

# Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** CO2 Spectrum Tube

**Synonyms/Generic Names:** Carbon dioxide, CO2

**SDS Number:** PH1196B6

**Product Use:** For Educational Use Only

<b>Information Contact:</b> Electronic Instrumentation
12 Mahesh Nagar
Ambala Canitt 133001 INDIA +91-171-2662797

## 2. HAZARDS IDENTIFICATION

**OSHA Hazards**

**Target Organs:** Repertory system

**Signal Words:** None

**Pictograms:** None

**GHS Classification:**

Not a dangerous substance according to GHS	
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**GHS Label Elements, including precautionary statements:** None

**Hazard Statements:** May Displace

None	
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**Precautionary Statements:**

P410	Protect from sunlight
P403	Store in well ventilated place

**Potential Health Effects**

<b>Eyes</b>	None
<b>Inhalation</b>	May be harmful if inhaled
<b>Skin</b>	None
<b>Ingestion</b>	None

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Component</b>	<b>Weight %</b>	<b>CAS #</b>	<b>Formula</b>	<b>Molecular Weight</b>
Carbon dioxide	100%	124-38-9	CO <sub>2</sub>	44.01

### **4. First-Aid Measures**

<b>Eyes</b>	Flush eyes as a precaution
<b>Inhalation</b>	Low concentrations of CO <sub>2</sub> can cause increase respiration and head ache. Move victim to area of fresh air and consult a doctor
<b>Skin</b>	Wash off with soap and water
<b>Ingestion</b>	Never give anything to an unconscious person, rinse mouth with water, consult physician

### **5. FIREFIGHTING MEASURES**

<b>Suitable (and unsuitable) extinguishing media</b>	Water spray, CO <sub>2</sub> , dry chemical
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus
<b>Specific hazards arising from the chemical</b>	Carbon oxides

### **6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions, protective equipment and emergency procedures</b>	Avoid breathing if released
<b>Environmental precautions</b>	Do not release into environment
<b>Methods and materials for containment and cleaning up</b>	Ventilate area

### **7. HANDLING AND STORAGE**

#### **Precautions for safe handling**

See section 8 for recommendations on the use of personal protective equipment.

#### **Conditions for safe storage, including any incompatibilities**

Store in cool, dry well-ventilated area.

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Occupational exposure controls:** Contains no substances with occupational exposure limit values.

### **Personal Protection**

<b>Eyes</b>	Safety goggles
<b>Inhalation</b>	Ensure adequate ventilation, TWA 5000 ppm TEC
<b>Skin</b>	Glove, nitrile

### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance (physical state, color, etc.)</b>	Colorless gas
<b>Odor</b>	odorless
<b>Odor threshold</b>	n/a
<b>pH</b>	No data
<b>Melting point/freezing point</b>	-78 degrees C
<b>Initial boiling point and boiling range</b>	-57 degrees C
<b>Flash point</b>	No data
<b>Evaporation rate</b>	No data
<b>Flammability (solid, gas)</b>	No data
<b>Upper/lower flammability or explosive limit</b>	No data
<b>Vapor pressure</b>	830 psi at room temp
<b>Vapor density</b>	1.52
<b>Relative density</b>	.0019g/mL
<b>Solubility (ies)</b>	No data
<b>Partition coefficient: n-octanol/water</b>	No data
<b>Auto-ignition temperature</b>	No data
<b>Decomposition temperature</b>	No data

## **10. STABILITY AND REACTIVITY**

<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>Possibility of Hazardous Reactions</b>	No data
<b>Conditions to Avoid</b>	No data
<b>Incompatible Materials</b>	No data
<b>Hazardous Decomposition Products</b>	No data

## **11. TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity</b>	Low concentrations of CO2 can cause increase respiration and head ache.
<b>Chronic Toxicity</b>	n/a
<b>Teratogenicity</b>	No component present confirmed by ACGIH
<b>Mutagenicity</b>	n/a
<b>Specific Target Organ Toxicity</b>	No data
<b>Embryotoxicity</b>	No data
<b>LD 50</b>	No data

## **12. ECOLOGICAL INFORMATION**

<b>Persistence and Degradability</b>	No data
<b>Bioaccumulative Potential</b>	No data
<b>Mobility in Soil</b>	No data
<b>PBT and vPvB Assessment</b>	No data
<b>Other Adverse Effects</b>	No data

## **13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer to assure compliance.

## **14. TRANSPORTATION INFORMATION**

<b>Shipping Name</b>	Carbon dioxide
<b>Hazard Class</b>	2.2
<b>UN Number</b>	1013

## **15. REGULATORY INFORMATION**

<b>TSCA Inventory Status</b>	Yes
<b>DSCL (EEC)</b>	
<b>California Proposition 65</b>	No
<b>SARA 302</b>	No components subject to report of Sara III, section 3
<b>WHMIS Canada</b>	Uncontrolled

## **16. OTHER INFORMATION**

<b>Revision</b>	<b>Date</b>
1	07-31-2014