

according to Regulation (EC) No 1907/2006

o-Phosphoric acid, 85%, 1 I

Print date: 15.04.2015 Product code: 9991800 Page 1 of 8

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

#### 1.1. Product identifier

o-Phosphoric acid, 85%, 1 I

## 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** +49 (0)681 302-71232

number:

### **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: C - Corrosive

R phrases: Causes burns.

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

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B

Hazard Statements:

Causes severe skin burns and eye damage.

# 2.2. Label elements

Signal word: Danger Pictograms: GHS05



## **Hazard statements**

H314 Causes severe skin burns and eye damage.

# **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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



according to Regulation (EC) No 1907/2006

o-Phosphoric acid, 85%, 1 I

Print date: 15.04.2015 Product code: 9991800 Page 2 of 8

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### Hazardous components

EC No	Chemical name	Quantit
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
231-633-2	Phosphoric acid %; orthophosphoric acid	85 - < 90 °
7664-38-2	C - Corrosive R34	
015-011-00-6	Skin Corr. 1B; H314	

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.

#### After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

#### 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. Do NOT induce vomiting. Potential hazards: Stomach perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

## 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

Wear a self-contained breathing apparatus and chemical protective clothing. Full protective suit.

#### 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**



according to Regulation (EC) No 1907/2006

## o-Phosphoric acid, 85%, 1 I

Print date: 15.04.2015 Product code: 9991800 Page 3 of 8

#### 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/m³	fibres/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		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

### 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).



according to Regulation (EC) No 1907/2006

o-Phosphoric acid, 85%, 1 I

Print date: 15.04.2015 Product code: 9991800 Page 4 of 8

#### **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:

Sublimation point:

No data available

Softening point:

No data available

Flash point:

No data available

**Flammability** 

Solid:
Gas:
No data available
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 No data available Vapour pressure: No data available Vapour pressure: Density: No data available Water solubility: No data available Partition coefficient: No data available Viscosity / dynamic: No data available Viscosity / kinematic: No data available No data available Flow time: No data available Vapour density: Evaporation rate: No data available No data available Solvent separation test: No data available Solvent content:

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



according to Regulation (EC) No 1907/2006

## o-Phosphoric acid, 85%, 1 I

Print date: 15.04.2015 Product code: 9991800 Page 5 of 8

#### 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

## Toxicocinetics, metabolism and distribution

Toxicological data are not available.

#### **Acute toxicity**

Toxicological data are not available.

## Irritation and corrosivity

after ingestion: Irritant and corrosive effects. Potential hazards: Stomach perforation.

## 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 fullfills 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

## **SECTION 12: Ecological information**

## 12.1. Toxicity

CAS No	Chemical name									
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source				
7664-38-2	Phosphoric acid %; orthophosphoric acid									
	Acute fish toxicity	LC50	138 mg/l	96 h	Gambusia affinis					

## 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



according to Regulation (EC) No 1907/2006

## o-Phosphoric acid, 85%, 1 I

Print date: 15.04.2015 Product code: 9991800 Page 6 of 8

#### 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

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

# **SECTION 14: Transport information**

## Land transport (ADR/RID)

**14.1. UN number:** UN1805

14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION

14.3. Transport hazard class(es): 8
14.4. Packing group:

Hazard label:

Classification code:

C1

Limited quantity:

Transport category:

Hazard No:

Tunnel restriction code:

E

## Other applicable information (land transport)

E1

## Inland waterways transport (ADN)

**14.1. UN number:** UN1805

14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION

14.3. Transport hazard class(es): 8
14.4. Packing group:



according to Regulation (EC) No 1907/2006

o-Phosphoric acid, 85%, 1 I

Print date: 15.04.2015 Product code: 9991800 Page 7 of 8

Hazard label: 8
Classification code: C1
Limited quantity: 5 L

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

**14.1. UN number:** UN1805

14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Special Provisions:223Limited quantity:5 LEmS:F-A, S-B

Other applicable information (marine transport)

F1

Air transport (ICAO)

**14.1. UN number:** UN1805

14.2. UN proper shipping name: PHOSPHORIC ACID SOLUTION

14.3. Transport hazard class(es):814.4. Packing group:IIIHazard label:8Special Provisions:A3 A803Limited quantity Passenger:1 L

IATA-packing instructions - Passenger: 852
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 856
IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

E1 : Y841

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): 1 - slightly water contaminating

#### **SECTION 16: Other information**

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

34 Causes burns.





according to Regulation (EC) No 1907/2006

o-Phosphoric acid, 85%, 1 I

Print date: 15.04.2015 Product code: 9991800 Page 8 of 8

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

H314 Causes severe skin burns and eye damage.

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