



## MATERIAL SAFETY DATA SHEET - CALIBRATION CHECK GAS

**PRODUCT NAME: ETHANOL (0.01 PPM TO 1000 PPM) IN AIR**

MSDS NO: 68

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

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

PRODUCT NAME: ETHANOL (0.01 PPM TO 1000 PPM) IN AIR  
CHEMICAL NAME: ETHANOL in Air  
COMMON NAMES/ SYNONYMS: None  
TDG (Canada) CLASSIFICATION: 2.2  
WHIMIS CLASSIFICATION: A

### 2. COMPOSITION/ INFORMATION ON INGREDIENTS

INGREDIENT	PPM VOLUME	PEL-OSHA	TLV-ACGIH	LD <sub>50</sub> or LC <sub>50</sub> Route/Species
ETHANOL FORMULA: C <sub>2</sub> H <sub>6</sub> O	0.01 to 1000	Simple Asphyxiate	Simple Asphyxiate	N/A
Air FORMULA: Mixture	Mixture	N/A	N/A	N/A

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Compressed gas-Nonflammable. Product contains sufficient oxygen to support combustion.

#### ROUTE OF ENTRY:

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

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

#### EYE EFFECTS:

None known.

#### SKIN EFFECTS:

None known.



## MATERIAL SAFETY DATA SHEET - CALIBRATION CHECK GAS

**PRODUCT NAME: ETHANOL (0.01 PPM TO 1000 PPM) IN AIR**

### INGESTION EFFECTS:

Ingestion unlikely. Gas at room temperature.

### INHALATION EFFECTS:

None expected. This product does not contain sufficient ETHYLENE to displace atmospheric oxygen.

### NFPA HAZARD CODES

Health: 0  
Flammability: 0 (4, as ETHANOL)  
Reactivity: 0

### HMIS HAZARD CODES

Health: 0  
Flammability: 0 (4, as ETHANOL)  
Reactivity: 0

### RATING SYSTEM

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

---

## 4. FIRST AID MEASURES

### EYES:

None required.

### SKIN:

None required.

### INGESTION:

Product is a gas.

### INHALATION:

None required for use at normal atmospheric pressures.

---

## 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.

---

## 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.

---

## 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).

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Use adequate ventilation for extended use of gas.



**PRODUCT NAME: ETHANOL (0.01 PPM TO 1000 PPM) IN AIR**

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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

**10. STABILITY AND REACTIVITY**

Stable under normal conditions. Expected shelf life 48 months.

**11. TOXICOLOGICAL INFORMATION**

No known toxicological effects form this product.

**12. ECOLOGICAL INFORMATION**

No ecological damage caused by this product.

**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.

**14. TRANSPORT INFORMATION**

	<u>United States DOT</u>	<u>Canada TDG</u>
PROPER SHIPPING NAME:	Compressed Gas N.O.S. (ETHANOL in Air)	Compressed Gas N.O.S. (ETHANOL in Air)
HAZARD CLASS:	2.2	2.2
IDENTIFICATION NUMBER:	UN1956	UN1956
SHIPPING LABEL:	NONFLAMMABLE GAS	NONFLAMMABLE GAS

**15. REGULATORY INFORMATION**

ETHANOL is listed under the accident prevention provisions of section 112(r) of the Clean Air Act (CAA) with a threshold quantity (TQ) of 10,000 pounds.

**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.

**MSDS/S010/62/ March, 2012**