

# PRODUCT NAME: PENTANE (0- 0.75%), CARBON MONOXIDE (0.0005- 1.0%), OXYGEN (0.0015- 23.5%), BALANCE NITROGEN

MSDS NO: 325 Version:3 Date: March, 2012

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## 1. Chemical Product and Company Identification

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

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PRODUCT NAME: MULTI-MIX

CHEMICAL NAME: Pentane, Carbon Monoxide, Oxygen in Nitrogen

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
Pentane FORMULA: C <sub>5</sub> H <sub>12</sub>	0 to 0.75%	1000 ppm TWA	600 ppm	LC <sub>50</sub> 364 g/m <sup>3</sup> / 4 hours (rat)
Carbon Monoxide FORMULA: CO	0.0005 to 1.0%	50 ppm	25 ppm	1811 ppm/ 4 hours (rat)
Oxygen FORMULA: O <sub>2</sub>	0.0015 to 23.5%	N/A	N/A	N/A
Nitrogen FORMULA: N₂	Balance	Simple Asphyxiate	Simple Asphyxiat	e N/A

## 3. HAZARDS IDENTIFICATION

## **EMERGENCY OVERVIEW**

This product is a colorless gas with a slight sweet smell. Carbon monoxide are toxic to humans in relatively low concentrations. Over-exposure can cause skin or eye irritation, nausea, dizziness, headaches, collapse, unconsciousness, coma, and death. Pentane can cause anesthetic or peripheral neuropathy effects. Additionally, releases of this product may produce oxygendeficient atmospheres which may cause asphyxiation.



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#### **ROUTE OF ENTRY:**

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

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

#### **EYE EFFECTS:**

N/A

#### **SKIN EFFECTS:**

Over-exposure to carbon monoxide can be indicated by the lips and fingernails turning bright red.

#### **INGESTION EFFECTS:**

Ingestion unlikely. Gas at room temperature.

#### **INHALATION EFFECTS:**

Due to the small size of this cylinder, no unusual heath effects from over-exposure are anticipated under routine circumstances of use. Exhilaration, dizziness and headache can occur when over-exposed to Pentane. Long term exposure to Pentane can cause chronic neurological disorders causing damage to the nerves in the hands and feet. At 12- 16% Oxygen, breathing and pulse rate is increased, muscular coordination is slightly disturbed.

NFPA HAZARD CODES		HMIS HAZARD	CODES	RATING SYSTEM	
Health: Flammability: Reactivity:	3 0 0	Health: Flammability: Reactivity:	3 0 0	0= No Hazard 1= Slight Hazard 2= Moderate Hazard 3= Serious Hazard 4= Severe Hazard	

## 4. FIRST AID MEASURES

#### EYES:

PERSONS WITH POTENTIAL EXPOSURE SHOULD NOT WEAR CONTACT LENSES. Flush contaminated eyes with copious quantities of water. Part eyelids to assure complete flushing. Continue for a minimum of 15 minutes. Seek immediate medical attention.

## SKIN:

Remove contaminated clothing as rapidly as possible. Flush affected area with copious quantities of water. Seek immediate medical attention.

## INGESTION:

Not required

## INHALATION:

PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASED OF OVEREXPOSURE. RESCUE PERSONNEL SHOULD BE EQUIPPED 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.

#### 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PARAMETER: VALUE:
Physical state : Gas
Evaporation point : N/A
pH : N/A

Odor and appearance : Colorless gas with a slight sweet smell

## 10. STABILITY AND REACTIVITY

Stable under normal conditions. Expected shelf life 48 months.

#### 11. TOXICOLOGICAL INFORMATION

This gas mixture contains components that may cause embryotoxic effects in humans; however, due to the small size of the cylinder no toxicological damage is anticipated.

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## 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.



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## 14. TRANSPORT INFORMATION

United States DOT Canada TDG

PROPER SHIPPING NAME: Compressed Gas N.O.S. Compressed Gas N.O.S. (Carbon Monoxide, Nitrogen) (Carbon Monoxide, Nitrogen)

HAZARD CLASS: 2.2 2.2

IDENTIFICATION NUMBER:UN1956UN1956SHIPPING LABEL:NONFLAMMABLE GASNONFLAMMABLE GAS

## 15. REGULATORY INFORMATION

The components of this product are 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 each.

## 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/S010/325/ March, 2012