



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

## Safety Data Sheet (MSDS)

(According to GB/T 16483, GB/T 17519, and GHS Standards)

### SECTION 1: Identification

#### 1.1 Product Identifiers

- Product Name: Phosphoric Acid (85% Aqueous Solution)
- Product Number:PHOS-20260211
- Brand:TECHPURE
- CAS-No.:7664-38-2
- Synonyms: Orthophosphoric Acid; Phosphoric Acid Solution

#### 1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
- RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI)PILOT FREE TRADE ZONE.
- Telephone : +86-021-50350029
- Fax : +86-021-50350029

#### 1.3 Emergency telephone

Emergency Phone # : +86-021-50350029  
(CHEMTREC)

#### 1.4 Uses & Restrictions

- Identified Uses: Fertilizer production, chemical synthesis, food additive, laboratory reagent.
- Uses Advised Against: Unauthorized food use (industrial grade), unventilated enclosed space use.

### SECTION 2: Hazards Identification

#### 2.1 GHS Classification

- Corrosive to metals (Category 1)
- Skin corrosion/irritation (Category 1)
- Eye damage/eye irritation (Category 1)
- Aquatic toxicity (Category 2)

#### 2.2 GHS Label Elements

- Hazard Pictogram: Corrosion; Environment
- Signal Word: Danger
- Hazard Statements: H290 (May be corrosive to metals); H314 (Causes severe skin burns and eye damage); H401 (Toxic to aquatic life)
- Precautionary Statements: P260 (Do not breathe vapor); P280 (Wear protective gloves/eye/face protection); P304+P340 (If inhaled: Remove to fresh air)

### SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Mixture
- Active Component: Phosphoric Acid (CAS 7664-38-2)
- Concentration: 85.0 ± 1.0%



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- Diluent: Deionized Water (14.0-15.0%)
- Impurities:  $\leq 0.5\%$  (Free sulfuric acid, trace metals)

## SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; seek medical attention if discomfort persists.
- Skin Contact: Remove contaminated clothing; rinse skin with plenty of running water for 15 minutes.
- Eye Contact: Hold eyes open; rinse continuously with plenty of running water for 15 minutes; seek medical attention.
- Swallowed: Do not induce vomiting; rinse mouth with water; seek medical attention.

## SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Dry powder, CO<sub>2</sub>, foam, water spray.
- Special Hazards: Non-flammable; toxic fumes (PO<sub>x</sub>) when burned; corrosive to metals.
- Advice for Firefighters: Wear self-contained breathing apparatus and full protective clothing.

## SECTION 6: Accidental Release Measures

- Personal Precautions: Evacuate non-essential personnel; wear full PPE.
- Environmental Precautions: Prevent entry into drains/watercourses; neutralize with alkaline absorbents.
- Clean-Up Methods: Small spills: Absorb with inert alkaline materials; large spills: Contain and transfer to sealed containers.

## SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated areas with corrosion-resistant equipment.
- Storage: Cool, dry, well-ventilated warehouse ( $\leq 30^{\circ}\text{C}$ ); sealed, away from heat/strong bases.
- Incompatibilities: Strong bases, metals, oxidizing agents.

## SECTION 8: Exposure Controls/Personal Protection

- PPE: Chemical safety goggles/face shield; nitrile rubber gloves; chemical-resistant clothing.
- Exposure Limits: TWA (8h): 1 mg/m<sup>3</sup> (OSHA); STEL (15min): 3 mg/m<sup>3</sup> (OSHA).

## SECTION 9: Physical and Chemical Properties

- Physical State: Liquid; Color: Colorless; Odor: Faint acidic
- Melting Point: 21 °C; Boiling Point: 158 °C (decomposes); Density (20 °C): 1.688 g/cm<sup>3</sup>
- Viscosity (20 °C): 25 mPa·s; Vapor Pressure (25 °C): 0.03 kPa

## SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions; decomposes at high temperature.
- Hazardous Reactions: Reacts violently with strong bases and metals.

## SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>): 1530 mg/kg; Inhalation (Rat, LC<sub>50</sub>): > 1000 mg/m<sup>3</sup> (4h)
- Skin/Eye Corrosion: Severe skin burns; permanent eye damage risk.

## SECTION 12: Ecological Information

- Aquatic Toxicity: Fish (Rainbow Trout, LC<sub>50</sub>): 100 mg/L (96h); Daphnia (EC<sub>50</sub>): 150 mg/L (48h)



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- Biodegradability: Moderately biodegradable after neutralization.

### **SECTION 13: Disposal Considerations**

- Product Waste: Dispose as hazardous waste; neutralize with alkali before disposal.
- Packaging Waste: Rinse with water; dispose as hazardous waste or recycle.

### **SECTION 14: Transport Information**

- UN Number: 1805
- UN Proper Shipping Name: PHOSPHORIC ACID
- Transport Hazard Class: 8 (Corrosive); Packaging Group: II
- Marine Pollutant: Yes

### **SECTION 15: Regulatory Information**

- National Regulations: Hazardous Chemical Safety Management Regulation; Food Safety Law.
- International Regulations: GHS (Rev. 9); REACH (EU, listed); TSCA (US, listed); IMDG Code.

### **SECTION 16: Other Information**

- Revision Date:11 FEB 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.

A large, faded watermark of the Neway Sinophc Tech logo is centered on the page. It consists of the stylized 'N' logo above the Chinese characters '纳维盈医化科技' and the English text 'NEWAY SINOPHC TECH' below it.

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