Material Safety Data Sheet	MOLYCHEM
ORTHOPHOSPHORIC ACID	VERSION: 03 DATE OF ISSUE: 31-01-2022 SUPERSEDES: 02
Product Code : 16690	Page 1 of 9

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

1.1. Product identifier

Trade name: ORTHOPHOSPHORIC ACID

Product code: 16690

Identification of the product: Phosphoric acid

CAS No: 7664-38-2

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: MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA)

Tel:+91 22 4066 8111, 2205 7772 . Fax: +91 22 2203 4442.

Email: info@molychem.net

Works: Plot No. B/9, Badlapur M.I.D.C., OPP. Shobhavat Textile Co.,

Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number: +91 22 4066 8111 (10:00am - 6:00 pm).

2. Hazards identification -DSD

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 EC 67/548 or EC 1999/45

Symbol(s): C : Corrosive



R Phrase(s): R34: Causes burns.

S Phrase(s): S1/2: Keep locked up and out of reach of children.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protecting clothing and gloves & eyes/face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).

Labelling Regulation EC 1272/2008 (CLP)

Material Safety Data Sheet	MOLYCHEM
ORTHOPHOSPHORIC ACID	VERSION: 03 DATE OF ISSUE: 31-01-2022 SUPERSEDES: 02
Product Code : 16690	Page 2 of 9

Hazard pictograms



Signal words: Danger

Hazard statements: H314: Causes severe skin burns and eye damage.

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.

• **Prevention**: P280: Wear protective gloves, protective clothing, eye protection, face protection.

P260: Do not breathe dust, fume, gas, mist, vapours, 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.

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

Substance.

Substance nameContentsCAS NoPhosphoric acid :100 %7664-38-2

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

4. First aid measures

4.1. Description of first aid measures

Material Safety Data Sheet	MOLYCHEM
ORTHOPHOSPHORIC ACID	VERSION: 03 DATE OF ISSUE: 31-01-2022 SUPERSEDES: 02
Product Code : 16690	Page 3 of 9

Inhalation: Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.

Skin contact: Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing.

Eye contact: Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Rinse mouth.

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

Symptoms relating to use: Causes severe skin burns and eye damage.

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 vapours.

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.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders: Equip cleanup crew with proper protection. Ventilate area.

For non-emergency personnel: Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public water.

6.3. Methods and material for containment and cleaning up

Material Safety Data Sheet	MOLYCHEM
ORTHOPHOSPHORIC ACID	VERSION: 03 DATE OF ISSUE: 31-01-2022 SUPERSEDES: 02
Product Code : 16690	Page 4 of 9

Clean up methods: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

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, vapours, spray.

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

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.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance: Clear. Viscous liquid.

Molecular mass: 98 g/mol **Colour**: Clear colourless.

Odour: Odourless.

pH: 1.5

Relative evaporation rate (butylacetate =1): no data available)

Material Safety Data Sheet	MOLYCHEM
ORTHOPHOSPHORIC ACID	VERSION: 03 DATE OF ISSUE: 31-01-2022 SUPERSEDES: 02
Product Code : 16690	Page 5 of 9

Melting point : Not applicable

Freezing point : 21 °C Boiling point : 158 °C

Flash point : No data available

Auto-ignition temperature: No data available

Decomposition temperature: 300 °C **Flammability (solid, gas)**: Not applicable

Vapour pressure: 2 hPa at 20°C

Relative vapour density at 20 °C : 3.4 (Air = 1.0)

Relative density: No data available

Density : 1.685 g/cm³

Solubility: Water: Completely miscible

Partition coefficient n-octanol/water: No data available

(Log Pow): No data available

Viscosity, kinematic: 30.5 mm²/s at 20°C Viscosity, dynamic: No data available Explosive properties: No data available Oxidising properties: No data available Explosive limits: No data available

9.2. Other information Explosive properties : N/A

Explosion limits - upper [%] : N/A Explosion limits - lower [%] : N/A Oxidising properties : No data available.

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 acids. Strong bases. **10.6.** Hazardous decomposition products

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

Thermal decomposition generates: Corrosive vapours.

MOLYCHEM Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA) Tel: +91 22 4066 8111, 2205 7772 . Fax: +91 22 2203 4442. Email: info@molychem.net Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile Co., Kulgaon, Badlapur (E), Dist.-Thane-421 503

Material Safety Data Sheet	MOLYCHEM
ORTHOPHOSPHORIC ACID	VERSION: 03 DATE OF ISSUE: 31-01-2022 SUPERSEDES: 02
Product Code : 16690	Page 6 of 9

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

- Inhalation : Based on available data, the classification criteria are not met.
- **Dermal**: Based on available data, the classification criteria are not met.
- **Ingestion**: Based on available data, the classification criteria are not met.

Corrosion: Causes severe skin burns and eye damage. Causes serious eye damage.

Irritation: Based on available data, the classification criteria are not met.

Sensitization: Based on available data, the classification criteria are not met.

Mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Toxic for reproduction: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

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

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.

Material Safety Data Sheet	MOLYCHEM
ORTHOPHOSPHORIC ACID	VERSION: 03 DATE OF ISSUE: 31-01-2022 SUPERSEDES: 02
Product Code : 16690	Page 7 of 9

14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name: PHOSPHORIC ACID, SOLUTION

UN N°: 1805 H.I. nr: 80 ADR - Class: 8

Labelling - Transport: 8 : Corrosive substance.

ADR - Classification code: C1

ADR - Group : III

ADR - Packing instructions: P001 R001 LP001

ADR - Limited Quantity: 5 L

ADR - Tunnel code : E : Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name: PHOSPHORIC ACID, SOLUTION

UN N°: 1805

IMO-IMDG - Class or division: 8 : Corrosive substance.

IMO-IMDG - Packing group : III

IMO-IMDG - Packing instructions: P001 LP01

IMO-IMDG - Limited quantities : 5 L IMO-IMDG - Marine pollution : No

EMS-Nr : F-A S-B

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name: PHOSPHORIC ACID, SOLUTION

UN N°: 1805

IATA - Class or division: 8 : Corrosive substance.

IATA - Packing group : III

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing: 852

instruction

- Passenger and Cargo - Maximum: 5 L

Quantity/Packing

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction: 856- Cargo only - Maximum Quantity/: 60 L

Packing

IATA - Limited Quantites : 1 L

ERG-Nr: 8L

Material Safety Data Sheet	MOLYCHEM
ORTHOPHOSPHORIC ACID	VERSION: 03 DATE OF ISSUE: 31-01-2022 SUPERSEDES: 02
Product Code: 16690	Page 8 of 9

15. Regulatory information

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

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

REACH Restrictions - Annex XVII: The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV: The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment: It has not been carried out.

16. Other information

Further information: None.

Abbreviations and acronyms: PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used: 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

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End of document

Prepared by: MOLYCHEM (INDIA)

For questions contact: MOLYCHEM

Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor, Mumbai – 400 002 (INDIA)

Tel: +91 22 4066 8111, 2205 7772 . Fax: +91 22 2203 4442.

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Material Safety Data Sheet	MOLYCHEM
ORTHOPHOSPHORIC ACID	VERSION: 03 DATE OF ISSUE: 31-01-2022 SUPERSEDES: 02
Product Code : 16690	Page 9 of 9

Kulgaon, Badlapur (E), Dist.-Thane-421 503

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