# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

# Material Safety Data Sheet (MSDS)

Section 1 — Chemical Product and Company Identification

# Carbon Dioxide Gas

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261 CHEMTREC Emergency Phone Number: (800) 424-9300

# Section 2 — Composition, Information on Ingredients

Carbon Dioxide Gas Synonym: carbonic anhydride CAS#: 124-38-9

# Section 3 — Hazards Identification

Gas - odorless colorless. An asphyxiant. Substance not considered hazardous. However, not all health aspects of this substance have been thoroughly investigated.

# Section 4 — First Aid Measures

Call a physician, seek medical attention for further treatment, observation and support after first aid. Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately. Eye: Immediately flush with fresh water for 15 minutes. External: Wash with soap and water.

# Section 5 — Fire Fighting Measures

Non-flammable, non-combustible gas. Dusts of various metals are ignitable and explosive when suspended in CO2.

# Section 6 — Accidental Release Measures

Ventilate the area. Cylinder is so small that asphyxiation is unlikely.

# Section 7 — Handling and Storage

Store with the bottled gases in a secure area.

### Section 8 — Exposure Controls, Personal Protection

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 5000 ppm STEL 3000 ppm (OSHA, NIOSH)

### MSDS #: 212.00 Revision Date: November 25, 2002

FLINN AT-A-GLANCE Health-0 Flammability-0 Reactivity-0 Exposure-0 Storage-0

0 is low hazard, 3 is high hazard

NFPA CODE None Established

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## Section 9 — Physical and Chemical Properties

Colorless, odorless gas. Solubility: Solubility in water: (At 1 atm., 20 C) 88ml CO2/100 ml water. Formula: CO2 Formula Weight: 44.0 Relative density: (Air=1) 1.53 Melting Point: -109 F (sublimes)

### Section 10 — Stability and Reactivity

Avoid contact with sodium peroxide, aluminum or magnesium metal in finely divided form, water reactive substances. Shelf Life: Indefinite.

### Section 11 — Toxicological Information

Acute effects: Nausea, dizziness, headache Chronic effects: N.A. Target organs: N.A. ORL-RAT LD50: N.A. IHL-RAT LC50: N.A. SKN-RBT LD50: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

### Section 12 — Ecological Information

Data not yet available.

### Section 13 — Disposal Considerations

Please consult with state and local regulations. Empty gas cylinder outside or in an operating fume hood. Throw empty cylinder in garbage if non-refillable.

### Section 14 — Transport Information

Shipping Name: Carbon Dioxide Hazard Class: 2.2, Non flammable gas UN Number: UN1013

N/A = Not applicable

### Section 15 — Regulatory Information

TSCA-listed, EINECS-listed (204-696-9).

### Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.



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Flinn Chemical Packaging Prevents Accidents

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