

Liquid pH Balancer

1. Identification: Liquid pH Balancer.

2. Hazard(s) Identification:

GHS Classification: Skin Corrosion (Category 1B); Serious Eye Damage (Category 1); Corrosive to Metals (Category 1).

Signal Word: DANGER

Hazard Statements: H314: Causes severe skin burns and eye damage. H290: May be corrosive to metals.

3. Composition:

Chemical Name	CAS Number	Weight %	GHS Classification
Citric Acid	77-92-9	10% – 50% (<i>Adjust to match your label</i>)	Eye Irrit. 2A (H319); Skin Irrit. 2 (H315)
Water	7732-18-5	Balance to 100%	Not Hazardous

4. First-Aid Measures:

Eye/Skin Contact: Flush immediately with large amounts of water for at least 15–20 minutes. Remove contaminated clothing. Seek **immediate medical attention**.

Ingestion: Rinse mouth. Do not induce vomiting. Drink plenty of water. Get immediate medical help.

5. Fire-Fighting Measures: Non-flammable liquid. Reacts with metals to form highly flammable hydrogen gas. Use water spray or CO₂ to cool containers.

6. Accidental Release: Wear full protective gear (boots, apron, goggles). Neutralize spill carefully with a base like sodium bicarbonate (baking soda) or lime, then absorb with inert clay.

7. Handling and Storage: Store in original, corrosion-resistant plastic containers (HDPE). **Never store in metal containers.** Keep away from strong bases.

8. Exposure Controls: Require chemical splash goggles, face shield, acid-resistant gloves (neoprene/nitrile), and vapor respirator if misted.

9. Physical and Chemical Properties: Clear colorless liquid. **pH: 1.0 – 2.0 (Highly Acidic).**

10. Stability: Stable, but generates intense heat when mixed with water or bases (**Always add acid to water, never water to acid**).

11. Toxicological Information: Corrosive. Causes severe burns, permanent eye damage, or blindness if splashed.

12. Ecological Information: Toxic to aquatic life due to low pH. Neutralizes naturally in soil over time.

13. Disposal Considerations: Classified as hazardous waste (RCRA Corrosive Waste D002 due to pH ≤ 2). Dispose via authorized chemical waste handlers.

14. Transport Information: Regulated. **UN 1805, Phosphoric Acid Solution, Class 8, Packing Group III.**

15. Regulatory Information: (India) Subject to the Factories Act 1948 and MSIHC Rules 1989 for corrosive storage limits.

16. Other Info: NFPA Rating: Health: 3 | Flammability: 0 | Instability: 0.