



MATERIAL SAFETY DATA SHEET (MSDS)

Phosphoric Acid, 85%

SECTION 1: Product Identification

Product Name	Phosphoric acid, 85%
CAS#	7664-38-2 (85-88%)
Synonym	Orthophosphoric acid

SECTION 2: Composition

Phosphoric Acid	85-88%
Water	12-15%

LD50 Oral (Rat): 1530 mg/kg. LD50 Dermal (Rabbit): 2740 mg/kg.

SECTION 3: Hazards Identification

Very hazardous: skin contact (irritant/corrosive), eye contact (irritant/corrosive), ingestion. Hazardous: inhalation (lung sensitizer). May cause severe burns. DOT Class 8: Corrosive material.

SECTION 4: First Aid Measures

- Eyes: Flush with water for at least 15 minutes. Get medical attention immediately.
- Skin: Flush with water for 15 minutes, remove contaminated clothing.
- Inhalation: Remove to fresh air. If not breathing, give artificial respiration.
- Ingestion: Do NOT induce vomiting. Seek medical attention.

SECTION 9: Physical and Chemical Properties

Physical State	Liquid (syrupy/viscous)
Color	Clear Colorless
Odor	Odorless
pH	Acidic
Boiling Point	158 deg C
Melting Point	21 deg C
Specific Gravity	1.685 @ 25 deg C
Vapor Density	3.4 (Air = 1)

SECTION 10: Stability and Reactivity

Stable. Reactive with oxidizing agents, combustible materials, metals, alkalis. Extremely corrosive to copper, stainless steel. Reacts with metals to liberate flammable hydrogen gas.



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SECTION 14: Transport Information

DOT Class 8: Corrosive material. UN 1805. Packing Group III. HMIS: Health-3, Fire-0, Reactivity-0.