

## SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER:

**CARBON DIOXIDE CYLINDER**

OTHER MEANS OF IDENTIFICATION:

CO2 Cylinder

RECOMMENDED USE:

Laboratory supply

RESTRICTIONS ON USE:

None known

SUPPLIER IDENTIFIER:

**Di-Corp Testing Equipment**

**Unit 2, 4816-35B St. SE**

**Calgary, Alberta**

**T2B 3N1**

**403-268-7912**

**A division of :**

**Di-Corp**

**8750-53 Ave**

**Edmonton, AB T6E 5G2**

**780-440-4923**

EMERGENCY PHONE NUMBER 24hr:

780-468-4064

EMERGENCY TRANSPORT NUMBER:

1-888-CANUTEC (226-8832), 613-996-6666 or \*666 on a cellular phone

## SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION:

Gases Under Pressure – Liquefied Gas

Simple Asphyxiant – Category 1

LABEL SYMBOLS:



SIGNAL WORD:

**WARNING**

CLASSIFICATION INFORMATION:

Pressurized container; may burst if heated.

May displace oxygen and cause rapid suffocation.

May increase respiration and heart rate.

OTHER HAZARDS:

May cause frostbite.

### **PREVENTION**

Use only outdoors or in a well-ventilated area.

Wear protective gloves, clothing, eye and face protection when handling.

PRECAUTIONARY STATEMENTS:

### **RESPONSE**

IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

### **STORAGE**

Protect from sunlight. Store in a well-ventilated place.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**CHEMICAL NAME**

**CAS NUMBER**

**CONCENTRATION**

Carbon dioxide

124-38-9

>99.5%

## SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Carbon dioxide is harmless at atmospheric pressure. Liquefied gas may cause frostbite. Treat by washing with water. If burn is large get medical attention.
EYE CONTACT:	Carbon dioxide is harmless at atmospheric pressure. Liquefied gas may cause eye damage. Flush with gently flowing warm water for minimum 5 minutes. Hold eyelids open to ensure thorough flushing. Obtain medical attention when flushing is complete.
INGESTION:	Product is a gas; not an applicable source of contact.
INHALATION:	If inhaled remove person to fresh air and keep comfortable for breathing. Obtain immediate medical attention. If victim is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe.
MOST IMPORTANT SYMPTOMS / EFFECTS:	Contact with pressurized gas may cause frostbite.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT	Try to warm frozen tissues and seek medical attention.

## SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Use media appropriate for packaging and surrounding materials.
UNSUITABLE EXTINGUISHING MEDIA:	None known.
SPECIFIC FIRE HAZARDS:	Contains gas under pressure. In a fire, or if heated, a pressure increase will occur and the container may burst or explode.
HAZARDOUS COMBUSTION PRODUCTS:	Not applicable.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Self-contained breathing apparatus required for fire-fighting personnel. Move containers from fire area, or cool with water spray, if possible.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use appropriate safety equipment.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Not applicable; product is a gas.

## SECTION 7: HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

Practice reasonable caution and personal cleanliness. Avoid skin and eye contact. Use in a well-ventilated place.

### CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in a segregated approved area.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### CHEMICAL NAME

Carbon dioxide

### EXPOSURE LIMITS

ACGIH TLV-TWA = 9000 mg/m<sup>3</sup> 8 hours

ACGIH TLV-STEL = 54000 mg/m<sup>3</sup> 15 minutes

### ENGINEERING CONTROLS:

Good general ventilation should be sufficient for normal conditions of use.

### PERSONAL PROTECTIVE MEASURES

### RESPIRATORY PROTECTION:

Not required for normal conditions of use.

### PROTECTIVE GLOVES:

Wear protective gloves if there is a risk of contact with pressurized gas.

### EYE PROTECTION:

Safety glasses with side shields recommended.

OTHER PROTECTIVE EQUIPMENT (SPECIFY): Protective clothing as required to prevent contact. Ensure eye-wash station and emergency shower are available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Colourless gas
ODOUR:	Odourless
ODOUR THRESHOLD:	Not applicable
pH:	Not available
MELTING POINT / FREEZING POINT:	-79°C (sublimates)
BOILING POINT / RANGE:	Not applicable
FLASH POINT:	Not applicable
EVAPORATION RATE:	Not applicable
FLAMMABILITY:	Not applicable
FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	830 psig
VAPOUR DENSITY:	1.53 (Air = 1)
RELATIVE DENSITY:	Not applicable
SOLUBILITY:	Not available
PARTION COEFFICIENT:	0.83
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not applicable
VISCOSITY:	Not applicable

## SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Not available.
CHEMICAL STABILITY:	Stable under recommended storage conditions.
POSSIBILITY OF HAZARDOUS REACTIONS:	None known.
CONDITIONS TO AVOID:	High temperatures.
INCOMPATIBLE MATERIALS:	Not available.
HAZARDOUS DECOMPOSITION PRODUCTS:	Not available.

## SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY:	Not available.
SKIN CONTACT:	No known or significant effects or critical hazards.
EYE CONTACT:	No known or significant effects or critical hazards.
INGESTION:	No known or significant effects or critical hazards.
INHALATION:	No known or significant effects or critical hazards.
CARCINOGENICITY:	Not carcinogenic.
TERATOGENICITY:	No information available.
REPRODUCTIVE TOXICITY:	No information available.
MUTAGENICITY:	No information available.
CHRONIC TOXICITY:	No information available.
TARGET ORGAN EFFECTS:	No information available.

## SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	Not available.
PERSISTENCE AND DEGRADABILITY:	Not available.
BIOACCUMULATIVE POTENTIAL:	Not available.
MOBILITY IN SOIL:	Not available.
OTHER ADVERSE EFFECTS:	Not available.

## SECTION 13: DISPOSAL CONSIDERATIONS

If gas remains in cylinders, release gas with proper equipment and dispose of cylinders as incombustible waste.

## SECTION 14: TRANSPORTATION INFORMATION

TDG	Regulated*
DOT	Regulated
IATA	Regulated
IMDG	Regulated
UN NUMBER:	UN1013
PROPER SHIPPING NAME:	CARBON DIOXIDE
CLASS:	2.2
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Not available
BULK TRANSPORT:	Not regulated
SPECIAL PRECAUTIONS:	None

*\*NOTE: Lab reagent size product can be shipped as a LIMITED QUANTITY.*

## SECTION 15: REGULATORY INFORMATION

DSL:	On the DSL
WHMIS CLASS:	A
TSCA:	On the list.

## SECTION 16: OTHER INFORMATION

REVISION DATE:	October 19, 2018
PREVIOUS VERSION DATE:	Not applicable

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