

Date Issued: July 1, 2012

Global Gas, Inc. Material Safety Data Sheet

NOTE: Read and understand Material Safety Data Sheet before handling or disposing of product.

1. Chemical Product and Company Identification

Material Identity

Product Name: Propane

Chemical Name and/or Family or Description: Aliphatic Hydrocarbon

Supplier's Name and Address:

Global Gas, Inc.

383 Inverness Parkway

Suite 100

Englewood, CO 80112-5816

Phone (303) 790-2661

Fax (303) 790-2664

2. Composition/Information on Ingredients

The criteria for listing components in the composition section are as follows:

Carcinogens are listed when present at 0.1% or greater; components which are otherwise hazardous according to OSHA are listed when present at 1.0% or greater, nonhazardous components are listed at 3.0% or greater. This is not intended to be a complete compositional disclosure. Refer to Section 14 for applicable states right to know and other regulatory information.

Product and/or Component(s) Carcinogenic According to:

OSHA	IARC	NTP	OTHER	NONE
-	-	-	-	X

Composition: (Sequence Number and Chemical Name)

<u>Seq.</u>	<u>Chemical Name</u>	<u>CAS Number</u>	<u>Range in %</u>
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This product may be odorized. The odorant content may vary from 0-50 ppm; common odorants include mercaptans and thiopane.

01 *	Propane	74-98-6	100.00
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Product is hazardous according to OSHA (1910.1200).

*** Component is hazardous according to OSHA.**

Exposure Limits reference by Sequence Number in the Composition Section

<u>Seq.</u>	<u>Limit</u>
01	1000 ppm TWA-OSHA

3. Hazard Identification

Emergency Overview

Appearance: Gas

Odor: If odorized, will have rotten egg odor - otherwise, odorless

Warning Statement

Danger: **Flammable Gas - May Cause Flash Fire**
Liquid may cause frostbite
May cause dizziness and drowsiness
Gas reduces oxygen available for breathing
Gas may accumulate in confined spaces and cause suffocation
May cause respiratory tract irritation

HMIS		NFPA	
Health: 1	Reactivity: 0	Health: 1	Reactivity: 0
Flammability: 4	Special: -	Flammability: 4	Special: -

Potential Health Effects

	<u>EYE</u>	<u>SKIN</u>	<u>INHALATION</u>	<u>INGESTION</u>
Primary Route of Exposure:	X	X	X	-

Effects of Overexposure

Acute:

Eyes: Eye contact with liquid product or gas under pressure can cause frostbite (cold burns).

Skin: Brief contact is not irritating.

Product is a gas - not expected to be absorbed through the skin.

Skin contact with liquid product can cause frostbite (cold burns).

Inhalation:

Gas may be irritating and cause discomfort in nose and throat, nasal discharge, and coughing. Prolonged overexposure may cause difficulty breathing. Inhalation may cause dizziness, drowsiness, euphoria, loss of coordination, disorientation, headache, nausea, and vomiting. In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result.

Ingestion:

This material is a gas under normal atmospheric conditions and ingestion is unlikely, however, if ingestion does occur, call a physician immediately.

This material is a gas. Gas or liquid under pressure may cause frostbite (cold burns).

Sensitization Properties:

Unknown

Chronic:

No adverse effects have been documented in humans as a result of chronic exposure. Section 11 may contain applicable animal data.

Medical Conditions Aggravated by Exposure:

There is no evidence that this product aggravates an existing medical condition.

Other Remarks:

If purchased for consumer use, contains or may release alkyl mercaptans (e.g., methyl mercaptan, ethyl mercaptan). Mercaptan concentrations above permissible concentrations can cause headache, dizziness, nausea, vomiting, and diarrhea. At concentrations above 400 ppm, respiratory paralysis, causing unconsciousness and death can occur.

“Empty” Container Warning:

Empty containers retain residue (liquid and/or vapor) and can be dangerous. **DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.** Do not attempt to clean since residue is difficult to remove. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks, refer to Occupational Safety and Health Administration regulations, ANSI 249.1 and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

4. First Aid Measures

Eyes: Flush eyes with plenty of water for several minutes. Seek medical attention if eye irritation persists.

Skin: Wash skin with plenty of soap and water for several minutes. Seek medical attention if skin irritation develops or persists. In case of cold burn, immediately place affected area in warm water (105° F) and keep at this temperature until circulation returns. Seek medical attention.

Ingestion:

No emergency care anticipated. This material is a gas at standard temperature and pressure.

Inhalation:

If inhaled, remove to fresh air. If not breathing, clear person airway and give artificial respiration. If breathing is difficult, qualified medical personnel may administer oxygen. Seek medical attention immediately.

Other Instructions:

Overexposure to this material may sensitize the heart to catecholamine-induced arrhythmias. Do not administer catecholamines to overexposed individuals. Contact a Poison Control Center for further treatment information.

This material is an asphyxiant which may have anesthetic properties at high concentrations. If present in sufficient concentrations to reduce the oxygen level below 18% in inhaled air, rapid respiration, mental dullness, incoordination, poor judgment, nausea, and unconsciousness may

result. Oxygen deficiency may occur without warning in areas where this gas may displace air.

NOTE TO EMERGENCY RESPONDERS: The odor or mercaptans such as methyl mercaptan or ethyl mercaptan is offensive and similar to rotten eggs. The presence of odors is not a reliable warning signal. DO NOT use odor to estimate the amount of mercaptan vapors present.

Clothing contaminated with liquefied flammable gases may give rise to delayed evaporation and cause a subsequent fire hazard. Drench individuals with water and remove contaminated clothing if possible. Slowly warm affected area of skin. Do not attempt to reheat rapidly.

5. Fire-fighting Measures

Ignition Temperature (degrees F): 874°

Flash Point (degrees F): -156°

Flammable Limits (%): Lower: 2.3 Upper: 9.5

Recommended Fire Extinguishing Agents and Special Procedures:

Fight fire from protected location or maximum possible distance. Stop flow of gas before attempting to extinguish flames. Use water spray to cool fire-exposed containers and to protect persons attempting to stop the flow of gas. Use flooding quantities of water as fog or spray. Use dry chemical or carbon dioxide or halon to extinguish flames. Use caution when applying carbon dioxide or halon in confined spaces.

Unusual or Explosive Hazards:

Danger! Readily forms explosive air-vapor mixtures; may release explosive vapors that travel, be ignited at remote locations, and flash back. Vapors are heavier than air and can accumulate in low areas. Containers may explode in fire. Do not expose to heat, sparks, flame, static electricity, or other sources of ignition. When handling, use non-sparking tools, ground and bond all containers.

Special Protective Equipment for Firefighters:

Wear full protective clothing and positive pressure breathing apparatus.

6. Environmental Procedures

Spills or releases:

Procedures in case of Accidental Release, Breakage or Leakage:

Eliminate all ignition sources including internal combustion engines and power tools. Ventilate area. Keep people away. Stay upwind and warn of possible downwind explosion hazard. Avoid breathing vapor. Avoid contact with eyes, skin or clothing. Pressure demand air supplied respirators should always be worn when the airborne concentration of the contaminant or oxygen is unknown. Otherwise, wear respiratory protection and other personal protective equipment as appropriate for the potential exposure hazard.

If material is spilled or released to the atmosphere, steps should be taken to contain and control or stop the loss of volatile materials to the atmosphere. Spills or releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.

Disposal:

Clean-up action should be carefully planned and executed. Shipment, storage and/or disposal of waste materials are regulated and action to handle spilled or released materials must meet all applicable local, state, and federal rules and regulations. If any questions exist, the appropriate agencies should be contacted to assure proper action is being taken. Waste products and contaminated material will be considered a hazardous waste if the flash point is less than 140 degrees F requiring disposal at an approved waste facility.

7. Handling and Storage

Precautions to be Taken in Handling:

Use spark-proof tools. Material may be at elevated temperatures and/or pressures. Exercise care when opening bleeders and sampling ports.

Storage:

Ground and bond shipping container, transfer line, and receiving container. Keep away from heat, sparks, flame, and other sources of ignition.

8. Exposure Controls/Personal Protection

Protection Equipment (Type)

Eye/Face Protection:

Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin Protection:

Prevent potential skin contact with cold liquid/solid/vapors. Use insulated, impervious plastic or neoprene-coated canvas gloves and protective gear (apron, face shield, etc.) to protect hands and other skin areas. Boots resistant to chemicals and petroleum distillates are required.

Respiratory Protection:

Airborne concentrations should be kept to lowest levels possible. If vapor, mist, or dust is generated and the occupational exposure limit of the product, or any component of the product is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen is unknown.

Ventilation:

Use explosion-proof equipment to maintain adequate ventilation to meet occupational exposure limits, if applicable (see below), prevent accumulation of explosive air-gas mixtures, and avoid significant oxygen displacement. Oxygen levels should be at least 19.5% in confined spaces or other work areas (OSHA value).

Exposure Limit for Total Product:

Propane: OSHA PEL-TWA 1000 ppm.

Other:

Information on electrical equipment appropriate for use with this product may be found in the

latest edition of the National Electrical Code (NFPA-70). This document is available from the National Fire Protection Association.

9. Physical and Chemical Properties

Appearance: Gas

Odor: If odorized, will have rotten egg odor - otherwise, odorless.

Boiling Point (degrees F): -44

Melting/Freezing Point (degree F): -306

Specific Gravity (water = 1): .5074

pH of Undiluted Product: Not applicable.

Vapor pressure: 7600 mmHg at 80.6

Viscosity: Not applicable

VOC Content: Not determined

Vapor Density (air=1): 1.5

Solubility in Water (%): <.1

Evaporation Rate, Butyl Acetate = 1: Gas at normal ambient conditions

Molecular Weight: Approximately 44

Other: None

10. Stability and Reactivity

This Material Reacts Violently With:

(If others are checked below, see comments for details)

Air	Water	Heat	Strong Oxidizers	Others	None of These
-	-	X	X	-	-

Comments: None

Products Evolved When Subjected to Heat or Combustion:

Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones.

Hazardous Polymerizations: DO NOT OCCUR

11. Toxicological Information

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

Median Lethal Dose

Oral: Not applicable; material is a gas.

Inhalation: Not determined.

Dermal: Not applicable; material is a gas.

Irritation Index, Estimation of Irritation (Species)

Skin: (Draize) Believed to be <.50/8.0 (rabbit) no appreciable effect.

Eyes: (Draize) Believed to be <15.00/110 (rabbit) no appreciable effect.

Sensitization: Not determined

Other: None

12. Disposal Considerations

Waste Disposal Methods

This product (as presently constituted) has the RCRA characteristics of ignitability, and, if discarded in its present form, would have the hazardous waste number of D001. Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may change the classification to nonhazardous, or hazardous for reasons other than, or in addition to, ignitability.

Remarks: Do not allow to enter drains or sewers, can cause explosion.

13. Transport Information

Transportation

DOT:

Proper Shipping Name: Propane

Hazard Class: 2.1

Identification Number UN 1978 (UN1075)

Packing Group:

Label Required: Flammable Gas

This product contains a DOT Hazardous Substance or substances, listed in Section 14 of the MSDS. DOT information must be accompanied with RQ notation, or an otherwise Not Regulated product will be classified as Environmentally Hazardous (solid/liquid) N.O.S., Class 9, if the products shipping container holds at least (lbs) 2,000,000.

IMDG:

Proper Shipping Name: Not evaluated

ICAO:

Proper Shipping Name: Not evaluated

TDG:

Proper Shipping Name: Not evaluated

14. Regulatory Information

Federal Regulations:

SARA Title III:

Section 302/304 Extremely Hazardous Substances

<u>Seq.</u>	<u>Chemical Name</u>	<u>CAS Number</u>	<u>Range in %</u>
01	Methyl mercaptan (if odorized - 50 ppm max)	74-93-1	0.005

Section 302/304 Extremely Hazardous Substances (Continued)

<u>Seq.</u>	<u>TPO</u>	<u>RQ</u>
01	500	100

Section 311 Hazardous Categorization:

Acute	Chronic	Fire	Pressure	Reactive	N/A
X	-	X	X	-	-

Section 313 Toxic Chemical

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Concentration</u>
None		

CERCLA 102(a)/DOT Hazardous Substances: (+ indicates DOT Hazardous Substance)

<u>Seq.</u>	<u>Chemical Name</u>	<u>CAS Number</u>	<u>Range in %</u>
01+	Methyl mercaptan (if odorized - 50 ppm max)	74-93-1	0.005

CERCLA/DOT Hazardous Substances (Sequence Numbers and Ra's)

<u>Seq.</u>	<u>RQ</u>
01+	100

TSCA Inventory Status:

This product is listed on the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Other:

None

State Regulations:

California Proposition 65:

The following detectable components of this product are substances, or belong to classes of substances, known to the State of California, to cause Cancer and/or reproductive toxicity.

<u>Chemical Name</u>	<u>CAS Number</u>
None	

States Right-to-know Regulations:

Chemical Name
Propane

State Right-to-know
All

International Regulations:

Export Notification (TSCA-12b):

This product may be subject to export notification under TSCA section 12(b); contains:
Methyl mercaptan (if odorized-50 ppm max)

WHMIS Classification:

Class A: compressed gas

Class B, Div 1: Flammable gas

Canada Inventory Status

All components are listed on the Canadian Domestic Substance List (DSL).

EINECS Inventory Status:

All components are listed on the European Inventory of Existing Chemical Substances (EINECS).

Australia Inventory Status:

N.D.

Japan Inventory Status:

N.D.

15. Environmental Information

Aquatic Toxicity: Not determined.

Mobility: Not applicable.

Persistence and Biodegradability: Not applicable.

Potential to Bioaccumulate: Not applicable.

Remarks: None.

16. Other Information

Dispose of as a vapor, venting at a safe location, keeping gas below explosive limit (LEL).

The information below is given to call attention to the issue of “naturally occurring radioactive materials”. Although radon-222 levels in this product do not present any direct radon exposure, customers should be aware of the potential of radon daughter product buildup within their processing streams whatever the source of their product streams.

Radon-222 is a naturally occurring radioactive gas which can be a contaminant in natural gas. During subsequent processing, radon tends to be concentrated in the liquefied petroleum gas stream and in product streams having a similar boiling point range. Industry experience has

shown that this product may contain small amounts of radon-222 and its radioactive decay products, called radon “daughters”. The actual concentration of radon-222 and radioactive daughters in the process equipment (i.e. lines, filters, pumps and reactor units) may accumulate significant levels of radioactive daughters and show a gamma radiation reading during operation. A potential external radiation hazard exists at or near any pipe, valve, or vessel containing a radon-enriched stream or containing internal deposits of radioactive material, due to the transmission of gamma radiation through its wall.

Field studies in the literature and conducted by Industry personnel at selected sites, have not shown any conditions that subject workers to cumulative exposures in excess of general population limits. Equipment emitting gamma radiation should be presumed to be internally contaminated with alpha-emitting decay products which may be a hazard if inhaled or ingested. During maintenance operations that require the opening of contaminated process equipment, the flow of gas should be stopped and a four hour delay enforced to allow the gamma radiation to drop to background levels. Protective equipment, e.g. coveralls, gloves and respirator (NIOSH/MSHA approved for high efficiency particulates and radionuclides, or supplied air) should be worn by personnel entering a vessel or working on contaminated process equipment to prevent skin contamination, ingestion or inhalation or any resident containing alpha radiation. Airborne contamination may be minimized by handling scale and/or contaminated materials in a wet state.

NFPA No. 58 requires odorization of propane sold for general consumer use. Odorization provides a method of detection in the event of a leak. Common odorants include ethyl mercaptan and thiopane. A brief summary of the safety information regarding the odorant is provided there. For more detailed information, please refer to the reference section. Do not rely on odor to warn of presence of gas. It is important to note that no odorant is effective 100% of the time under all conditions. The effectiveness of the odorant can be reduced by exposure to small amounts of oxygen, moisture, rust, or scale. In addition, the odorant may be absorbed by soil, new tank surfaces, new piping, or certain building materials such as masonry. Whenever an empty tank is filled, it must be completely purged in accordance with NPGA bulletin 133-89 to remove air and water. The integrity of underground pipes should be checked periodically. If propane leaks from an underground pipe, the soil may absorb the odorant as the gas migrates to the surface, which could leave the gas undetected by smell. If a propane system has not been used for an extended period, it should be thoroughly checked before continuing use.

It is important that you periodically remind your customers and employees that even though ethyl mercaptan has been recognized as the best available odorant for propane, no odorant is effective 100% of the time.

Certain physical circumstance such as colds, allergies, smoking, alcohol, age or strong competing odors may affect a person's ability to smell any odor. In addition, as with any odor, continued exposure to propane odorant can reduce a person's ability to detect the odorant.

NPGA Bulletin No. 133-80 “Purging New Containers”

NFPA Bulletin No. 58 “Storage and Handling of Liquefied Petroleum Gas”

Dealers: Your customers should be familiar with the smell of the odorant and their ability to smell it. Electronic gas detectors (that emit a shrill sound in the presence of gas) should

be recommended to your customers as an additional safety measure for detecting leaks.

The information contained herein is believed to be accurate. It is provided independently of any sale of the products for purpose of hazard communication as part of Globe's product safety program. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein. You are encouraged and requested to advise those who may come in contact with such products of the information contained herein.

To determine applicability or effect of any law or regulation with respect to the product, user should consult their legal advisor or the appropriate government agency. Global Gas does not undertake to furnish advice on such matters.

Inquiries regarding MSDS should be directed to:

Global Gas, Inc.
383 Inverness Parkway
Suite 100
Englewood, CO 80112-5816

17. Product Label

Read and understand Material Safety Data Sheet before handling or disposing of product. This label complies with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) for use in the workplace. This label is not intended to be used with packaging intended for sale to consumers and may not conform to the requirements of the Consumer Product Safety Act or other related regulatory requirements.

Propane

Warning Statement Danger!

Flammable Gas - May cause flash fire
Liquid may cause frostbite
May cause dizziness and drowsiness
Gas reduces oxygen available for breathing
Gas may accumulate in confined spaces and cause suffocation
May cause respiratory tract irritation

Precautionary Measures

- Keep away from heat, sparks or flame.
- Use only with adequate ventilation
- This gas deadens sense of smell. Do not depend on odor to detect presence of gas.
- Do not enter storage areas or confined spaces unless adequately ventilated.
- Use supplies air respiratory protection for cleaning large spills or upon entry into tanks, vessels, or other confined spaces.
- Avoid breathing vapor, mist, or gas.
- Wear insulated gloves if contact with liquid cooled equipment is expected.
- Keep container closed.
- Workers should wash exposed skin several times daily with soap and water.

First Aid Measures

Eye Contact:

Flush eyes with plenty of water for several minutes. Seek medical attention if eye irritation persists.

Skin Contact:

Wash skin with plenty of soap and water for several minutes. Seek medical attention if skin irritation develops or persists. In case of cold burn, immediately place affected area in warm water (105° F) and keep at this temperature until circulation returns. Seek medical attention.

Ingestion:

No emergency care anticipated. This material is a gas at standard temperature and pressure.

Inhalation:

If inhaled, remove to fresh air. If not breathing, clear person's airway and give artificial respiration. If breathing is difficult, qualified medical personnel may administer oxygen. Seek medical attention immediately.

Note to Physician:

Overexposure to this material may sensitize the heart to catecholamine-induced arrhythmias. Do not administer catecholamines to overexposed individuals. Contact a Poison Control Center for further treatment information.

This material is an asphyxiant which may have anesthetic properties at high concentrations. If present in sufficient concentrations to reduce the oxygen level below 18% in inhaled air, rapid respiration, mental dullness, incoordination, poor judgement, nausea, and unconsciousness may result. Oxygen deficiency may occur without warning in areas where this gas may displace air.

Fire

In case of fire, use dry chemical or carbon dioxide to extinguish flames. Use water spray to keep container cool and protect personnel attempting to stop the flow of gas.

If more than 2,000,000 pounds of product is spilled, then report spill according to SARA 304 and CERCLA 102(A) requirements.

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Range in %</u>
This product may be odorized. The odorant content may vary from 0-50 ppm; common odorants include mercaptans and thiopane.		
Propane	74-98-6	100.00

Product is hazardous according to OSHA (1910.1200).

** Component is hazardous according to OSHA.*

<u>Pennsylvania Special Hazardous Substance (s)</u>	<u>CAS Number</u>	<u>Range in %</u>
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None

<u>HMIS</u>		<u>NFPA</u>	
Health: 1	Reactivity: 0	Health: 1	Reactivity: 0
Flammability: 4	Special: -	Flammability: 4	Special: -

Transportation

DOT:

Proper Shipping Name: Propane

Hazard Class: 2.1

Identification Number UN 1978 (UN1075)

Packing Group:

Label Required: Flammable Gas

This product contains a DOT Hazardous Substance or substances, listed in Section 14 of the MSDS. DOT information must be accompanied with RQ notation, or an otherwise Not Regulated product will be classified as Environmental Hazardous (solid/liquid) N.O.S., class 9, if the product shipping container holds at least (lbs) 2,000,000.

Caution: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding or empty containers might cause fire, explosion, or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

Supplier's Name and Address:

Global Gas, Inc.

383 Inverness Parkway

Suite 100

Englewood, CO 80112-5816

(303) 790-2661

Appendix

Global Gas, Inc. Definitions of Material Safety Data Sheet Terminology

The following abbreviated definitions are provided to assist in the interpretation of the information supplied on the Material Safety Data Sheet.

NFPA

National Fire Protection Association

W	Do not pour water into acid: Severe reaction can occur with water
CAS Number	American Chemical Society's Chemical Abstract service registry number which identifies the product and/or ingredients.
DOT Hazard Class	Department of Transportation hazard classification.
RQ	Reportable quantity in pounds
N/A	Not available or no relevant information found
NA	Not applicable
N.D.	Not determined
N.T.	Not tested
Hazardous Ingredients	Name of ingredients, which have been identified as health hazards
PEL	OSHA permissible exposure limit and action level of one half this value may be applicable
TLV	ACGIH threshold limit value
IDLH	Immediate danger to life or health
TWA	The time weighted average concentration for exposure to a substance
STEL	The ACGIH short-term exposure limit, a 15-minute time weighted average exposure which should not be exceeded at any time during a workday as long as the 8-hour time weighted average is less than the TLV.
Ceiling	The concentration that should not be exceeded during any part of the working exposure.
<	Less than stated value
>	Greater than stated value
~	Approximately
TSCA	EPA Toxic Substances Control Act
IARC	International Agency for Research on Cancer
NTP	National Toxicology Program
EPA	Environmental Protection Agency
OSHA	Occupational Safety and Health Administration

ACGIH	American Conference of Governmental Industrial Hygienists
NIOSH	National Institute of Occupational Safety and Health
MSHA	Mine Safety and Health Administration
Acute Hazard	An adverse health effect which usually occurs rapidly as a result of short term exposure.
Chronic Hazard	An adverse health effect which generally occurs as a result of long term exposure or short term exposure with delayed health effects and is of long duration.
Fire Hazard	A material that poses a physical hazard by being flammable, combustible, pyrophoric, or an oxidizer as defined as defined by 29 CFR 1910.1200.
Pressure Hazard	A material that poses a physical hazard due to the potential of a sudden release of pressure such as explosive or a compressed gas as defined by 29 CFR 1910.1200.
Reactive Hazard	A material that poses a physical hazard due to the potential to become unstable reactive, water reactive or that is an organ peroxide as defined by 29 CFR 1910.1200.
SARA	Superfund Amendments and Reauthorization Act
CFR	Code of Federal Regulation
TDG	Transportation of Dangerous Goods regulation (Canada)
HMIS	Hazardous Materials Information System
AO	International Civil Aviation Organization
WHMIS	Workplace Hazardous Material Information System (Canada)

Global Gas, Inc. Environmental Data Sheet

Product: Propane - HD - 5

<u>Section 1</u>		<u>Product/Composition</u>	
No.	Component	CAS Number	Percent
P	Propane - HD - 5	Mixture	100
1	Propane, min.	74-98-6	90
2	Propylene	115-07-1	0-5

3 Butane (and heavier) 106-97-8 0-2.5

Section II Sara Title III Information

No.	EHS RQ (lbs) (*1)	EHS TPA (lbs) (*2)	Sec 313 (*3)	313 Category (*4)	311/312 Categories (*5) H-1, H-2, P-3, P-4
P 2			Yes		

Footnotes

- *1 = Reportable quantity of extremely hazardous substance, SEC. 302
- *2 = Threshold planning quantity, extremely hazardous substance, SEC 302
- *3 = Toxic chemical, SEC 313
- *4 = Category as required by SEC 313 (40 CFR 372.65 C), must be used on toxic release inventory form
- *5 = Hazard category for SARA SEC 311.312 Reporting
 - Health H-1 = Immediate (Acute) Health Hazard
 - H-2 = Delayed (Chronic) Health Hazard
 - Physical P-3 = Fire Hazard
 - P-4 = Sudden Release of Pressure Hazard
 - P-5 = Reactive Hazard

Section III Environmental Release Information

None identified

Section IV RCRA Information

Under EPA-RCRA (40 CFR261.21), if this product becomes a waste material, it would be ignitable hazardous waste, hazardous waste, number D001. Refer to the latest EPA or state regulations regarding proper disposal. Under EPA-RCRA, containers of this material are considered hazardous unless depressed to a pressure approaching atmospheric. Containers should be depressed at a controlled rate to a flare or incineration.

The information contained herein is based on the data available to us and is believed to be correct. However, Global Gas makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Global Gas assumes no responsibility for injury from the use of the product described herein.

Date Prepared: July 1, 2012

Global Gas, Inc.
383 Inverness Parkway
Suite 100
Englewood, CO 80112-5816

For additional information on this environmental data, please call (303) 790-2661.