



Serving Scientific Community
Since 1985



TECHNO PHARMCHEM

An ISO 9001 : 2008 Certified Company

Registered Off. : 101-A, Deep Enclave, Pocket 'D', Ashok Vihar, Phase-III, Delhi-110 052 (India)
Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com
Website : www.technopharmchem.com

MATERIAL SAFETY DATA SHEET

ORTHOPHOSPHORIC ACID

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

1.1. Product identifier

Trade name: ORTHOPHOSPHORIC ACID

Product Code: 32501, 32502

Identification of the product: Phosphoric acid

CAS No: 7664-38-2

EC No: 231-633-2

Index No: 015-011-00-6

Chemical Formula : H_3PO_4

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use: Industrial. For professional use only

1.3. Details of the supplier of the safety data sheet

Company identification: Techno Pharmchem

Contact: +91 11 23646422 / info@technopharmchem.com

1.4. Emergency telephone number

Phone: + 91 11 23646422 (9:30am - 5:30 pm) [Office hours]

2. Hazards identification

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : C; R34

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318

Skin corrosion - Category 1B - Danger (CLP: Skin Corr. 1B) H314

2.2. Label elements

Labelling Regulations EC 1272/2008 (CLP)

Hazard statements : H314: Corrosive

Precautionary statements

- General : P102: Keep out of reach of children.
P103: Read label before use.
P101: If medical advice is needed, have product container or label at hand.



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- Prevention: P280: Wear protective gloves, protective clothing, eye protection, face protection.
P260: Do not breathe dust, fume, gas, mist, vapors, spray.
P264: Wash thoroughly after handling.
 - Response: 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.
P363: Wash contaminated clothing before reuse.
 - Storage: P405: Store locked up.
 - Disposal considerations: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local,regional, national and/or international regulation.
- Contains: Phosphoric acid

2.3. Other hazards

Other hazards: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : Phosphoric acid
CAS No : 7664-38-2
EC No : 231-633-2
Index-No. : 015-011-00-6

Substance name	Contents	CAS No	EC No	Index No.
Phosphoric acid	85%	7664-38-2	231-633-2	015-011-00-6
Water	15%	7732-18-5	231-791-2	

Contains no other components or impurities which will influence the classification of the product



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4. First aid measures

4.1 Description of first aid measures

General advice	: Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.
In case of eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Corrosive

4.3 Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell seek medical advice (show the label where possible)

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand
Unsuitable extinguishing media : Do not use a heavy water stream.
Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.
Thermal decomposition generates : Corrosive vapors.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.



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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Handling : Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapors, spray.

Technical protective measures formation : Provide good ventilation in process area to prevent of vapors.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.

Storage regulation : Comply with applicable regulations.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight

7.3. Specific end use(s)

Specific end use(s) : None.

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

Respiratory protection : Wear approved mask.

Hand protection : Wear protective gloves.

Skin protection : Wear suitable protective clothing.

Eye protection : Chemical goggles or face shield.

Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20°C	: Liquid.
Colour	: Clear Colorless
Odour	: Odorless
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: 40 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 158 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: 0.03 mm Hg @ 200C
Vapour density	: 3.4
Density [g/cm ³]	: 1.685 g /cm ³ at 25°C
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Completely miscible
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Viscosity at 40°C [mm ² /s]	: N/A

10. Stability and reactivity

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures

10.5. Incompatible materials

Materials to avoid : Strong bases, powdered metals

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.

Thermal decomposition generates : Corrosive vapors.

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11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: no data available
Skin corrosion/irritation	: no data available
Serious eye damage/eye irritation	: no data available
Respiratory or skin sensitization	: no data available
Germ cell mutagenicity	: no data available
Carcinogenicity	: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	: no data available
Specific target organ toxicity - single exposure	: no data available
Specific target organ toxicity - repeated exposure	: no data available

12. Ecological information

12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.



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14. Transport information

14.1 UN number

ADR/RID : 1805

IMDG : 1805

IATA : 1805

14.2 UN proper shipping name

ADR/RID : PHOSPHORIC ACID SOLUTION

IMDG : PHOSPHORIC ACID SOLUTION

IATA : PHOSPHORIC ACID SOLUTION

14.3 Transport hazard class(es)

ADR/RID : 8

IMDG : 8

IATA : 8

14.4 Packaging group

ADR/RID : III

IMDG : III

IATA : III

14.5 Environmental hazards

ADR/RID : no

IMDG Marine pollutant : no

IATA : no

14.6 Special precautions for user

No data available

15. Regulatory information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

Product Use : Laboratory Reagent for Educational & Research Purposes