardous waste.

## 6.4. Reference to other sections

13. Disposal considerations

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid contact with skin and eyes. Avoid contact with clothing. Do not breathe vapours/dust. Provide sufficient air exchange and/or exhaust in work rooms.

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

#### Requirements for storage rooms and vessels

Keep at temperatures between 10 and 25 °C.

## Hints on joint storage

Do not store together with Oxidizing agents, Solvent



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## 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
7664-93-9	Sulphuric acid (mist)	-	0.05		TWA (8 h)	WEL

## Additional advice on limit values

None known.

## 8.2. Exposure controls

### Appropriate engineering controls

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

## Protective and hygiene measures

Wash hands before breaks and at the end of workday.

#### 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

Avoid contact with skin, eyes and clothing.

## **Respiratory protection**

Ensure adequate ventilation, especially in confined areas.

### Environmental exposure controls

Do not flush into surface water or sanitary sewer system.

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

## 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour: pH-Value (at 20 °C):	liquid colourless, light yellow none	< 0.5
Changes in the physical state		- / -
Melting point:		not applicable
Initial boiling point and boiling range:		100 °C
Sublimation point:		not applicable
Softening point:		not applicable
Pour point:		not applicable
Flash point:		> 100 °C
Flammability Solid:		not applicable



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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: Gas:	not applicable not applicable	
Decomposition temperature:	not applicable	
Oxidizing properties not applicable		
Vapour pressure:	no data available	
Vapour pressure:	no data available	
Density (at 20 °C):	1,2 - 1,3 g/cm³	
Bulk density:	no data available	
Water solubility: (at 20 °C)	soluble	
Solubility in other solvents Acids		
Partition coefficient:	no data available	
Viscosity / dynamic:	no data available	
Viscosity / kinematic:	no data available	
Flow time:	no data available	
Vapour density:	no data available	
Evaporation rate:	no data available	
Solvent separation test:	no data available	
Solvent content:	no data available	
9.2. Other information		
Solid content:	not applicable	
SECTION 10: Stability and reactivity	ty	

# 10.1. Reactivity

Corrosive to metals

# 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

To avoid thermal decomposition, do not overheat.

## 10.5. Incompatible materials

Incompatible with strong bases and oxidizing agents.

# 10.6. Hazardous decomposition products

Sulphur oxides



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## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

### Toxicocinetics, metabolism and distribution

Angaben zur Toxikologie liegen nicht vor.

#### Acute toxicity

No data is available on the product itself.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
10034-88-5	sodium hydrogensulphate					
		LD50 24 mg/kg	490	rat	IUCLID	

## Irritation and corrosivity

Causes skin and eye burns.

## 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

H372 - Causes damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

No aspiration toxicity classification

## Specific effects in experiment on an animal

sulphuric acid ... %: LD50/oral/rat = 2140mg/kg; LC50/inhalation/1h/mouse = 347ppm sodium hydrogensulphate: LD50/oral/rat = 2828mg/kg

#### **Further information**

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.

CAS No	Chemical name				
	Aquatic toxicity	Dose	[h]   [d] Species	Source	Method
10034-88-5	sodium hydrogensulphate				
	Acute crustacea toxicity	EC50 190 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 available

## 12.4. Mobility in soil

no data available

#### 12.5. Results of PBT and vPvB assessment

no data available



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## 12.6. Other adverse effects

Discharge into the environment must be avoided.

## **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

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

#### Waste disposal number of 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

## Waste disposal number of 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

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

Land transport (ADR/RID)	
<u>14.1. UN number:</u>	UN 3264
14.2. UN proper shipping name:	Corrosive liquid, acidic, inorganic, n.o.s. (Sulphuric Acid/Sodium Bisulphate solution)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Inland waterways transport (ADN)	
Other applicable information (inland wat Not tested	erways transport)
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 3264
14.2. UN proper shipping name:	Corrosive liquid, acidic, inorganic, n.o.s. (Sulphuric Acid/Sodium Bisulphate solution)
14.3. Transport hazard class(es):	8
<u>14.4. Packing group:</u> Marine pollutant: EmS:	III  F-A,S-B
Air transport (ICAO-TI/IATA-DGR)	
<u>14.1. UN number:</u>	UN 3264
14.2. UN proper shipping name:	Corrosive liquid, acidic, inorganic, n.o.s. (Sulphuric Acid/Sodium Bisulphate solution)
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	no



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## 14.6. Special precautions for user

Use personal protective equipment.

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

Not relevant

# Other applicable information

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 These transport data apply to the entire pack

## **SECTION 15: Regulatory information**

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

#### National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). 1 - slightly water contaminating

# Water contaminating class (D): 15.2. Chemical safety assessment

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

#### **SECTION 16: Other information**

## Changes

Revision: 2.02.2017 Safety datasheet sections which have been updated: 2, 11 Revision:28.05.2015 Safety datasheet sections which have been updated: 2, 11

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

May be corrosive to metals.
Causes severe skin burns and eye damage.
Causes serious eye damage.
Causes serious eye irritation.
May cause respiratory irritation.
Causes damage to organs through prolonged or repeated exposure.

## **Further Information**

The information is based on present level of our knowledge. It does not, however, give assurances 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.)