

Material Safety Data Sheet (MSDS)

Product Name: Phosphoric Acid Food Grade-Vietnam

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Phosphoric Acid Food Grade
- **Synonyms:** Orthophosphoric Acid, E338 (Food Additive)
- **CAS Number:** 7664-38-2
- **EC Number:** 231-633-2
- **Food Grade:** Yes

2. Composition / Information on Ingredients

- **Phosphoric Acid:** CAS Number 7664-38-2, Concentration 75–85%
- **Water:** CAS Number 7732-18-5, Balance

3. Hazard Identification

- **GHS Classification:**

- Corrosive to metals (Category 1)
 - Skin corrosion/irritation (Category 1B)
 - Serious eye damage/eye irritation (Category 1)
- **Hazards:**
 - Causes severe skin burns and eye damage
 - Harmful if swallowed in concentrated form
 - May react with metals producing flammable hydrogen gas

4. First-Aid Measures

- **Inhalation:** Move to fresh air, seek medical attention if symptoms persist.
- **Skin Contact:** Wash immediately with plenty of water for at least 15 minutes; remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for several minutes; remove contact lenses; seek medical attention immediately.
- **Ingestion:** Do not induce vomiting; rinse mouth with water; seek medical attention immediately.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical powder, CO₂.
- **Unsuitable Extinguishing Media:** Do not use solid water stream; may spread fire.
- **Special Hazards:** Emits toxic fumes (phosphorus oxides) when heated.
- **Protective Equipment:** Wear full protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures

- Evacuate area; wear protective equipment.
- Contain spillage; neutralize with lime, soda ash, or sodium bicarbonate.
- Absorb with inert material and place in suitable waste containers.

- Avoid release into water bodies.

7. Handling and Storage

- **Handling:** Avoid contact with skin, eyes, and clothing; use proper PPE.
- **Storage:** Store in a cool, dry, well-ventilated area; keep container tightly closed; separate from metals, bases, and oxidizing agents.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation; use fume hoods if necessary.
- **Personal Protective Equipment (PPE):**
 - Gloves: Acid-resistant
 - Goggles/Face shield: Yes
 - Clothing: Acid-resistant apron and boots
 - Respiratory Protection: If ventilation is inadequate

9. Physical and Chemical Properties

- **Appearance:** Clear, colorless to slightly yellow liquid
- **Odor:** Odorless
- **pH:** ~1 (for concentrated solution)
- **Boiling Point:** 158 °C (for 85% solution)
- **Melting Point:** 42 °C
- **Density:** 1.685 g/cm³ (85%)
- **Solubility:** Completely miscible with water

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Heat, sparks, open flames, incompatible materials

- **Incompatible Materials:** Strong bases, metals, oxidizing agents
- **Hazardous Decomposition Products:** Phosphorus oxides, hydrogen gas

11. Toxicological Information

- **Acute Toxicity:** Corrosive; harmful if swallowed in concentrated form
- **Chronic Effects:** Prolonged exposure may cause irritation to respiratory tract and skin
- **Carcinogenicity:** Not classified as carcinogenic

12. Ecological Information

- **Aquatic Toxicity:** Harmful to aquatic organisms at high concentrations
- **Persistence/Degradability:** Biodegradable in low concentrations
- **Mobility:** Soluble in water; may affect pH of water bodies

13. Disposal Considerations

- Neutralize with lime or sodium bicarbonate before disposal
- Dispose in accordance with local regulations
- Do not release into drains or water bodies without treatment

14. Transport Information (Detailed)

- **UN Number:** 1805
- **UN Proper Shipping Name:** Phosphoric Acid Solution
- **Transport Hazard Class:** 8 (Corrosive)
- **Packing Group:** II
- **ADR/RID (Road/Rail):** Class 8, PG II
- **IMDG (Sea):** Class 8, PG II; Marine Pollutant: No
- **IATA/ICAO (Air):** Class 8, PG II

- **Special Precautions:**
 - Keep upright during transport
 - Avoid contact with metals and combustible materials
 - Ensure containers are tightly closed and leak-proof
 - Emergency response guide should be available for spillage or accident
- **Label Requirements:** Corrosive symbol, proper shipping name, UN number
- **Transport Segregation:** Separate from bases, oxidizers, and reactive metals

15. Regulatory Information

- Complies with food additive regulations (E338)
- Corrosive classification under GHS
- Complies with local occupational safety and environmental regulations

16. Other Information

- MSDS prepared in accordance with OSHA, WHMIS, and GHS standards
- **Disclaimer:** Information provided is based on current knowledge; users must ensure safe handling and compliance with applicable regulations.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.