



## MATERIAL SAFETY DATA SHEET - CALIBRATION CHECK GAS

**PRODUCT NAME: PROPANE (50 PPM – 1.1%) IN AIR**

MSDS NO: 177

Version:3

Date: January, 2006

### 1. Chemical Product and Company Identification

Gasco Affiliates, LLC  
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PRODUCT NAME: PROPANE (50 PPM – 1.1%) IN AIR

CHEMICAL NAME: Propane in air

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><br>Route/Species |
|---|-------------------|--------------|-------------------|---|
| Propane<br>FORMULA: C <sub>3</sub> H <sub>8</sub> | 0.005 to 1.1      | 1000 ppm TWA | Simple Asphyxiate | N/A   |
| Air<br>FORMULA: Mixture                           | 98.9 to<br>99.995 | N/A          | N/A               | N/A   |

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Simple hydrocarbons can cause irritation and central nervous system depression at high concentrations. Non-flammable.

#### ROUTE OF ENTRY:

Skin Contact  
No

Skin Absorption  
No

Eye Contact  
No

Inhalation  
Yes

Ingestion  
No

#### HEALTH EFFECTS:

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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### INGESTION EFFECTS:

Ingestion unlikely. Gas at room temperature.

### INHALATION EFFECTS:

This product is nontoxic. Inhalation of high concentrations may have a narcotic-like effect.

### NFPA HAZARD CODES

Health: 1  
Flammability: 0 (4 as propane)  
Reactivity: 0

### HMIS HAZARD CODES

Health: 1  
Flammability: 0 (4 as propane)  
Reactivity: 0

### 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 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. 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 24 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:  | Compressed Gas N.O.S.<br>(Propane in Air) | Compressed Gas N.O.S.<br>(Propane in Air) |
| HAZARD CLASS:          | 2.2                                       | 2.2                                       |
| IDENTIFICATION NUMBER: | UN1956                                    | UN1956                                    |
| SHIPPING LABEL:        | NONFLAMMABLE GAS                          | NONFLAMMABLE GAS                          |

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### 15. REGULATORY INFORMATION

Classified non-flammable/non-toxic according to Directives 88/379/EEC, 67/548/EEC and the UK's CHIP 96 Regulations.

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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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