

Safety Data Sheet  
According to Regulation (EU) 830/2015

1032 **ortho-Phosphoric Acid 85%**

**1. Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Name:

ortho-Phosphoric Acid 85%

**REACH Registration Number:** 01-2119485924-24-XXXX

**1.2 Relevant identified uses of the substance or mixture:**

For laboratory utilisation, analysis, research and fine chemistry.

**Used advised against:**

Not allowed its use for veterinary

**1.3 Identification of the company or firm:**

PANREAC QUIMICA S.L.U.

C/Garraf 2

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(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto:product.safety@panreac.com)

**1.4 Emergency telephone:**

Single telephone number for emergency calls: 112 (EU)

**2. Identification of dangers**

**2.1 Classification of the substance or the mixture.**

Skin Corr. 1B

**2.2 Label elements:**

**Hazard Pictograms**



## Signal word

### Hazard statements

H314 Causes severe skin burns and eye damage.

### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

## 2.3 Other hazards:

No further relevant information available.

## 3. Composition/information on ingredients

### 3.1 Substances

Name: ortho-Phosphoric Acid 85%

Formula: H<sub>3</sub>PO<sub>4</sub> M.= 98,00 CAS [7664-38-2]

EC number (EINECS): 231-633-2

EC index number: 015-011-00-6

REACH Registration Number: 01-2119485924-24-XXXX

### 3.2 Mixtures

## 4. First aid measures

### 4.1 Description of first aid measures

Never provide drink or induce vomiting in the event of loss of consciousness.

### 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Swallowing:

Drink large amounts of water. Avoid vomiting (there is a risk of perforation). Seek immediate medical assistance. Do not neutralize.

#### Inhaling:

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

**Contact with the skin:**

Wash with plenty of water. Remove contaminated clothing. In the event of irritation, seek medical assistance. Take the product out with cotton wool soaked in polyethylene-glycol 400.

**Eyes:**

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek medical assistance.

**5. Firefighting measures****5.1 Extinguishing media:**

As appropriate to the environment.

**5.2 Special hazards arising from the substance or mixture:**

Incombustible. Upon contact with metals, hydrogen gas may form (there is a risk of explosion). In the event of fire, toxic fumes may form. Do not allow extinguishing water into surface or underground water courses. Precipitate fumes formed with water.

**5.3 Advice for firefighters:**

Suitable clothing and footwear. Self-contained breathing equipment.

**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures:**

Do not inhale the fumes. Ensure adequate ventilation. Avoid contact with the skin, eyes or clothing.

**6.2 Environmental precautions:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

**6.3 Methods and material for containment and cleaning up:**

Collect up with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water. Neutralize with diluted sodium hydroxide.

**6.4 Reference to other sections**

Not applicable

**7. Handling and storage****7.1 Precautions for safe handling:**

Low temperatures can cause crystallization of the product (M.P.: 21 °C).

**7.2 Conditions for safe storage, including any incompatibilities:**

21 °C Keep at a temperature of over Well sealed containers. In well ventilated premises. Do not store in metal containers.

**7.3 Specific end use(s)**

No more relevant data available

**8. Exposure controls/personal protection**

### **8.1 Control parameters:**

VLA-EC: 2 mg/m<sup>3</sup> VLA-ED: 1 mg/m<sup>3</sup>

### **8.2 Exposure controls**

No special indications.

Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection.

Hand protection:

Use suitable gloves neopren PVC nitrile latex

Eye/face protection:

Use safety glasses.

Individual hygiene measures:

Remove contaminated clothing. Use suitable work clothing. Wash hands and face before breaks and when the job is done.

Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

## **9. Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Odourless.

pH: <0,5 ((100g/l))

Melting point/freezing point: 21 °C

Initial boiling point and boiling range: 158 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: 2,2 hPa (25 °C)

Vapour density: N/A

Relative density: (20/4) 1,71 g/ml

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

### **9.2 Other information**

No more relevant data available

## **10. Stability and reactivity**

### **10.1 Reactivity**

No specific data.

### **10.2 Chemical stability:**

Hygroscopic.

### **10.3 Possibility of hazardous reactions**

No specific data.

### **10.4 Conditions to avoid:**

High temperatures.

### **10.5 Incompatible materials:**

Alkaline compounds. Metals. (Hydrogen is formed). Metal oxides.

### **10.6 Hazardous decomposition products:**

Phosphorus oxides.

## **11. Toxicological information**

### **11.1 Information on toxicological effects**

Acute toxicity:

LD50 oral rat : 1.530 mg/kg

LD50 skn rbt : 2.740 mg/kg

Dangerous effects for health:

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products. If fumes inhaled: Irritations to the respiratory tracts.

Upon contact with the skin: burns Through contact with the eyes: burns conjunctivitis If swallowed: Burns in the digestive apparatus May cause: perforation in the oesophagus and stomach. shock spasms

## **12. Environmental information**

### **12.1 Toxicity:**

#### **- EC50 test (mg/l):**

Fish 100 mg/l

Classification:

Extr. toxic

#### **- Receptor medium:**

Risk for the water environment

High

Risk for the land environment

Medium

#### **- Observations:**

The ecotoxicity is due to the pH deviation.

Acute ecotoxicity in the dumping area.

### **12.2 Persistence and Degradability :**

#### **- Test:**

#### **- Biotic degradation classification:**

BOD5/COD

Biodegradability

#### **- Abiotic degradation depending on pH:**

#### **- Observations:**

Does not consume oxygen biologically.

### **12.3 Bioaccumulative potential:**

- **Test:**

- **Bioaccumulation:**

Risk

- **Observations:**

Non-bioaccumulable product.

### **12.4 Mobility in soil :**

Data not available.

### **12.5 Assessment PBT and MPMB :**

Data not available.

### **12.6 Other adverse effects:**

Due to the presence of phosphorus, eutrophy can be encouraged in waste disposal areas.

Do not allow it to enter soils or water channels.

## **13. Disposal considerations**

### **13.1 Waste treatment methods:**

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

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Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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## **14. Transport information**

**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**

ADR/IMDG: III

IATA: III

**14.5 Environmental hazards****14.6 Special precautions for user**

Not applicable

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable

**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical safety assessment**

Not applicable

**16. Other information****Other precautionary statements**

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

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In respect of the previous review, changes have been made to the following sections: 1,2,4,5,6,7,8,9,10,11,13,14,15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.