

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Formamide, 100 ml**

Print date: 14.04.2015

Product code: 9991351

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Formamide, 100 ml

CAS No: 75-12-7  
Index No: 616-052-00-8  
EC No: 200-842-0

**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**

Indications of danger: R2 - Repr. Cat. 2  
R phrases:  
May cause harm to the unborn child.

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

Hazard categories:  
Reproductive toxicity: Repr. 1B  
Hazard Statements:  
May damage the unborn child.

**2.2. Label elements****Hazardous components which must be listed on the label**

formamide

Signal word: Danger  
Pictograms: GHS08



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#### Hazard statements

H360D May damage the unborn child.

#### Precautionary statements

 P201 Obtain special instructions before use.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

 Sum formula: CH<sub>3</sub>NO

Molecular weight: 45,04

#### 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] |          |
| 200-842-0    | formamide   | 100 %    |
| 75-12-7      | Repr. Cat. 2 R61  |          |
| 616-052-00-8 | Repr. 1B; H360D ***   |          |

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After inhalation

Provide fresh air. Medical treatment necessary.

##### After contact with skin

Wash with plenty of water. Change contaminated clothing. Medical treatment necessary.

##### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.

#### 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.

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#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

#### 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. Do not breathe gas/fumes/vapour/spray.

##### 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. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

### 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 |
|---------|-----------|-----|-------------------|-----------|---------------|--------|
| 75-12-7 | Formamide | 20  | 37                |           | TWA (8 h)     | WEL    |
|         |           | 30  | 56                |           | STEL (15 min) | WEL    |

#### 8.2. Exposure controls

##### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

##### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. 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

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#### 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 (at 23 °C): | 7,1 |
|----------------------|-----|

#### Changes in the physical state

|  |                   |
|--|-------------------|
| Melting point:                           | 2 °C              |
| Initial boiling point and boiling range: | 210 °C            |
| Sublimation point:                       | No data available |
| Softening point:                         | No data available |
| Flash point:                             | 150 °C            |

#### Flammability

|                         |                   |
|-------------------------|-------------------|
| Solid:                  | No data available |
| Gas:                    | No data available |
| Lower explosion limits: | 2,7 vol. %        |
| Upper explosion limits: | 19 vol. %         |
| Ignition temperature:   | No data available |

#### Auto-ignition temperature

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

|                                |          |
|--------------------------------|----------|
| Vapour pressure:<br>(at 20 °C) | 0,11 hPa |
|--------------------------------|----------|

|                                |          |
|--------------------------------|----------|
| Vapour pressure:<br>(at 70 °C) | 1,29 hPa |
|--------------------------------|----------|

|          |                   |
|----------|-------------------|
| Density: | No data available |
|----------|-------------------|

|                   |                   |
|-------------------|-------------------|
| Water solubility: | No data available |
|-------------------|-------------------|

|                        |       |
|------------------------|-------|
| Partition coefficient: | -0,82 |
|------------------------|-------|

|                      |                   |
|----------------------|-------------------|
| Viscosity / dynamic: | No data available |
|----------------------|-------------------|

|                        |                   |
|------------------------|-------------------|
| Viscosity / kinematic: | No data available |
|------------------------|-------------------|

|            |                   |
|------------|-------------------|
| Flow time: | No data available |
|------------|-------------------|

|                 |      |
|-----------------|------|
| Vapour density: | 1,56 |
|-----------------|------|

|                   |                   |
|-------------------|-------------------|
| Evaporation rate: | No data available |
|-------------------|-------------------|

|                          |                   |
|--------------------------|-------------------|
| Solvent separation test: | No data available |
|--------------------------|-------------------|

|                  |                   |
|------------------|-------------------|
| Solvent content: | No data available |
|------------------|-------------------|

#### 9.2. Other information

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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

Toxic.

| CAS No  | Chemical name   |        |             |           |        |
|---------|-----------------|--------|-------------|-----------|--------|
|         | Exposure routes | Method | Dose        | Species   | Source |
| 75-12-7 | formamide       |        |             |           |        |
|         | oral            | LD50   | 5580 mg/kg  | Ratte     |        |
|         | dermal          | LD50   | 17000 mg/kg | Kaninchen |        |

#### Irritation and corrosivity

No data available

#### Sensitising effects

No data available

#### Severe effects after repeated or prolonged exposure

No data available

#### Carcinogenic/mutagenic/toxic effects for reproduction

May damage the unborn child.

#### 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

## SECTION 12: Ecological information

### 12.1. Toxicity

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No data available

#### **12.2. Persistence and degradability**

No data available

#### **12.3. Bioaccumulative potential**

No data available

#### **Partition coefficient n-octanol/water**

| CAS No  | Chemical name | Log Pow |
|---------|---------------|---------|
| 75-12-7 | formamide     | -1,51   |

#### **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**

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**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

#### **Land transport (ADR/RID)**

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

No dangerous good in sense of these transport regulations.

#### **Inland waterways transport (ADN)**

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

No dangerous good in sense of these transport regulations.

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#### Marine transport (IMDG)

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

No dangerous good in sense of these transport regulations.

#### Air transport (ICAO)

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

No dangerous good in sense of these transport 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

2004/42/EC (VOC): 100 %

##### Additional information

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

##### National regulatory information

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

### SECTION 16: Other information

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

61 May cause harm to the unborn child.

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

H360D May damage the unborn child.