



## MATERIAL SAFETY DATA SHEET - CALIBRATION CHECK GAS

**PRODUCT NAME: 100% CARBON DIOXIDE**

**MSDS NO: 290-100**

**Version:3**

**Date: July, 2010**

### 1. Chemical Product and Company Identification

Gasco Affiliates, LLC  
320 Scarlett Blvd.  
Oldsmar, FL 34677

TELEPHONE NUMBER: (800) 910-0051  
FAX NUMBER: (866) 755-8920  
E-MAIL: info@gascogas.com

24-HOUR EMERGENCY NUMBER: 1-800-424-9300

PRODUCT NAME: CARBON DIOXIDE  
CHEMICAL NAME: CO<sub>2</sub>  
COMMON NAMES/ SYNONYMS: None  
TDG (Canada) CLASSIFICATION: 2.2  
WHIMIS CLASSIFICATION: A

### 2. COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENT	%VOLUME	PEL-OSHA	TLV-ACGIH	LD <sub>50</sub> or LC <sub>50</sub> Route/Species
CARBON DIOXIDE FORMULA: CO <sub>2</sub>	99.8% - 99.999	5000 ppm TWA	5000 ppm TWA 30,000 ppm STEL	N/A

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Odorless, colorless, non-flammable gas. Simple Asphyxiate- This product does not contain oxygen and may cause asphyxia if released in a confined area. Maintain oxygen levels above 19.5%. Carbon Dioxide exposure can cause nausea and respiratory problems. High concentrations may cause vasodilatation leading to circulatory collapse. Contents under pressure. .

#### ROUTE OF ENTRY:

Skin Contact No	Skin Absorption No	Eye Contact No	Inhalation Yes	Ingestion No
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#### HEALTH EFFECTS:

Exposure Limits Yes	Irritant No	Sensitization No	Reproductive Hazard No	Mutagen No
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Carcinogenicity: --NTP: No IARC: No OSHA: No

#### EYE EFFECTS:

None anticipated.

#### SKIN EFFECTS:

None anticipated.

#### INGESTION EFFECTS:

Ingestion unlikely. Gas at room temperature.



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#### INHALATION EFFECTS:

Carbon dioxide is a cerebral vasodilator. Inhaling large concentrations causes rapid circulatory insufficiency leading to coma and death. Chronic, harmful effects are not known from repeated inhalation of low concentrations. Low concentrations of carbon dioxide cause increased respiration and headache.

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#### 4. FIRST AID MEASURES

##### EYES:

N/A

##### SKIN:

N/A

##### INGESTION:

Not required.

##### INHALATION:

PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH THE SELF-CONTAINED BREATHING APPARATUS. Victims should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. If breathing has stopped administer artificial resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.

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#### 5. FIRE-FIGHTING MEASURES

These containers hold gas under pressure, with no liquid phase. If involved in a major fire, they should be sprayed with water to avoid pressure increases, otherwise pressures will rise and ultimately they may distort or burst to release the contents. High carbon dioxide concentrations vigorously accelerate combustion. Will support or initiate combustion/ explosions of organic matter and other oxidizable material.

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#### 6. ACCIDENTAL RELEASE MEASURES

In terms of weight, these containers hold very little contents, such that any accidental release by puncturing etc. will be of no practical concern.

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#### 7. HANDLING AND STORAGE

Suck back of water into the container must be prevented. Do not allow backfeed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Use only in well-ventilated areas. Do not heat cylinder by any means to increase rate of product from the cylinder. Do not allow the temperature where cylinders are stored to exceed 130°F (54°C).

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Use adequate ventilation for extended use of gas.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PARAMETER:	VALUE:
Physical state	: Gas
Evaporation point	: N/A
pH	: N/A
Odor and appearance	: Colorless, odorless



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### 10. STABILITY AND REACTIVITY

Stable under normal conditions. Expected shelf life 48 months.

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### 11. TOXICOLOGICAL INFORMATION

No toxicological damage caused by this product.

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### 12. ECOLOGICAL INFORMATION

No ecological damage caused by this product.

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### 13. DISPOSAL INFORMATION

Do not discharge into any place where its accumulation could be dangerous. Used containers are acceptable for disposal in the normal waste stream as long as the cylinder is empty and valve removed or cylinder wall is punctured; but GASCO encourages the consumer to return cylinders.

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### 14. TRANSPORT INFORMATION

	<u>United States DOT</u>	<u>Canada TDG</u>
PROPER SHIPPING NAME:	CARBON DIOXIDE	CARBON DIOXIDE
HAZARD CLASS:	2.2	2.2
IDENTIFICATION NUMBER:	UN 1013	UN 1013
SHIPPING LABEL:	NONFLAMMABLE GAS	NONFLAMMABLE GAS

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### 15. REGULATORY INFORMATION

This product does not contain ingredients subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 49 FR Part 372

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### 16. OTHER INFORMATION

This MSDS has been prepared in accordance with the Chemicals (Hazard Information and Packaging for Supply (Amendment) Regulation 1996. The information is based on the best knowledge of GASCO, and its advisors and is given in good faith, but we cannot guarantee its accuracy, reliability or completeness and therefore disclaim any liability for loss or damage arising out of use of this data. Since conditions of use are outside the control of the Company and its advisors we disclaim any liability for loss or damage when the product is used for other purposes than it is intended.

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