

## Safety Data Sheet

according to Regulation (EU) No. 1907/2006

### 1995-32 Molybdate 3 Reagent for Silica

Print date: 26.10.2009

Product code: 199532

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## 1. Identification of the substance/preparation and of the company/undertaking

### Identification of the substance or preparation

1995-32 Molybdate 3 Reagent for Silica

### Use of the substance/preparation

Water analysis

### Company/undertaking identification

Company name: HACH LANGE GmbH  
Street: Willstätterstr. 11  
Place: D-40549 Düsseldorf  
Telephone: +49 (0)211 5288-383  
e-mail: SDS@hach-lange.de  
Internet: www.hach-lange.com

Responsible Department: HACH LANGE Ltd.  
Pacific Way  
Salford Manchester M50 1DL - United Kingdom  
Tel. +44 (0) 161 872 1487  
e-Mail: info@hach-lange.co.uk

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

## 2. Hazards identification

### Classification

Indications of danger : Irritant  
R-phrases :  
Irritating to respiratory system.  
Risk of serious damage to eyes.

## 3. Composition/information on ingredients

### Chemical characterization ( Mixture )

### Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
231-791-2	7732-18-5	Water	60-70 %	
231-639-5	7664-93-9	sulphuric acid ... %	5-15 %	C R35
231-665-7	10034-88-5	Sodium hydrogen sulfate monohydrate	10-20 %	Xi R41
231-970-5	7782-91-4	Molybdic acid	5-15 %	Xn R36/37-48/20/22

Full text of each relevant R phrase can be found in heading 16.

## 4. First aid measures

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#### 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.

#### 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.

#### Advice to doctor

Treat symptomatically.

## 5. Fire-fighting measures

#### Suitable extinguishing media

water, carbon dioxide (CO<sub>2</sub>), dry chemical

#### Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases

Hazardous decomposition products formed under fire conditions.

#### Special protective equipment for fire-fighters

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.

## 6. Accidental release measures

#### Personal precautions

Use personal protective equipment.

#### Environmental precautions

Do not flush into surface water or sanitary sewer system.

#### Methods for cleaning up/taking up

Soak up with inert absorbent material and dispose of as hazardous waste.

## 7. Handling and storage

### 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.

### Storage

#### Requirements for storage rooms and vessels

Keep at temperatures between 10 and 25°C.

#### Advice on storage compatibility

Do not store together with oxidizing agents, solvent

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## 8. Exposure controls/personal protection

### Exposure limit values

### Exposure controls

#### Occupational exposure 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.

#### Respiratory protection

Ensure adequate ventilation, especially in confined areas.

#### 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

#### Eye protection

Safety glasses with side-shields

#### Skin protection

Avoid contact with skin, eyes and clothing.

## 9. Physical and chemical properties

### General information

Physical state: liquid  
Colour: colourless, light yellow  
Odour: none

### Important health, safety and environmental information

pH-Value (at 20 °C): < 0,5 Test method

#### Changes in the physical state

Melting point: not applicable  
Boiling point: 100 °C  
Flash point: > 100 °C

#### Explosive properties

not applicable

Water solubility: 1,2 - 1,3 g/cm<sup>3</sup> soluble  
(at 20 °C)

Solubility in other solvents: acids

## 10. Stability and reactivity

### Conditions to avoid

To avoid thermal decomposition, do not overheat.

### Materials to avoid

Incompatible with strong bases and oxidizing agents.

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#### Hazardous decomposition products

Sulphur oxides

#### Additional information

Stable under recommended storage conditions.

### 11. Toxicological information

#### Acute toxicity

None known.

#### Specific effects in experiment on an animal

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

Sodium hydrogen sulfate monohydrate: LD50/oral/rat = 2828mg/kg

#### Corrosive and irritant effects

The product causes irritation of eyes, skin and mucous membranes.

### 12. Ecological information

#### Ecotoxicity

No data is available on the product itself.

### 13. Disposal considerations

#### 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 dangerous substances, including mixtures of laboratory chemicals  
Classified as 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 dangerous substances, including mixtures of laboratory chemicals  
Classified as 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 dangerous substances, including mixtures of laboratory chemicals  
Classified as hazardous waste.

### 14. Transport information

#### Land transport (ADR/RID)

UN number: 3264  
ADR/RID class: 8  
Warning plate  
ADR/RID packing group: III

#### Description of the goods

Corrosive liquid, acidic, inorganic, n.o.s. (Sulphuric Acid/Sodium Bisulphate solution)

#### Inland waterways transport

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

Not tested

#### Marine transport

UN number: 3264  
IMDG code: 8  
Marine pollutant: --  
IMDG packing group: III  
EmS: F-A,S-B

#### Description of the goods

Corrosive liquid, acidic, inorganic, n.o.s. (Sulphuric Acid/Sodium Bisulphate solution)

#### Air transport

UN/ID number: 3264  
ICAO/IATA-DGR: 8  
ICAO packing group: III

#### Description of the goods

Corrosive liquid, acidic, inorganic, n.o.s. (Sulphuric Acid/Sodium Bisulphate solution)

#### 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 Number 3316, Package group II, EMS Code: F-A, S-P These transport data apply to the entire pack

## 15. Regulatory information

#### Labelling

Danger symbols: Xi - Irritant



Xi - Irritant

#### Hazardous component(s) to be indicated on label

sulphuric acid ... %  
Sodium hydrogen sulfate monohydrate

#### R phrases

37 Irritating to respiratory system.  
41 Risk of serious damage to eyes.

#### S phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
39 Wear eye/face protection.

#### Additional advice on labelling

Classification according to European directive on classification of hazardous preparations 1999/45/EC.

#### National regulatory information

Employment restrictions: Observe employment restrictions for young people.

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#### 16. Other information

##### Full text of R-phrases referred to under sections 2 and 3

- |          |  |
|----------|--|
| 35       | Causes severe burns.   |
| 36/37    | Irritating to eyes and respiratory system.   |
| 37       | Irritating to respiratory system.  |
| 41       | Risk of serious damage to eyes.  |
| 48/20/22 | Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. |

##### 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.

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