

Cynmar Corporation  
21709 State Route 4 North, Carlinville, IL 62626 (800) 223-3517  
Emergency Telephone No.: (800) 255-3924

# Material Safety Data Sheet

## Section 1 – Chemical Product and Company Identification

Catalog Numbers: CYMBU5003-A, CYMBU5003-B, CYMBU5003-C, CYMBU5003-D, CYMBU5003-P, CYMBU5003-Q, CYMBU5003-G, CYMBU5003-T  
Product Identity: Buffer Solution, pH 3.0

**Chemical Family:** Not Applicable  
**Synonyms:** Not Applicable  
**Recommended Use:** Laboratory chemicals

Manufacturer's Name: AquaPhoenix Scientific, Inc., 9 Barnhart Dr., Hanover, PA 17331, (866) 632-1291  
Emergency Contact Number (24hr): Chemtel (800) 255-3924

Issue Date: 1/5/07  
Revision Date: 06/05/08, 06/08/10, 02/19/12, 08/01/12, 2/12/15

## Section 2 – Hazard Identification

**Emergency Overview:** Non-flammable, non-corrosive, non-toxic. Does not present significant health hazards. Wash areas of contact with water.

**Appearance:** Clear, Colorless Liquid                      **Odor:** Odorless

**Target Organs:** Eyes, skin

**Potential Health Effects/ Routes of Exposure:**

**Eyes:** May cause permanent damage to eyes.

**Skin:** May cause severe burns.

**Ingestion:** May cause nausea, cramps, vomiting, and diarrhea.

**Inhalation:** May damage respiratory tract.

**Chronic Effect / Carcinogenicity:** None (IARC, NTP, OSHA)

**Aggravated Medical Conditions:** No information available

These chemicals are not considered hazardous by OSHA.

See section 11 for toxicological information. See section 12 for potential environmental effects.

## Section 3 – Composition, Information on Ingredients

Sorbic Acid, CAS# 110-44-1, <0.01% w/v  
Potassium Acid Phthalate, CAS# 877-24-7, <2% w/v  
Hydrochloric Acid, CAS# 7647-01-0, < 2% w/v  
Water, purified, CAS# 7732-18-5, > 96% w/v

## Section 4 – First Aid

**Eyes:** Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

**Skin:** Flush with water for 15 minutes.

**Ingestion:** Do NOT induce vomiting. Dilute with water or milk. Get medical assistance.

**Inhalation:** Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.

**Notes to Physician:** Treat symptomatically.

## Section 5 – Fire Fighting Measures

**Flash Point:** Not Applicable    **Autoignition Temperature** No information available.

**Explosion Limits Upper** No data available                      **Lower** No data available

**Extinguishing Media:** Use means suitable to extinguishing surrounding fire.

**Unsuitable Extinguishing Media:** No information available

**Fire & Explosion Hazards:** Not considered to be a fire or explosion hazard.

**Fire Fighting Instructions / Equipment:** Use normal procedures. Use protective clothing. Use NIOSH-approved breathing equipment.

**Hazardous Combustion Products:** No information Available

**Sensitivity to mechanical impact** No information available.

**Sensitivity to static discharge** No information available.

**Specific Hazards Arising from the Chemical:** No information available

**NFPA Rating:** (estimated) Health: 1; Flammable: 0; Reactivity: 0

## **Section 6 – Accidental Release Measures**

**Personal Precautions:** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

**Environmental Precautions:** No information available.

**Methods for Containment and Clean Up:** Absorb with suitable material. Always obey local regulations.

## **Section 7 – Handling and Storage**

**Handling:** Wash hands after handling. Avoid contact with skin and eyes.

**Storage:** Protect from freezing and physical damage.

## **Section 8 – Exposure Controls, Personal Protection**

Hydrochloric Acid, CAS# 7647-01-0, ACGIH TLV: 7.5mg/m<sup>3</sup>, OSHA PEL: 7mg/m<sup>3</sup>

Water, purified, CAS# 7732-18-5, ACGIH TLV: NA, OSHA PEL: NA

Sorbic Acid, CAS# 110-44-1, ACGIH TLV: NA, OSHA PEL: NA

Potassium Acid Phthalate, CAS# 877-24-7, ACGIH TLV: NA, OSHA PEL: NA

**Engineering Measures/ General Hygiene:** Normal ventilation is adequate. Ensure eyewash and safety showers are available.

**Personal Protection Equipment: Skin Protection:** Chemical resistant gloves.

**Eye/Face Protection:** Safety Glasses or goggles. **Respiratory Protection:** Normal ventilation is adequate

## **Section 9 – Physical and Chemical Properties**

**Appearance/Physical State:** Clear, Colorless Liquid

**Odor:** Odorless

**Boiling Point:** Approx 100C

**Melting Point:** Approx 0 C

**Vapor Density:** No Information Available

**Evaporation Rate:** No Information Available

**pH:** 3.0

**Flammability:** No Information Available

**Solubility:** Infinite

**Relative Density:** No Information Available

**% Volatility:** No Information Available

**Specific Gravity:** Approx 1

**Vapor Pressure:** No Information Available

**Flash Point:** Not Applicable

**Coefficient of water/oil distribution:** Not Available

**Odor Threshold:** Not Available

**Decomposition Temperature:** No Information Available

**Partition Coefficient n-octanol/water:** Not Available

**Molecular Weight:** Not available

## **Section 10 – Stability and Reactivity**

**Chemical Stability:** Stable under normal conditions of use and storage.

**Incompatible Materials:** Most metals, active metals, cyanides, alkalis, sulfides, sulfites, metal oxides, formaldehydes.

**Conditions to Avoid:** No Information Available.

**Hazardous Decomposition Products:** Hydrogen and hydrogen chloride fumes when in contact with metal, chlorine gas from oxidizers.

**Hazardous Polymerization:** Does not occur

**Hazardous Reactions:** None under normal processing.

## **Section 11 – Toxicological Information**

**Routes of Exposure/Symptoms/Corrosiveness** – See Section 2

LD50 orl-rat: 900mg/kg (Hydrochloric Acid) 3200mg/kg (Potassium Acid Phthalate)

LC50 inhalation-rat: NA

**Irritation:** No Information Available

**Toxicologically Synergistic:** No information available

**Chronic Exposure**

**Carcinogenicity** No information available

**Sensitization** No information available.

**Mutagenic Effects** No information available.

**Reproductive Effects** No information available.

**Developmental Effects (Immediate/Delayed)** No information available.

**Teratogenicity** No information available.

**Other Adverse Effects** No Information Available.

**Endocrine Disruptor Information** No information available

**Section 12 – Ecological Information**

**Ecotoxicity:** Hydrogen Chloride has a high acute and chronic toxicity to aquatic life.

**Persistence and Degradability:** No Information Available

**Mobility:** No Information Available

**Bioaccumulation/ Accumulation:** No Information Available

**Section 13 – Disposal Considerations**

**Waste Disposal/Waste Disposal of Packaging:** Cover spill with sodium carbonate or a soda ash-slaked lime mixture. Add water to form slurry. Decant to drain with large quantities of water. Treat solid residue as normal refuse. Wash with soda ash solution.

All chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Comply with all local, state, and federal regulations.

**Section 14 – Transport Information**

**DOT - Not Regulated**

**Section 15 – Regulatory Information (not meant to be all inclusive)**

**OSHA Status:** These chemicals are not considered hazardous by OSHA.

**Canada DSL:** These chemicals are listed on Canada's DSL list.

**TSCA:** These chemicals are listed on the TSCA Inventory.

**SARA Title III Section 313:** Not Applicable

**RCRA Status:** Not Applicable

**CERCLA Reportable Quantity:** Hydrochloric acid – 5000 lb

**WHMIS:** Not Applicable.

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR

**Section 16 – Additional Information**

**Disclaimer:** The information on this MSDS applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to determine the suitability and completeness of this information for his own particular use. No warranty is implied regarding the accuracy of the data or the results to be obtained from the products use.