



## MATERIAL SAFETY DATA SHEET - CALIBRATION CHECK GAS

**PRODUCT NAME: 13.8% CARBON DIOXIDE, 8% BUTANE IN NITROGEN**

MSDS NO: 345

Version:3

Date: March, 2012

### 1. Chemical Product and Company Identification

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

TELEPHONE NUMBER: (800) 910-0051

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

FAX NUMBER: (866) 755-8920

E-MAIL: info@gascogas.com

PRODUCT NAME: CARBON DIOXIDE, BUTANE IN NITROGEN

CHEMICAL NAME: Butane in Carbon Dioxide

COMMON NAMES/ SYNONYMS: None

TDG (Canada) CLASSIFICATION: 2.1

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
Butane FORMULA: C <sub>4</sub> H <sub>10</sub>	8	Simple Asphyxiate	800 PPM	LC <sub>50</sub> 658 g/m <sup>3</sup> /4H (rat)
NITROGEN FORMULA: N <sub>2</sub>	0 to 98.2	Simple Asphyxiate	Simple Asphyxiate	Simple Asphyxiate

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

This product does not contain oxygen and may cause asphyxia if released in a confined area. Due to the small size of this cylinder of gas, no unusual health effects from over-exposure are anticipated under routine circumstances of use.

#### ROUTE OF ENTRY:

Skin Contact Yes	Skin Absorption No	Eye Contact Yes	Inhalation Yes	Ingestion No
<b>HEALTH EFFECTS:</b>				
Exposure Limits No	Irritant Yes	Sensitization No	Reproductive Hazard No	Mutagen No

Carcinogenicity: --NTP: No IARC: No OSHA: No

#### EYE EFFECTS:

N/A

#### SKIN EFFECTS:

N/A



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### PRODUCT NAME: BUTANE (1.8-100%) IN NITROGEN

#### INGESTION EFFECTS:

Ingestion unlikely. Gas at room temperature.

#### INHALATION EFFECTS:

Due to the small size of this cylinder of gas, no unusual health effects from over-exposure are anticipated under routine circumstances of use.

#### NFPA HAZARD CODES

Health: 1  
Flammability: 4  
Reactivity: 0

#### HMIS HAZARD CODES

Health: 1  
Flammability: 0  
Reactivity: 4

#### RATING SYSTEM

0= No Hazard  
1= Slight Hazard  
2= Moderate Hazard  
3= Serious Hazard  
4= Severe Hazard

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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 SELF-CONTAINED BREATHING APPARATUS. Victims should be assisted to an uncontaminated area and inhale fresh NITROGEN. 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

Butane is heavier than air and may travel a considerable distance to an ignition source. Butane is a flammable gas! Keep away from open flame and other sources of ignition. Do not allow smoking in storage areas or when handling. 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. The gases will not add significantly to the fire, but containers or fragments may be projected considerable distances - thereby hampering fire fighting efforts.

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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 gas

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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:	Butane Or Butane in Nitrogen	Butane or Butane in Nitrogen
HAZARD CLASS:	2.1	2.1
IDENTIFICATION NUMBER:	UN1011	UN1011
SHIPPING LABEL:	FLAMMABLE GAS	FLAMMABLE GAS

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### 15. REGULATORY INFORMATION

SARA Title III – Hazard Classes: Sudden release of pressure hazard. Fire Hazard.

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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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