

Safety Data sheet

According to Directive 1907/2006

0871 orto-PHOSPHORIC ACID 50% w/w

Creation Date: 01/12/2010 Revision date: 31/05/2017

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 0871 Product name: orto-PHOSPHORIC ACID 50% w/w Use of the substance: Analysis and chemical-pharmaceutical production. REACH registration Nr.: 01-2119485924-24-0000

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

34 Causes burns.

S-phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

45 In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where poss

Labelling in accordance with directive 1272/2008



H-phrases

314 Causes severe skin burns and eye damage.

P-phrases

309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

305+351 If in eyes: Rinse cautiously with water for several minutes.

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

Signal word : DANGER

CORROSIVE

R-phrases:

Causes burns.

3. Composition/information on ingredients

Short hazard description

orto-PHOSPHORIC ACID 85% w/w (CAS-Nr. 7664-38-2, EINECS-Nr. 231-633-2) 50-51%

R-Phrases: 34

CORROSIVE

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 7664-38-2

Molecular Weight: 98,00

Chemical formula: H_3PO_4

EC-No.: 231-633-2

R-phrases 34

For more information about the R-Phrases text you can consult the paragraph 16

4. First aid measures

After inhalation:

Fresh air

Call the physician

After skin contact:

Rinse with abundant water (or have a shower)

Extract the substance by means of cotton impregnated with polietilenglicol 400

Get rid of the contaminated clothes

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

Call the ophthalmologist

After swallowing:

Drink several liters of water and avoid vomit (perforation risk)

Call the doctor

Do not carry out neutralization measures

5. Fire-fighting measures

Suitable extinguishing media:

Adapt the materials of the surroundings

Special risks:

Fireproof

Ambient fire may liberate hazardous vapours

The following may develop in event of fire: phosphorus oxides

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

Other information:

Precipitate emergent steam with water

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Not to inhale steam/aerosols
Avoid contact with the substance
Ventilation in closed spaces

Procedures for cleaning/absorption:

Take up with liquid-absorbent and neutralizing material
To come to the elimination of the remainders
Rinse.

Environmental protection measures:

Do not allow that the product gets to the environment

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed
In well-ventilated place
Storage temperature: without limits
Do not use metallic containers

8. Exposure controls/personal protection

Exposure limit control

orto-PHOSPHORIC ACID 85% w/w

TLV-TWA: 1 mg/m³. TLV-STEL: 2 mg/m³.

Personal protective equipment:

Respiratory protection:

Necessary when steam/aerosols are generated

Hand protection:

Needed

Protection gloves:

Nitrile rubber

Eye protection:

Needed

Skin and body protection:

Protective clothing against acid

Other protective equipment:

Change immediately contaminated clothes

Recommendable preventive protection of the skin

Wash hands and face when the work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Liquid

Colour: Colourless

Odour: Odourless

pH value: <0,5 (100 g/l H₂O)
Density (g/cm³): 1,350
Solubility: Soluble (water)

10. Stability and reactivity

Substances to be avoided:

Metal and metal alloys.
Metal oxides.

Hazardous decomposition products:

Phosphorus oxides.

Further information:

Incompatible with various metals and metal alloys.
Hydrogen may form upon contact with metals.
Danger of explosion.

11. Toxicological information

Acute toxicity:

LD₅₀ (dermal, rabbit): 2740 mg/kg (pure substance)

After eye contact:

Conjunctivitis
Burns
Risk of blindness

After skin contact:

Burns

After inhalation:

Irritation of: respiratory tract

After swallowing:

Burns in the digestive tract
Stomach pains
Risk of perforation in stomach
Risk of perforation in the oesophagus
Spasms
Shock

Further toxicological information:

Other dangerous characteristics are not discarded
Take the usual precautions for handling chemical products

12. Ecological information

Fishes: *Gambusia affinis* LC₅₀: 138 mg/l /96 h (pure substance)

Other harmful effects:

Harmful effect on aquatic organisms
Caustic even in diluted form
Harmful effect due to pH shift
Acute ecotoxicity in the dumping area
Does not cause biological oxygen deficit
Do not allow to enter waters, waste water, or soil

13. Disposal considerations

Product:

Dispose as regulated in the communitary countries by local regulations.
Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.
For contaminated packaging the same measures must be adopted as for the contaminated product.
Not contaminated packaging must be disposed of as domestic residues or recycled material.
European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

UN: 1805
Class: 8
Packaging group: III
Correct technical name: PHOSPHORIC ACID, SOLUTION

Sea transport IMDG

UN: 1805
Class: 8/III
Packaging group: III
Correct technical name: PHOSPHORIC ACID, SOLUTION

Air transport ICAO-IATA-DGR

UN: 1805
Class: 8
Packaging group: III
Correct technical name: PHOSPHORIC ACID, SOLUTION
CAO: 856
PAX: 852

15. Regulatory information

16. Other information

Full text of R phrases mentioned in sections 2 and 3

34 Causes burns.

The information contained herein is based on the present state of our knowledge.

It characterizes the product with regard to appropriate safety precautions. It does not represent a guaranty of the properties of the product.