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

- **Informations to product No. 7033**
- **Product name:**

**Acidum phosphoricum 25%**  
Verdünnte Phosphorsäure  
Diluted phosphoric acid

- **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 (25%)

- **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 (75%)

- **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:** 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.

### 7 Handling and storage

- **Handling:**
- **Advice on safe handling:** Dilute always with water and pour product in.
- **Storage:**

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· **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. 110 °C
- **Vapour pressure:** not determined
- **Density:** (20 °C) 1,15 g/cm<sup>3</sup>
- **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.
- **Additional toxicological informations:** Aerosol can cause burnings of the upper respiratory ways.

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## 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:** Prevent from entering sewage water or drainage ditch undiluted or unneutralized. Phosphorous compounds can – depending on their concentrations – contribute to overfertilization of environmental water.

- **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:**

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- **P-Phrases:**

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P351 Rinse continuously with water for several minutes

P310 Immediately call a POISON CENTER or doctor/physician

- **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.