

**FABPRO INC.**  
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**HAZARD RATING HMIS**  
 Health= 0, Flammability= 0, Reactivity= 0  
 (Index 4=ver high, 3=high, 2=moderate  
 1=slight, 0=insignificant)

**Material Safety Data Sheet**

**I. General Information**

<b>Trade Name &amp; Synonym</b> Citric Acid	<b>Chemical Family</b> organic acid
<b>Chemical Name &amp; Synonym</b> β- hydroxy tricarboxylic acid	<b>Date prepared</b> July 1995
	<b>Prepared by</b> Aziz Ullah Ph.D.

**II. Ingredients**

Citric acid anhydrous

**III. Physical Properties**

<b>Boiling Point</b> NA	<b>Specific Gravity(Water=1)</b> Approx 1.0
<b>Vapor Pressure(mm Hg.)</b> ND	<b>Melting Point</b> ND
<b>Vapor Density(AIR=1)</b> > 1	<b>Evaporation Rate (Butyl Acetate=1)</b> NA
<b>Solubility in Water</b> Complete	<b>Appearance and odor</b> White free flowing powder
<b>pH (Powder 1% solution,)</b> 2.2	

**IV. Fire and Explosion Hazard Data**

<b>Flash Point (TOC)</b> None	<b>Flammable Limits</b> NA	<b>LEL</b>	<b>UEL</b> NA
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**Extinguishing Media**

Foam, CO<sub>2</sub>, Dry Chemical, Water Fog

**Special Fire Fighting Procedures**

Usual Fire fighting procedures can be used

**Unusual Fire and Explosion Hazards**

None Known

**V. Reactivity Data**

<b>Stability</b>	Unstable	<b>Conditions to avoid</b>
	Stable X	

**Incompatibility (Materials to avoid)**

Alkalis, High pH

**Hazard Decomposition or Byproducts**

When Exposed to fire emits normal products of combustion

<b>Hazardous</b>	May occur	<b>Conditions to avoid</b>
<b>Polymerization</b>	Will not occur X	

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**VI. Health Hazard Data**

Routes of Entry	Inhalation	Skin	Ingestion	Eyes
	No	No	No	Yes

**Health Hazards**

Maybe irritating to eyes if contacted, this material generally regarded as safe

**Signs and Symptoms of Exposure**

May irritate eyes if contacted

**Medical Conditions Aggravated by Exposure**

None known

**Emergency and First Aid Procedures**

Flush Thoroughly with water If irritation persists see physician

**VII. Precautions for Safe Handling and Use**

**Steps to be Taken in Case Material is Released or Spilled**

Flush with water or sweep up and containerize ( Non-Hazardous waste)

**Waste Disposal Method**

Non hazardous waste .Check with Federal State or local regulations

**Precautions to be taken in Handling and Storing**

No special requirements

**Other Precautions**

NA

**VIII. Control Measures**

**Respiratory Protection**

General room ventilation is adequate

Ventilation	Local Exhaust	Special
Not normally required		

Mechanical	Other

**Protective Gloves**  
Not normally required

**Eye Protection**  
glasses suggested

**Other Protective Clothing or Equipment**

NA

**Work/Hygienic Practices**

Wash after handling      Keep out of reach of children

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