

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## Barium chloride solution 0,05 mol/l, 250 ml

Print date: 14.04.2015

Product code: 9991115

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

#### 1.1. Product identifier

Barium chloride solution 0,05 mol/l, 250 ml

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Use of the substance/mixture

Laboratory chemicals

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

##### Seller

Company name: CONATEX-DIDACTIC Lehrmittel GmbH  
Street: Im Forstgarten 1  
Place: D-66459 Kirkel  
Internet: www.conatex.com

##### Supplier

Company name: Carbolution Chemicals GmbH  
Street: Im Stadtwald, Gebäude A1.2  
Place: D-66123 Saarbrücken  
Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232  
e-mail: michael.bauer@carbolution-chemicals.de  
Internet: www.carbolution-chemicals.de

#### 1.4. Emergency telephone number:

+49 (0)681 302-71232

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Directive 67/548/EEC or 1999/45/EC

This mixture is not classified as hazardous according to Directive 1999/45/EC.

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

#### 2.2. Label elements

##### Additional advice on labelling

According to EC directives or the corresponding national regulations the product does not have to be labelled.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

| EC No        | Chemical name                                                   | Quantity  |
|--------------|-----------------------------------------------------------------|-----------|
| CAS No       | Classification according to Directive 67/548/EEC                |           |
| Index No     | Classification according to Regulation (EC) No. 1272/2008 [CLP] |           |
| REACH No     |                                                                 |           |
| 233-788-1    | barium chloride                                                 |           |
| 10361-37-2   | T - Toxic, Xn - Harmful R25-20                                  | 1 - < 5 % |
| 056-004-00-8 | Acute Tox. 3, Acute Tox. 4; H301 H332                           |           |

Full text of R-, H- and EUH-phrases: see section 16.

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#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

###### **After inhalation**

Provide fresh air.

###### **After contact with skin**

Wash with plenty of water. Change contaminated clothing.

###### **After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

###### **After ingestion**

Rinse mouth immediately and drink plenty of water.

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

No data available

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

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

The product itself does not burn.

##### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

###### **Additional information**

Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

#### SECTION 6: Accidental release measures

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

Avoid generation of dust. Do not breathe dust.

##### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal.

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

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

If handled uncovered, arrangements with local exhaust ventilation have to be used.

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

Only use the material in places where open light, fire and other flammable sources can be kept away.

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

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

Keep container tightly closed.

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

No data available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

| CAS No | Substance                         | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|--------|-----------------------------------|-----|-------------------|-----------|---------------|--------|
| -      | Barium compounds, soluble (as Ba) | -   | 0.5               |           | TWA (8 h)     | WEL    |
|        |                                   | -   | -                 |           | STEL (15 min) | WEL    |

#### 8.2. Exposure controls

##### Protective and hygiene measures

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

##### Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

##### Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

##### Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

##### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

### SECTION 9: Physical and chemical properties

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

|                 |                   |
|-----------------|-------------------|
| Physical state: | liquid            |
| Colour:         | colourless        |
| Odour:          | No data available |

#### Test method

|           |                   |
|-----------|-------------------|
| pH-Value: | No data available |
|-----------|-------------------|

##### Changes in the physical state

|                                          |                   |
|------------------------------------------|-------------------|
| Melting point:                           | 0000000 °C        |
| Initial boiling point and boiling range: | No data available |
| Sublimation point:                       | No data available |
| Softening point:                         | No data available |
| Flash point:                             | No data available |

##### Flammability

|        |                   |
|--------|-------------------|
| Solid: | No data available |
| Gas:   | No data available |

|                         |                   |
|-------------------------|-------------------|
| Lower explosion limits: | No data available |
| Upper explosion limits: | No data available |
| Ignition temperature:   | No data available |

##### Auto-ignition temperature

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|                          |                   |
|--------------------------|-------------------|
| Solid:                   | No data available |
| Gas:                     | No data available |
| Vapour pressure:         | No data available |
| Vapour pressure:         | No data available |
| Density:                 | No data available |
| Water solubility:        | 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 |
|----------------|-------------------|

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No data available

#### 10.3. Possibility of hazardous reactions

No data available

#### 10.4. Conditions to avoid

No data available

#### 10.5. Incompatible materials

Oxidizing agents, strong.

#### 10.6. Hazardous decomposition products

No data available

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Toxicokinetics, metabolism and distribution

Toxicological data are not available.

##### Acute toxicity

| CAS No     | Chemical name      |        |           |         |        |
|------------|--------------------|--------|-----------|---------|--------|
|            | Exposure routes    | Method | Dose      | Species | Source |
| 10361-37-2 | barium chloride    |        |           |         |        |
|            | oral               | LD50   | 118 mg/kg | Ratte   |        |
|            | inhalative vapour  | ATE    | 11 mg/l   |         |        |
|            | inhalative aerosol | ATE    | 1,5 mg/l  |         |        |

##### Irritation and corrosivity

No data available

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### Sensitising effects

No data available

### Severe effects after repeated or prolonged exposure

No data available

### Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fulfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

### Specific effects in experiment on an animal

No data available

### Additional information on tests

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

### Practical experience

### Observations relevant to classification

No data available

### Other observations

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

| CAS No     | Chemical name            |        |           |           |                |        |
|------------|--------------------------|--------|-----------|-----------|----------------|--------|
|            | Aquatic toxicity         | Method | Dose      | [h]   [d] | Species        | Source |
| 10361-37-2 | barium chloride          |        |           |           |                |        |
|            | Acute fish toxicity      | LC50   | 870 mg/l  | 96 h      | Leuciscus idus |        |
|            | Acute crustacea toxicity | EC50   | 21,9 mg/l | 48 h      | Daphnia magna  |        |

### 12.2. Persistence and degradability

No data available

### 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

### 12.6. Other adverse effects

No data available

### Further information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Advice on disposal

Dispose of waste according to applicable legislation.

#### Waste disposal number of waste from residues/unused products

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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

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances  
Classified as hazardous waste.

#### Contaminated packaging

Water (with cleaning agent). Completely emptied packages can be recycled.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

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

Not a hazardous material with respect to these transportation regulations.

#### Inland waterways transport (ADN)

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

Not a hazardous material with respect to these transportation regulations.

#### Marine transport (IMDG)

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

Not a hazardous material with respect to these transportation regulations.

#### Air transport (ICAO)

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

Not a hazardous material with respect to these transportation regulations.

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### SECTION 15: Regulatory information

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

##### EU regulatory information

##### Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

##### National regulatory information

Water contaminating class (D): - - not water contaminating

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### Relevant R-phrases (Number and full text)

20 Harmful by inhalation.  
25 Toxic if swallowed.

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

|      |                     |
|------|---------------------|
| H301 | Toxic if swallowed. |
| H332 | Harmful if inhaled. |

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