

PHOSPHORIC ACID

PRAYPHOS-001



C : Corrosive



8 : Corrosive substance.

Danger



Producer

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Synonyms

Orthophosphoric acid
E338
PRAYPHOS (P5, CODEX)

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Company identification	: See producer.
e-mail address of the competent person responsible for the Safety Data Sheet	: Reachcustomer@prayon.be
Trade name	: PHOSPHORIC ACID
Use	: Food additive Intermediate, formulation of mixtures of diluted acid for metal treatment, detergent & cleaning agent, processing aid, fertilizers, construction sector.
Chemical formula	: H3PO4
Type of product	: Acid
Reach number recording	: 01-2119485924-24-0021

2. HAZARDS IDENTIFICATION

Hazards identification (CLP)	H314 : Causes severe skin burns and eye damage. : R34 : Causes burns.
Hazards identification	: Corrosive Causes burns whose gravity depends upon concentration and contact length of time.
- Inhalation	: Aerosol exposure may cause irritation to the respiratory tract (laryngeal pain, mucous damage). In serious case respiratory problems and late oedema pulmonar).
- Skin contact	: Corrosive to skin. Causes burns.
- Eye contact	: Causes serious eye burns.
- Ingestion	: Cause burns or irritation of the linings of the mouth and superior gastrointestinal tract.



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3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCES INCLUDED IN THE LIST OF DANGEROUS SUBSTANCES (ANNEX VI OF DIRECTIVE N° 1272/2008)

Substance name	Contents	CAS No	EC No	Annex No	Classification
Phosphoric acid	30 to 85 %	7664-38-2	231-633-2	015-011-00-6	C; R34
					Skin Corr. 1B

4. FIRST AID MEASURES

First aid

- **Eye contact** : In case of eye contact, immediately rinse with clean water for 20-30 minutes.
Seek medical advice
- **Skin contact** : Remove contaminated clothing and shoes.
In case of skin contact, immediately wash with suitable product and rinse with plenty of water (20-30 min).
Wash clothing before re-using.
Seek medical advice
- **Inhalation** : If breathing is difficult, give oxygen.
If breathing stops, perform cardio pulmonary resuscitation (CPR).
Seek medical advice
- **Ingestion** : If swallowed, rinse mouth with water (only if the person is conscious).
Do not induce vomiting.
Seek medical advice

5. FIRE-FIGHTING MEASURES

- Flammable class** : Not flammable.
- **Suitable extinguishing media** : CO2 Powder Foam. Water spray.
- **Unsuitable extinguishing media** : Do not use a heavy water stream.
- Specific hazards** : Contact with metals produces hydrogen which may form explosive mixtures with air.
- Protection against fire** : Wear complete protective anti-acid clothings, gloves and boots. Use an autonomous respiratory protection.
(section 8)
Use water spray/fog for cooling.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Spill should be handled by trained cleaning personnel properly equipped with anti-acid protective clothing, gloves and boots (see section 8).
Keep public away from danger area.
- Environmental precautions** : Prevent entry to sewers and waters.
Avoid soil contamination.
- After spillage and/or leakage** : Ventilate area.
Transfer in an appropriate container properly labelled in order to set up a future treatment.
Neutralize with sodium carbonate, calcium carbonate, or lime.
Rinse with plenty of water.

7. HANDLING AND STORAGE

- Storage** : Store at room temperature above crystallization point.
Keep in a cool, well ventilated place.
Preferred storage containers included stainless steel or certain reinforced plastics.
Store in tightly closed containers.
Keep away from alkalis, sulfides, cyanides and metal powders.

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7. HANDLING AND STORAGE (continued)

Handling : Wash hands plentifully and other exposed areas with water after handling.
Avoid contact with skin and eyes.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- **Hand protection** : Use gloves resistant to chemical products corresponding to "EN 374:3". Take advice to gloves' .
 - **Skin protection** : Wear protective clothing adapted to the risks of acid projection and acidproof (tests of resistance according to EN 368-369).
Wear impervious rubber safety shoes.
 - **Eye protection** : Chemical goggles or face shield with safety glasses according EN 166.
 - **Respiratory protection** : Use only in well ventilated areas.
Where excessive aerosol or vapour may result, wear an approved respiratory protection (with filter corresponding to "EN 143").
 - **Others** : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential contact.
- TLV-STEL [mg/m³] : 3
8 Hour TLV-TWA [mg/m³] : 1

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Viscous liquid.
- Colour** : Colourless.
- Odour** : Odourless.
- pH value** : 0
- Molecular weight** : 98
- Melting point [°C]** : 30% : -11.8 °C
50% : - 41.9 °C
62.5% : - 85 °C
70% : - 43 °C
85% : + 21.1 °C
- Boiling point [°C]** : 30% : 101.8 °C
50% : 108°C
85% : 158°C
- Density (g/cm³)** : 30 % : (to 25 °C) 1.1794 g/cm³
50% - 85% : (to 25 °C) 1.3334 - 1.6850 g/cm³
- Vapour pressure [hPa]** : Not applicable
- Viscosity** : 30% - 85% : (to 30 °C) 2.0 - 32 mPa.s
- Solubility in water** : 100%
- Flash point [°C]** : Not flammable.
- Crystallization point [°C]** : 75% : - 20 °C
80% : 4 °C
81.5% : 7 °C
85% : 21 °C

10. STABILITY AND REACTIVITY

- Hazardous reactions** : Reacts with strong bases.
Contact with metals may release flammable hydrogen.
- Stability and reactivity** : Stable under normal conditions of handling and storage.
- Hazardous properties** : Contact with sulfides and cyanides liberates toxic gas.
- Hazardous decomposition products** : May liberate toxic gases.

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11. TOXICOLOGICAL INFORMATION

Rabbit dermal LD50 [mg/kg] : -
Rat inhalation LC50 [mg/kg] : -
Rat oral LD50 [mg/kg] : > 2000 mg/kg
TCLo Human Inhalation (mg/m3) : -

12. ECOLOGICAL INFORMATION

Ecological effects information : Phosphates are plant nutrient and as such may contribute to the growth of phytoplanktons in water.
LC50-96 Hour - fish [mg/l] : -
48 H-LC50 - Daphnia magna [mg/l] : -
IC50 72h Algae [mg/l] : -
WGK class (Germany) : 1

13. DISPOSAL CONSIDERATIONS

Disposal : Neutralize with sodium carbonate, calcium carbonate, or lime.
Comply with local regulations for disposal.
Packaging : WHEN TOTALLY EMPTY, containers are recyclable like any other packing.
Storage containers must be free of contamination before use.
Dispose in a safe manner in accordance with local/national regulations.

14. TRANSPORT INFORMATION

Labelling ADR



: C : Corrosive
Transport hazard symbol : 8

UN No.

: 1805

- ADR/RID/ADNR/IMO-IMDG

: Class 8

H.I. nr

: 80

- Packing group

: III

Tunnel code : E : Passage forbidden through tunnels of category E. III Code tunnel : (E)

- IMDG-Marine pollution

: No.

15. REGULATORY INFORMATION

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

Hazard Class and Category Code

• Health hazards : Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B)

Labelling

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15. REGULATORY INFORMATION (continued)

• Hazard pictograms



- Signal words : Danger
- Hazard statements : H314 : Causes severe skin burns and eye damage.
- Precautionary statements
- Prevention : P234 : Keep only in original container.
P260 : Do not breathe dust, fume, gas, mist, vapours, spray.
P280 : Wear protective gloves, protective clothing, eye protection, face protection.
 - Response : P310 : Immediately call a POISON CENTER or doctor.
P301+P330+P331 : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+P351+P338 : IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353 : IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.

European Communities

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006.

Directive 2006/121/EC of the European Parliament and of the Council of 18 December 2006.

EC Labelling

EC Classification : C; R34

Symbol(s)



- R Phrase(s) : R34 : Causes burns.
- S Phrase(s) : S24 : Avoid contact with skin.
S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 : After contact with skin, wash immediately with suitable product and water.
S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

16. OTHER INFORMATION

- Further information : Specific concentration limits (annex VI)
Concentration $\geq 10\%$ - $< 25\%$:
classification CLP
GHS 07
Skin corr. Cat.2
H315 : causes skin irritation
Eyes Corr. Cat. 2
H319 : Causes serious eyes irritation
- Risk Phrases : R34 : Causes burns.

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

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