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

• **Informations to product No. 7034**

• **Product name:**

**Phosphorsäure 85%**  
**Acidum phosphoricum concentratum 85%**  
**Phosphoric acid 85%**

• **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH  
 Herderstr. 31  
 40721 Hilden  
 Tel.: 02103/4994-0  
 Fax: 02103/32360  
 e-mail: info@caelo.de

• **Emergency telephone:**

Giftinformationszentrum Mainz  
 Langenbeckstr. 1, 55131 Mainz  
 Tel.: 06131/19240

• **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

• **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

## 2 Hazards identification

• **GHS-Labeling Elements:**



• **Signal word:** Danger

• **H-Phrases:**

H314 Causes severe skin burns and eye damage

• **P-Phrases:**

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

P301 IF SWALLOWED:

P330 Rinse mouth

P302 IF ON SKIN:


P353 Rinse skin with water/shower

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

P310 Immediately call a POISON CENTER or doctor/physician

**Skin Corr. 1B**

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### 3 Composition / information on ingredients

• **Chemical characterization:**

**CAS-No. Substance name**

7664-38-2 Phosphoric acid (85%)

• **EINECS-No.:** 231-633-2

• **Index-No.:** 015-011-00-6

• **REACH Reg. No.:** 01-2119485924-24-0001

• **INCI-Name:** Phosphoric Acid

**CAS-No. Substance name**

7732-18-5 Water (15%)

• **EINECS-No.:** 231-791-2

• **REACH Reg. No.:** Exempted from the obligation to register according to Annex 4 / 5 REACH-regulation.

• **INCI-Name:** Aqua

### 4 First aid measures


- **after inhalation:** not relevant.
- **after skin contact:** Remove contaminated clothing. Wash away with plenty of water.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open, seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Rinse mouth, drink plenty of water. Seek medical advice immediately.

### 5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Not combustible. In contact with metals hydrogen gas can be released (Explosion hazard!).
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

### 6 Accidental release measures

- **Personal protective measures:** Avoid dust formation and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Neutralize with sodium hydroxide solution or calcium carbonate. Absorb with liquid-binding material: Sand, silica gel, acid binder, universal binder, saw dust. Disposal according to Chapter 13 of this MSDS. Clean up with water.

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## 7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Dilute always with water and pour product in.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. Store at a good ventilated place. At room temperature (+15 bis +25°C).  
Acid-proof floor. Do not use metal containers

## 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **Respiratory protection:** Respiratory protection only if aerosols are formed..
- **Hand protection:** Protection gloves of rubber.
- **Eye protection:** Safety glasses.

## 9 Physical and chemical properties


- **Form:** liquid
- **Colour:** colourless
- **Odour:** odourless
- **Melting point / melting range:** < 0°C
- **Boiling point / boiling range:** ca. 158 °C
- **Vapour pressure:** not determined
- **Density:** (20 °C) 1,5-1,8 g/cm³
- **Solubility in / Miscibility with**
- **Water:** completely miscible.

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** Avoid strong heating.
- **Materials to avoid:** Metals (release of hydrogen gas ), Alkalines, Metal oxides.
- **Hazardous decomposition products:** Phosphorous oxide.
- **Additional information:** Hygroscopic. Incompatible with iron and iron compounds, steel, aluminium und their compounds.

## 11 Toxicological information

- **Acute toxicity:**
- LD/LD50-data relevant for hazard classification:**  
7664-38-2 Phosphoric acid  
Oral: LD50: 1530 mg/kg (rat)  
Dermal: LD50: 2740 mg/kg (rab)
- **Primary irritant effect:**
- **on skin:** Burning effect on skin and mucous membranes.
- **on eyes:** Strong burnings. Conjunctivitis.
- **after swallowing:** Strong burnings in mouth and throat, Danger of perforation of esophagus and stomach.

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• **Additional toxicological informations:** Aerosoles can cause burnings of the upper respiratory ways.

## 12 Ecological information

• **Aquatic toxicity:**

Toxic for water organisms: LC50: 100 mg/l/96h. Corrosive even in diluted state. Harmful effect due to pH-shifting.

• **General advices:** Water hazard class (german regulation) 1 (List classification): slightly hazardous for water Prevent from entering sewage water or drainage ditch undiluted or unneutralized. Phosphorous compounds can – depending on their concentrations – contribute to overfertilization of environmental waters.

• **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

## 13 Disposal considerations

• **Product:**

• **Recommendation:** Disposal according to local regulations as pharmaceutical waste or inorganic laboratory chemicals.

• **Empty contaminated packaging:**

• **Recommendation:** Disposal according to the local regulations.

## 14 Transport informations

• **Land transport according to ADR:**

• **Proper shipping name:** Phosphoric acid, solution

• **Class:** 8

• **UN-number:** 1805

• **Packing group:** III

• **Classification code:** C1

• **Limited quantities (Table 3.4.6. ADR):** 5 Liter

• **Hazard classification number:** 80

• **Special provisions (Chapter 3.3 ADR):** -

• **Additional informations for sea transport IMDG:**

• **EMS-No.:** F-A, S-B

• **Properties:** -

## 15 Regulatory information

• **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.


• **Hazard symbols:** GHS05

• **Signal word:** Danger

• **H-Phrases:**

H314 Causes severe skin burns and eye damage

• **P-Phrases:**

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• **National regulations (Germany):**

• **Water hazard class:** see chapter 12

• **Storage class TRGS 510:** 8B

• **VbF class:** -

## 16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

• **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.