

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### 26034-49 Copper Masking Reagent

Print date: 20.07.2015

Product code: 2603449

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

### 1.1. Product identifier

26034-49 Copper Masking Reagent

### 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.  
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  
IRL-Dublin 12  
Tel. +353 (0)1 4602522  
e-Mail: info@hach-lange.ie

### 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

Hazard categories:  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2  
Specific target organ toxicity - single exposure: STOT SE 3  
Hazard Statements:  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

### 2.2. Label elements

#### Hazardous components which must be listed on the label

Sodium thiosulfate

Signal word: Warning

Pictograms:



#### Hazard statements

H315 Causes skin irritation.

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H319 Causes serious eye irritation.  
 H335 May cause respiratory irritation.

**Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P501 Dispose of contents/container to Disposal.

**Additional advice on labelling**

Classification according to European directive on classification of hazardous preparations 1999/45/EC.  
 The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

**2.3. Other hazards**

no data available

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

| CAS No    | Chemical name   |          |          | Quantity |
|-----------|---|----------|----------|----------|
|           | EC No   | Index No | REACH No |          |
|           | Classification according to Regulation (EC) No. 1272/2008 [CLP] |          |          |          |
| 7772-98-7 | Sodium thiosulfate  |          |          | 85-95 %  |
|           | 231-867-5   |          |          |          |
|           | Skin Irrit. 2, Eye Irrit. 2A, STOT SE 3; H315 H319 H335         |          |          |          |
| 150-90-3  | di-Sodium succinate anhydrous                                   |          |          | 5-15 %   |
|           | 205-778-7   |          |          |          |
|           | Acute Tox. 4; H302  |          |          |          |

Full text of H and EUH phrases: 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.  
 If skin irritation persists, call a physician.

**After contact with eyes**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.  
 Show this safety data sheet to the doctor in attendance.

**After ingestion**

If conscious, drink plenty of water. Call a physician immediately. Show this safety data sheet to the

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doctor in attendance.

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

irritant effects

**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.

**Unsuitable extinguishing media**

No Limit

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

Fire may liberate hazardous vapours.

In the event of fire the following can be released: Sodium oxides, Carbon oxides, Sulphur oxides

**5.3. Advice for firefighters**

In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. 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**

Sweep up or vacuum up spillage and collect in suitable container for disposal.

**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.

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**

Keep container tightly closed in a dry and well-ventilated place.

**Advice on storage compatibility**

Do not store together with Oxidizing agents

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**Further information on storage conditions**

Keep locked up or in an area accessible only to qualified or authorised persons.

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

Reagent for analysis

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****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.

**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.

**Eye/face protection**

Safety glasses with side-shields

**Hand protection**

Use barrier skin cream. 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.

**Skin protection**

Avoid contact with skin, eyes and clothing.

**Respiratory protection**

Provide adequate ventilation.

**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: | powder    |
| Colour:         | white     |
| Odour:          | odourless |

pH-Value (at 20 °C):

7,9 (5 % solution)

**Test method****Changes in the physical state**

|  |                   |                           |
|--|-------------------|---------------------------|
| Melting point:                           | 48 °C             | Decomposition temperature |
| Initial boiling point and boiling range: | not applicable    |                           |
| Sublimation point:                       | not applicable    |                           |
| Softening point:                         | not applicable    |                           |
| :  | no data available |                           |
| Flash point:                             | no data available |                           |
| <b>Flammability</b>                      |                   |                           |
| Solid:                                   | no data available |                           |
| Gas:                                     | not applicable    |                           |

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#### Explosive properties

not applicable

Lower explosion limits:

not applicable

Upper explosion limits:

not applicable

Ignition temperature:

no data available

#### Auto-ignition temperature

Solid:

no data available

Gas:

not applicable

Decomposition temperature:

no data available

#### Oxidizing properties

no data available

Vapour pressure:

not applicable

Vapour pressure:

not applicable

Density (at 20 °C):

2,22 g/cm<sup>3</sup>

Bulk density:

no data available

Water solubility:  
(at 20 °C)

soluble

#### Solubility in other solvents

no data available

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:

no data available

no data available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2. Chemical stability

The product is chemically stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

#### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

Exposure to moisture.

#### 10.5. Incompatible materials

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**10.6. Hazardous decomposition products**

Sodium oxides, Carbon oxides, Sulphur oxides

**Further information**

Stable under recommended storage conditions.

**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 routes               | Method | Dose        | Species | Source |
| 7772-98-7 | Sodium thiosulfate            |        |             |         |        |
|           | oral                          | LD50   | >5000 mg/kg | rat     | RTECS  |
| 150-90-3  | di-Sodium succinate anhydrous |        |             |         |        |
|           | oral                          | LD50   | >1200 mg/kg | rat     |        |

**Irritation and corrosivity**

May cause eye and skin irritation.

**Sensitising effects**

No known effect.

**STOT-single exposure**

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**Severe effects after repeated or prolonged exposure**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

Contains no ingredient listed as a carcinogen

**Aspiration hazard**

No aspiration toxicity classification

**Specific effects in experiment on an animal**

No toxicology information is available.

**Additional information on tests**

None known.

**Practical experience**

**Observations relevant to classification**

None known.

**Other observations**

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.

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| CAS No    | Chemical name       |        |            |           |                                  |
|-----------|---------------------|--------|------------|-----------|----------------------------------|
|           | Aquatic toxicity    | Method | Dose       | [h]   [d] | Species                          |
| 7772-98-7 | Sodium thiosulfate  |        |            |           |                                  |
|           | Acute fish toxicity | LC50   | 24000 mg/l | 96 h      | Gambusia affinis (Mosquito fish) |
|           |                     |        |            |           | IUCLID                           |

### 12.2. Persistence and degradability

No data is available on the product itself.

### 12.3. Bioaccumulative potential

no data available

#### Partition coefficient n-octanol/water

| CAS No    | Chemical name      | Log Pow |
|-----------|--------------------|---------|
| 7772-98-7 | Sodium thiosulfate | -4,35   |

### 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 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

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.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### Other applicable information (land transport)

Not subject to transport regulations.

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#### 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)

##### 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 MARPOL73/78 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 Number 3316, 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

##### 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 contaminating class (D): 1 - slightly water contaminating

#### 15.2. Chemical safety assessment

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

### SECTION 16: Other information

#### Changes

Revision: 26.05.2015

Safety datasheet sections which have been updated: 2, 4, 11

Revision: 10.10.2014

Safety datasheet sections which have been updated: 4 - 16

#### Relevant H- and EUH-phrases (Number and full text)

|      |                                   |
|------|-----------------------------------|
| H302 | Harmful if swallowed.             |
| H315 | Causes skin irritation.           |
| H319 | Causes serious eye irritation.    |
| H335 | May cause respiratory irritation. |

#### 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.)*