Safety Data Sheet



Section 1: Identification

Product identifier

Product name • Natural Gas

Synonyms
 Fuel Gas; Pipeline Gas; Processed Gas; Residue Gas

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Fuel

Details of the supplier of the Safety Data Sheet

Florida City Gas

Mailing Address: 4045 NW 97th Avenue

Doral, FL 33178 United States

Telephone: 800.993.7546

Website: www.floridacitygas.com

Emergency telephone number 888.352.5325

Section 2: Hazard Identification

United States (U.S.)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

Flammable Gases 1

Compressed Gas

Simple Asphyxiant

Format: GHS Language – English (U.S.) OHS HCS 2012

Label elements **OSHA HCS 2012**

DANGER





Hazard statements •

- Extremely flammable gas.
- Contains gas under pressure; may explode if heated.
- May displace oxygen and cause rapid suffocation.

Precautionary Prevention statements

 Keep away from heat, sparks, open flames and/or hot surfaces. No smoking.

Response

• Blowing gas fire: Do not extinguish unless leak can be stopped safely. Eliminate all ignition sources if safe to do

Storage/Disposal

• Protect from sunlight. Store in a well-ventilated place.

Other hazards **OSHA HCS 2012**

Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

	Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	
Methane	CAS:74-82-8	94% TO 98%	NDA	OSHA HCS 2012: Flam. Gas 1; Press. Gas - Comp; Simp. Asphyx.	
Ethane	CAS:74-84-0	1% TO 3%	NDA	OSHA HCS 2012: Flam. Gas 1; Press. Gas, Simp. Asphyx.	
Nitrogen	CAS:7727-37-9	0% TO 1.6%	NDA	OSHA HCS 2012: Press. Gas - Comp.; Simp. Asphyx.	
Carbon dioxide	CAS:124-38-9	0.5% TO 0.8%	Inhalation-Rat LC50 • 470000 ppm 30 Minute(s)	OSHA HCS 2012: Press. Gas - Liq.; Simp. Asphyx.	
Propane	CAS:74-98-6	0.1% TO 0.2%	NDA	OSHA HCS 2012: Flam. Gas 1; Press. Gas - Liq.; Simp. Asphyx.	
Butane	CAS:106-97-8	0.08% TO 0.2%	Inhalation-Rat LC50 • 658 g/m³ 4 Hour(s)	OSHA HCS 2012: Flam. Gas 1; Press. Gas; STOT SE 3: Narc. (Inhl); Simp. Asphyx.	
Hexane	CAS:110-54-3	0% TO 0.06%	Ingestion/Oral-Rat LD50 • 25 g/kg. Inhalation-Rat LC50 • 627000 mg/m³ 3 Minute(s)	OSHA HCS 2012: Exposure limits	
Pentane	CAS:109-66-0	0% TO 0.03%	Inhalation-Rat LC50 • 364 g/m³ 4 Hour(s). Ingestion/Oral-Rat LD50 • >2000 mg/kg	OSHA HCS 2012: Exposure limits	

All percentages provided are approximate.

Key to abbreviations

NDA = No Data Available

STOT SE 3 = Specific Target Organ Toxicity, Single Exposure

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Section 4: First Aid Measures

Description of first aid measures

Inhalation • IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin • Material is a gas. Skin (dermal) absorption is not a likely route of exposure.

Eye • Flush eyes with water for at least 15 minutes while holding eyelids open. If eye irritation persists, get medical advice/attention.

Ingestion • Material is a gas. Ingestion is not a likely route of exposure.

Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician • All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Firefighting Measures

Extinguishing media

Suitable • SMALL FIRES: Dry chemical or CO2.

Media

Extinguishing • LARGE FIRES: Water spray or fog.

Extinguishing Media

Unsuitable • No data available.

Special hazards arising from the substance or mixture

Explosion Hazards

- Unusual Fire and EXTREMELY FLAMMABLE
 - Will form explosive mixtures with air.
 - Vapors may travel to source of ignition and flash back.
 - Containers exposed to fire may vent and release flammable gas through pressure relief devices.
 - Containers may explode when heated. Ruptured cylinders may rocket.

Hazardous Combustion **Products**

No data available.

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Advice for firefighters

- Gas fires should not be extinguished unless the flow of gas can be stopped. Only authorized personnel should turn off valves or attempt repairs.
- Firefighters should wear self-contained breathing apparatus (SCBA).
- Natural gas is lighter than air and will vent upward but special consideration should be given to areas that may trap or contain gas and areas of possible gas migration underground of through structures.
- Water mist may be used to cool surrounding structures including compressed gas cylinders or tanks.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions • Ventilate the area before entry. Wear appropriate personal protective equipment.

Emergency Procedures .

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate area for at least for at least 100 meters (330 feet) in all directions. Keep unauthorized personnel away. Keep out of low areas. Stay upwind.
- LARGE RELEASE: Consider initial downwind evacuation for at least 800 meters (1/2 mile).

Environmental precautions

Prevent entry into sewers, basements or confined areas.

Methods and material for containment and clean up

Containment/Cleanup

Measures

- Stop release if possible without risk.
- All equipment used when handling the product must be grounded.
- Use water spray to reduce vapors; do not put water directly on leak, spill area or inside container. Do not direct water at source of leak.
- Isolate area until gas has dispersed.

Section 7 - Handling and Storage

Precautions for safe handling

• Use only with adequate ventilation. Keep away from heat and ignition sources - No Smoking. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Use only nonsparking tools. Be aware of any signs of dizziness or fatigue, especially if work is done in a poorly ventilated area; exposures to fatal concentrations of this gas mixture could occur without any significant warning symptoms, due to olfactory fatigue or oxygen deficiency. Cylinders should be firmly secured to prevent falling or being knocked over. Use explosion proof electrical, ventilating and/or lighting equipment. Empty containers retain product residue and can be hazardous. Do not cut, weld, puncture or incinerate container. Wear appropriate personal protective equipment. Avoid direct contact with skin, eyes and clothing. Avoid breathing gas. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

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Conditions for safe storage, including any incompatibilities

Containers should be stored in dry, well-ventilated areas away from sources of heat, ignition and direct sunlight.
 Protect cylinders against physical damage. Cylinders should be firmly secured to prevent falling or being knocked over

Section 8 - Exposure Controls/Personal Protection

Control Parameters

	Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA	
Pentane (109-66-0)	TWAs	1000 ppm TWA listed under Pentane, all isomers)	120 ppm TWA; 350 mg/m3 TWA	1000 ppm TWA; 2950 mg/m3 TWA	
	Ceilings	Not established	610 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)	Not established	
Hexane (110-54-3)	TWAs	50 ppm TWA	50 ppm TWA; 180 mg/m3 TWA	500 ppm TWA; 1800 mg/m3 TWA	
Butane (106-97-8)	STELs	1000 ppm STEL	Not established	Not established	
	TWAs	Not established	800 ppm TWA; 1900 mg/m3 TWA	Not established	
Propane (74-98-6)	TWAs	1000 ppm TWA (listed under Aliphatic hydrocarbon gases; Alkane C 1-4)	1000 ppm TWA; 1800 mg/m3 TWA	1000 ppm TWA; 1800 mg/m3 TWA	
Carbon dioxide (124-38-9)	TWAs	5000 ppm TWA	5000 ppm TWA; 9000 mg/m3 TWA	5000 ppm TWA; 9000 mg/m3 TWA	
	STELs	30000 ppm STEL	30000 ppm STEL; 54000 mg/m3 STEL	Not established	
Ethane (74-84-0)	TWAs	1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)	Not established	Not established	
Methane (74-82-8)	TWAs	1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)	Not established	Not established	

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene NIOSH = National Institute of Occupational Safety and Health OSHA = Occupational Safety and Health Administration

STEL= Short Term Exposure Limits are based on 15-minute exposures TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Exposure controls

Engineering measures/controls

 Adequate general ventilation should be provided when handling. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. Use explosion proof electrical, ventilating and/or electrical equipment.

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Personal protective equipment

Respiratory • In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face • Wear safety glasses.

Skin/body • Material is a gas. Skin (dermal) absorption is not a likely route of exposure.

Environmental Exposure Controls

 Follow best practices for site management and disposal of waste. Controls should be engineered to prevent release to the environment.

Other information

Odorant may be comprised of some or all of the following components and/or blends thereof:
 Tetrahydrothiophene, tertiary-Butyl Mercaptan and other Mercaptans. Ensure personnel involved in gas purging operations are fully trained and knowledgeable about safe gas venting practices, the proper use of gas detectors and the danger of relying on the sense of smell alone to detect gas releases.

Section 9 - Physical and Chemical Properties

Information on Physical	and Chemical Pr	operties	
Material Description			
Physical Form	Gas	Appearance/Description	Colorless, odorless gas without odorants. When odorant is added – characteristic gas odor.
Color	Colorless	Odor	Odor provided by additive (Mercaptan)
Odor Threshold	Not relevant		
General Properties			
Boiling Point	-259 F(-161.6667 C)	Melting Point/Freezing Point	-297 F(-182.7778 C)
Decomposition Temperature	Not relevant	pН	No data available
Specific Gravity/Relative Density	0.58 to 0.62 Water=1	Water Solubility	Not relevant
Viscosity	Not relevant		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	0.5 to 0.62 Air=1
Evaporation Rate	Not relevant		
Flammability			
Flash Point	-306 F(-187.7778 C) OC (Open Cup)	UEL	15 %
LEL	4 %	Autoignition Temperature	1110 F(598.8889 C)
Flammability (solid, gas)	Not relevant		
Environmental			
Octanol/Water Partition coefficient	Not relevant		

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Section 10: Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under normal temperatures and pressures.

Possibility of hazardous reactions

· Hazardous polymerization will not occur.

Conditions to avoid

Keep away from heat, sparks and flame.

Incompatible materials

Strong oxidizers.

Hazardous decomposition products

Thermal oxidative degradation can produce carbon dioxide and carbon monoxide.

Section 11 - Toxicological Information

Information on toxicological effects

	Components			
Methane (94% TO 98%)	74-82-8	Acute Toxicity: Inhalation-Mouse LC50 • 326 g/m³ 2 Hour(s)		
Carbon dioxide (0.5% TO 0.8%)	124-38-9	Acute Toxicity: Inhalation-Rat LC50 • 470000 ppm 30 Minute(s); Inhalation-Human TCLo • 0.25 pph; Lungs, Thorax, or Respiration: Dyspnea; Vascular. Other changes; Reproductive: Inhalation-Mouse TCLo • 2 pph 8 Hour(s)(10D preg); Reproductive Effects: Effects on Fertility: Post-implantation mortality; Reproductive Effects: Specific Developmental Abnormalities: Musculoskeletal system		
Propane (0.1% TO 0.2%)	74-98-6	Acute Toxicity: Inhalation Rat LC50 • >800000 ppm 15 Minute(s); Behavioral: General anesthetic; Behavioral: Ataxia; Lungs, Thorax, or Respiration: Respiratory depression		
Butane (0.08% TO 0.2%)	106-97-8	Acute Toxicity: Inhalation-Rat LC50 • 658 g/m³ 4 Hour(s)		

Key to abbreviations LC – Lethal concentration

TC - Toxic concentration

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GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012•No data available
Serious eye damage/Irritation	OSHA HCS 2012•No data available
Acute toxicity	OSHA HCS 2012•No data available
Aspiration hazard	OSHA HCS 2012•No data available
Carcinogenicity	OSHA HCS 2012•No data available
Skin corrosion/Irritation	OSHA HCS 2012•No data available
Skin sensitization	OSHA HCS 2012•No data available
STOT-RE	OSHA HCS 2012•No data available
STOT-SE	OSHA HCS 2012•No data available
Toxicity for Reproduction	OSHA HCS 2012•No data available
Germ Cell Mutagenicity	OSHA HCS 2012•No data available

Potential Health Effects

Inhalation

Acute (Immediate) •

This material is a simple asphyxiant. May displace or reduce oxygen available for breathing especially in confined spaces. If this material is released in a small, poorly ventilated area (i.e., an enclosed or confined space), an oxygen-deficient environment may occur. Individuals breathing such an atmosphere may experience symptoms which include headaches, ringing in ears, dizziness, drowsiness, unconsciousness, nausea, vomiting, and depression of all the senses. Under some circumstances of over-exposure, death may occur. The following effects associated with decreased levels of oxygen: increase in breathing and pulse rate, emotional upset, abnormal fatigue, nausea, vomiting, collapse, loss of consciousness, convulsive movements, respiratory collapse and death.

Chronic (Delayed) • No data available.

Skin

Acute (Immediate) • Under normal handling conditions, no acute skin effects are expected.

Chronic (Delayed) • No data available.

Eye

Acute (Immediate) • May cause irritation.

Chronic (Delayed) • No data available.

Ingestion

Acute (Immediate) • Material is a gas; ingestion is not a likely route of exposure.

Chronic (Delayed) • No data available.

Section 12 - Ecological Information

Toxicity

Non-mandatory section - information about this substance not compiled for this reason.

Persistence and degradability

Non-mandatory section - information about this substance not compiled for this reason.

Other adverse effects

Non-mandatory section - information about this substance not compiled for this reason.

Bioaccumulative potential

Non-mandatory section - information about this substance not compiled for this reason.

Mobility in Soil

Non-mandatory section - information about this substance not compiled for this reason.

Other adverse effects

Non-mandatory section - information about this substance not compiled for this reason.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

 Dispose of content and/or container in accordance with local, regional, national and/or international regulations.

Packaging waste

• Dispose of content and/or container in accordance with local, regional, national and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN1971	Methane, compressed	2.1	None	NDA

Key to abbreviations

NDA = No Data Available

Special precautions for user

• None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

• Not relevant.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

• Acute, Fire, Pressure(Sudden Release of)

Inventory			
Component	CAS	TSCA	
Butane	106-97-8	Yes	
Carbon dioxide	124-38-9	Yes	
Ethane	74-84-0	Yes	
Hexane	110-54-3	Yes	
Methane	74-82-8	Yes	
Nitrogen	7727-37-9	Yes	
Pentane	109-66-0	Yes	
Propane	74-98-6	Yes	

United States

Labor

U.S. - OSHA-Process Safety Management-Highly Hazardous Chemicals

Pentane	109-66-0	Not Listed		
Ethane	74-84-0	Not Listed		
Carbon dioxide	124-38-9	Not Listed		
Propane	74-98-6	Not Listed		
Butane	106-97-8	Not Listed		
Hexane	110-54-3	Not Listed		
Nitrogen	7727-37-9	Not Listed		
Methane	74-82-8	Not Listed		
U.S OSHA - Specifically Regulated Chemicals				
Pentane	109-66-0	Not Listed		
Ethane	74-84-0	Not Listed		
Carbon dioxide	124-38-9	Not Listed		
Propane	74-98-6	Not Listed		
Butane	106-97-8	Not Listed		
Hexane	110-54-3	Not Listed		
Nitrogen	7727-37-9	Not Listed		
Methane	74-82-8	Not Listed		

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Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

Pentane	109-66-0	Not Listed
Ethane	74-84-0	Not Listed
Carbon dioxide	124-38-9	Not Listed
Propane	74-98-6	Not Listed
Butane	106-97-8	Not Listed
Hexane	110-54-3	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Pentane	109-66-0	Not Listed
Ethane	74-84-0	Not Listed
Carbon dioxide	124-38-9	Not Listed
Propane	74-98-6	Not Listed
Butane	106-97-8	Not Listed
Hexane	110-54-3	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

Pentane	109-66-0	Not Listed
Ethane	74-84-0	Not Listed
Carbon dioxide	124-38-9	Not Listed
Propane	74-98-6	Not Listed
Butane	106-97-8	Not Listed
Hexane	110-54-3	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

Pentane	109-66-0	Not Listed
Ethane	74-84-0	Not Listed
Carbon dioxide	124-38-9	Not Listed
Propane	74-98-6	Not Listed
Butane	106-97-8	Not Listed
Hexane	110-54-3	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

Pentane	109-66-0	Not Listed
Ethane	74-84-0	Not Listed
Carbon dioxide	124-38-9	Not Listed
Propane	74-98-6	Not Listed
Butane	106-97-8	Not Listed
Hexane	110-54-3	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

Pentane	109-66-0	Not Listed
Ethane	74-84-0	Not Listed
Carbon dioxide	124-38-9	Not Listed
Propane	74-98-6	Not Listed
Butane	106-97-8	Not Listed
Hexane	110-54-3	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

Pentane	109-66-0	Not Listed
Ethane	74-84-0	Not Listed
Carbon dioxide	124-38-9	Not Listed
Propane	74-98-6	Not Listed
Butane	106-97-8	Not Listed
Hexane	110-54-3	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

Pentane	109-66-0	Not Listed
Ethane	74-84-0	Not Listed
Carbon dioxide	124-38-9	Not Listed
Propane	74-98-6	Not Listed
Butane	106-97-8	Not Listed
Hexane	110-54-3	Not Listed
Nitrogen	7727-37-9	Not Listed
Methane	74-82-8	Not Listed

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U.S. – California – Proposition 65 – Developmental Toxicity				
Pentane	109-66-0	Not Listed		
Ethane	74-84-0	Not Listed		
Carbon dioxide	124-38-9	Not Listed		
Propane	74-98-6	Not Listed		
Butane	106-97-8	Not Listed		
Hexane	110-54-3	Not Listed		
Nitrogen	7727-37-9	Not Listed		
Methane	74-82-8	Not Listed		
U.S. – California – Proposition 65	- Maximum Allowable Dose Lev	rels (MADL)		
Pentane	109-66-0	Not Listed		
Ethane	74-84-0	Not Listed		
Carbon dioxide	124-38-9	Not Listed		
Propane	74-98-6	Not Listed		
Butane	106-97-8	Not Listed		
Hexane	110-54-3	Not Listed		
Nitrogen	7727-37-9	Not Listed		
Methane	74-82-8	Not Listed		
U.S California - Proposition 65	- Reproductive Toxicity Female			
Pentane	109-66-0	Not Listed		
Ethane	74-84-0	Not Listed		
Carbon dioxide	124-38-9	Not Listed		
Propane	74-98-6	Not Listed		
Butane	106-97-8	Not Listed		
Hexane	110-54-3	Not Listed		
Nitrogen	7727-37-9	Not Listed		
Methane	74-82-8	Not Listed		
U.S. – California – Proposition 65 – Reproductive Toxicity Male				
Pentane	109-66-0	Not Listed		
Ethane	74-84-0	Not Listed		
Carbon dioxide	124-38-9	Not Listed		
Propane	74-98-6	Not Listed		
Butane	106-97-8	Not Listed		
Hexane	110-54-3	Not Listed		
Nitrogen	7727-37-9	Not Listed		
Methane	74-82-8	Not Listed		

Section 16 - Other Information

Revision Date
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 Coctober 30, 2015
 October 30, 2015

Disclaimer/Statement of Liability

• The information contained in this SDS was obtained from the Environmental Protection Agency and other sources which are believed reliable and based upon current available scientific data and analyses. New information may be developed from time to time which may render the conclusions of this report obsolete. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. Although reasonable care has been taken in the preparation of this document, we extend no warranties, expressed or implied, and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual user should make a determination as to the suitability of the information or product for his/her particular purpose(s). The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. Therefore, we do not assume responsibility and expressly disclaim any liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of the product.