

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 00015
Product Name: Natural Gas (CNG)
Company Name: Gas Innovations
 18005 E. Hwy 225
 La Porte, TX 77571
Phone Number: +1 (281)471-2200
Web site address: www.gasinnovations.com
Emergency Contact: 3E (within United States) +1 (866)303-2640
Information: Infotrac (outside of United States) +1 (352)323-3500
Synonyms: UN1971 Natural Gas, Compressed.

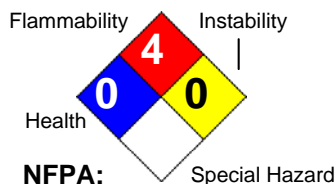
2. HAZARDS IDENTIFICATION

Gas Under Pressure, Compressed gas
Flammable Gases, Category 1



GHS Signal Word: Danger
GHS Hazard Phrases: H220 - Extremely flammable gas.
 H280 - Containers gas under pressure; may explode if heated.
GHS Precaution Phrases: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
GHS Response Phrases: P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
 P381 - Eliminate all ignition sources if safe to do so.
GHS Storage and Disposal Phrases: P410+403 - Protect from sunlight and store in well-ventilated place.

Hazard Rating System:



Potential Health Effects (Acute and Chronic):

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. This material can act as a simple asphyxiant by displacement of air.
Skin Contact: May cause skin irritation.
Eye Contact: May cause eye irritation.
Ingestion: Not a likely route of exposure.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
74-82-8	Methane	>94.0 %
74-84-0	Ethane	~3.10 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation:	If breathed in, move person into fresh air. If not breathing give artificial respiration. Mouth-to-mouth resuscitation should be used immediately for a victim of methane asphyxiation. Get immediate medical advice/attention.
In Case of Skin Contact:	Wash off with soap and plenty of water. If skin irritation occurs, get medical advice/attention.
In Case of Eye Contact:	Flush eyes with water as a precaution.
In Case of Ingestion:	Not a likely route of exposure. Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Note to Physician:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

5. FIRE FIGHTING MEASURES

Flash Pt:	-306 F (-188 C) Method Used: Unknown
Explosive Limits:	LEL: 5% (V) UEL: 15% (V)
Autoignition Pt:	900 F (482 C)
Suitable Extinguishing Media:	Stop the flow of gas. Dry chemical or CO2. For large fires use water spray, water fog, or appropriate foam.
Fire Fighting Instructions:	Personnel may have to wear approach-type protective suits and positive pressure self-contained breathing apparatus. Firefighters' turnout gear may be inadequate. Cylinders exposed to fire may rupture with violent force. Extinguishing surrounding fire and keep cylinders cool by applying water from a maximum possible distance with a water spray. Flammable gases may spread from a spill after the fire is extinguished and be subject to re-ignition. A hazard from reignition exists if flame is extinguished without stopping the flow of gas and/or cooling (with water) the surrounding and eliminating ignition sources.
Flammable Properties and Hazards:	Fire conditions can result in the formation of carbon monoxide and carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Steps To Be Taken In Case Material Is Released Or Spilled:	Natural gas is lighter than air and freely dissipates. Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of ignition. Stop leak if you can do it without risk. Prepare for possible ignition. Avoid breathing vapors, mist or gas. Ventilate enclosed areas to reduce explosion hazard. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Natural gas is contained in piping and equipment designed to withstand elevated pressures. Use explosion-proof, Class I Group D electrical equipment. Take measures to prevent the build up of electrostatic charge. Keep away from heat and sources of ignition. Keep away from oxidizing agents. NO SMOKING IN AREAS OF USE.
Precautions To Be Taken in Storing:	Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Contents under pressure. Keep away from heat and sources of ignition. Keep away from oxidizing agents.

NO SMOKING IN AREAS OF USE.

Other Precautions: Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
74-82-8	Methane	No data.	TLV: Simple asphyxiant ppm	No data.
74-84-0	Ethane	No data.	TLV: Simple asphyxiant ppm	No data.
Respiratory Equipment (Specify Type):	In immediately dangerous to life or health (IDLE) atmospheres, in enclosed areas, or immediately adjacent to blowing natural gas, self-contained breathing apparatus or supplied air with escape bottled is needed.			
Eye Protection:	Face shield and safety glasses.			
Protective Gloves:	For prolonged or repeated contact use protective gloves.			
Other Protective Clothing:	Choose body protection according to the amount and concentration of the dangerous substance at the work place.			
Engineering Controls (Ventilation etc.):	Gas displaces the air and causes a deficiency of oxygen and the possibility of asphyxiation. Use explosion-proof ventilation equipment. Use oxygen monitors to ensure adequate oxygen levels and combustible gas indicators to check for explosive atmosphere.			
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[X] Gas [] Liquid [] Solid		
Appearance and Odor:	Appearance: colorless. Odor: Odorless. Gas. Mercaptan-like odor. Tasteless. Lighter than air.		
Freezing Point:	-296 F (-182 C)		
Boiling Point:	-259 F (-162 C)		
Autoignition Pt:	900 F (482 C)		
Flash Pt:	-306 F (-188 C) Method Used: Unknown		
Explosive Limits:	LEL: 5% (V) UEL: 15% (V)		
Specific Gravity (Water = 1):	NA		
Density:	NA		
Vapor Pressure (vs. Air or mm Hg):	760 MM_HG at -161 C (-258 F)		
Vapor Density (vs. Air = 1):	0.6		
Evaporation Rate:	NA		
Solubility in Water:	Insoluble		
Saturated Vapor Concentration:	NA		
Viscosity:	108.7 uP at 20.0 C (68.0 F)		
pH:	NA		
Percent Volatile:	100 % by volume.		

10. STABILITY AND REACTIVITY

Reactivity:	Fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Heat, flames and sparks. Stable under recommended storage conditions.
Incompatibility - Materials To Avoid:	Strong oxidizing agents.
Hazardous Decomposition Or Byproducts:	Fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information:	Epidemiology: No information available. Teratogenicity: No information available. Reproductive Effects: No information available. Mutagenicity: No information available. Neurotoxicity: No information available.
Irritation or Corrosion:	No data available.
Sensitization:	No data available.
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information:	Product is non-toxic and will dissipate in air if ignition does not occur.
Results of PBT and vPvB assessment:	No data available.
Persistence and Degradability:	No data available.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Product is non-toxic and will dissipate in air if ignition does not occur. Do not attempt to dispose of residual or unused quantities. Return container to supplier. Dispose of contents/containers in accordance with local/regional/national/international regulations.
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14. TRANSPORT INFORMATION**LAND TRANSPORT (US DOT):**

DOT Proper Shipping Name:	Methane, compressed.
DOT Hazard Class:	2.1 FLAMMABLE GAS
UN/NA Number:	UN1971



15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
74-82-8	Methane	No	No	No
74-84-0	Ethane	No	No	No

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
74-82-8	Methane	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1202; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No
74-84-0	Ethane	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 0834; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
74-82-8	Methane	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes - 1971; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - (2)-1; Korea ECL: Yes - KE-23181; Philippines ICCS: Yes; REACH: Yes - (R), (P)
74-84-0	Ethane	Canadian DSL: Yes; Canadian NDSL: No; Mexico INSQ: Yes - 1035; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - (2)-2; Korea ECL: Yes - KE-13138; Philippines ICCS: Yes; REACH: Yes - (R), (P)

16. OTHER INFORMATION

Revision Date: 04/12/2015

Additional Information About This Product: No data available.

This Product:

Company Policy or

Disclaimer:

The information, recommendations, and suggestions herein were compiled from reference material and other sources believed to be reliable. However, the SDS's accuracy or completeness is not guaranteed by Gas Innovations or its affiliates, nor is any responsibility assumed or implied for any loss or damage resulting from inaccuracies or omissions. Since conditions of use are beyond our control, no warranties of merchantability of fitness for a particular purpose are expressed or implied. This SDS is not intended as a license to operate under, or a recommendation to infringe on, any patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.