

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Iodine/potassium iodide solution, 1 l**

Print date: 14.04.2015

Product code: 9991430

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

Iodine/potassium iodide solution, 1 l

**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]**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

**2.2. Label elements**

Signal word: Warning  
Pictograms: GHS07

**Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**Precautionary statements**

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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present and easy to do. Continue rinsing.

### 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     |  |             |
| 231-659-4    | Potassium iodide   | 10 - < 15 % |
| 7681-11-0    | Xn - Harmful, Xi - Irritant R22-36/38                                      |             |
|              | Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319                  |             |
| 231-442-4    | Iodine   | 5 - < 10 %  |
| 7553-56-2    | Xn - Harmful, N - Dangerous for the environment R20/21-50                  |             |
| 053-001-00-3 | Acute Tox. 4, Acute Tox. 4, Aquatic Acute 1 (M-Factor = 1); H332 H312 H400 |             |

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

## 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

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

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### 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

## 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 |
|-----------|-----------|-----|-------------------|-----------|---------------|--------|
| 7553-56-2 | Iodine    | -   | -                 |           | TWA (8 h)     | WEL    |
|           |           | 0.1 | 1.1               |           | 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).

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## 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

|  |                   |
|--|-------------------|
| 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

|                          |                   |
|--------------------------|-------------------|
| 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

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### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

Oxidizing agents, strong.

## 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 |
| 7681-11-0 | Potassium iodide   |        |             |         |        |
|           | oral               | ATE    | 500 mg/kg   |         |        |
| 7553-56-2 | iodine             |        |             |         |        |
|           | oral               | LD50   | 14000 mg/kg | Ratte   |        |
|           | dermal             | ATE    | 1100 mg/kg  |         |        |
|           | inhalative vapour  | ATE    | 11 mg/l     |         |        |
|           | inhalative aerosol | ATE    | 1,5 mg/l    |         |        |

#### 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

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

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| CAS No    | Chemical name            |        |           |           |                      |        |
|-----------|--------------------------|--------|-----------|-----------|----------------------|--------|
|           | Aquatic toxicity         | Method | Dose      | [h]   [d] | Species              | Source |
| 7553-56-2 | iodine                   |        |           |           |                      |        |
|           | Acute fish toxicity      | LC50   | 0,53 mg/l | 96 h      | Onchorhynchus mykiss |        |
|           | Acute crustacea toxicity | EC50   | 1,63 mg/l | 48 h      | Daphnia magna        |        |

### 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 |
|-----------|---------------|---------|
| 7553-56-2 | iodine        | 2,49    |

### 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

Do not allow to enter into surface water or drains. 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

Do not allow to enter into surface water or drains. 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)

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**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): 3 - highly 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)**

|       |   |
|-------|---|
| 20/21 | Harmful by inhalation and in contact with skin. |
| 22    | Harmful if swallowed.                           |
| 36/38 | Irritating to eyes and skin.                    |
| 50    | Very toxic to aquatic organisms.                |

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

|      |                                |
|------|--------------------------------|
| H302 | Harmful if swallowed.          |
| H312 | Harmful in contact with skin.  |
| H315 | Causes skin irritation.        |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled.            |
| H400 | Very toxic to aquatic life.    |

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