

MATERIAL SAFETY DATA SHEET

Part # CO2IS01

Section I: General Information

Product Name: Carbon Dioxide Buffer Solution
Manufacturer's Name: Van London pHoenix Company
Distributed By: Van London pHoenix Company
Address: 6103 Glenmont Dr. Houston, Texas 77081
Phone: 713/772-6641 Fax: 713/772-4671

Chemical Name: Sodium chloride/Citric acid/Sodium citrate in Water
Chemical Family: Salt solution
DOT Shipping Info: N/A
IATA Shipping Info: N/A

Section II: Ingredients

CAS No.	%	Chemical Name	LD50 (mg/kg) oral-rat	OSHA/PEL ACGIH TLV
7647-14-5	5.8%	Sodium chloride	3,000	None
77-92-9	6.1%	Citric acid	11,700	None
6132-04-3	17.6%	Sodium citrate	5.21 (IRE-rbbt)	None
7732-18-5	70.5%	Water	---	None

Section III: Physical Data

Boiling Point: Above 100°C
Specific Gravity: 1.2
Vapor Pressure: N/A
Freezing Point: -20°C
Vapor Density: N/A
pH: 4.5
Water Solubility: Soluble
Appearance & Odor: Colorless, odorless liquid

Section IV: Fire & Explosion Hazard Data

Flashpoint: Not Flammable
Auto ignition Temperature: N/A
Extinguishing Media: Water, CO₂, dry chemical
Special Fire Fighting Procedures: Self Contained Breathing Apparatus should be worn.
Unusual Fire & Explosion Hazards: N/A

Section V: Health Hazard Data

Effects of Overexposure:	Rashes, itching, irritated skin, dermatitis, conjunctivitis.
Emergency & First Aid:	Irrigate contact area immediately with large amounts of water. Consult physician.
Eyes & Skin:	Irrigate contact area immediately with large amounts of water. Consult physician.
Ingestion/Inhalation:	Ingestion- Do not induce vomiting. Give water. Consult physician. Inhalation-low hazard in this buffered form.

Section VI: Reactivity Data

Stable:	Yes
Conditions to Avoid:	None
Incompatibility:	Strong oxidizers, metal nitrates, copper, aluminum, zinc.
Hazardous Decomposition Products:	May emit corrosive fumes during fire.
Hazardous Polymerization:	Will not occur.

Section VII: Spill or Leak Procedures

Steps to be Taken:	Clean up and set aside for waste disposal.
Waste Disposal Method:	Dispose of in accordance with federal, state, and local laws.

Section VIII: Special Protection Information

Respiratory Protection:	N/A
Ventilation:	N/A
Protective Gloves:	Any type
Eye Protection:	Safety goggles
Other Protective Equipment:	N/A

Section IX: Special Precautions

Precautions to be taken in Handling & Storage:	Keep away from oxidizers, metals, and bases.
Other Precautions:	Not listed on SARA Title III. NFPA Rating (0-4): Health-1, Fire-0, Reactivity-0, Specific-none.

Issue Date: May 1, 2007

Name: Peter F. Boyle, Quality Control Manager

Signature:

A handwritten signature in cursive script that reads "Peter Boyle". The signature is written in black ink and is positioned below the printed name.