



# Material Safety Data Sheet

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## NATURAL GAS

### SECTION 1 - IDENTIFICATION

Product Name: Natural Gas  
Chemical Family: Aliphatic Hydrocarbon Mixture  
CAS #: 8006-14-2  
DOT Number: UN 1971 (gas) or 1972 (liquid)  
Chemical Synonyms: Compressed Gas (Flammable), Residue Gas, Sales Gas

### SECTION 2 - HAZARDOUS INGREDIENTS

<u>Component</u>	<u>Lower Range. %</u>	<u>Upper Range. %</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA Ceiling</u>
Methane	80	99	N/A	Asphyxiant	N/A
Ethane	2	15	N/A	Asphyxiant	N/A
Propane	0	10	1000 ppm	Asphyxiant	N/A
N-Butane	0	5	800 ppm	800 ppm	N/A
Hydrogen Sulfide	0	4 ppm	10 ppm	10 ppm	20 ppm
Carbon Dioxide	0	3	10,000 ppm	5,000 ppm	N/A
Nitrogen	0	5	N/A	Asphyxiant	N/A

### SECTION 3 - PHYSICAL DATA

Boiling Point	-259° F	pH	NA
Melting Point	NA	% Volatiles	100
Specific Gravity (H2O= 1)	0.555	Evaporation rate (Ethyl Ether = 1)	Gas
Vapor Pressure	Gas	Appearance	Colorless
Vapor Density (Air = 1)	0.6		Gas
Solubility in Water	Negligible	Odor (Without stenching agent)	Odorless

### SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Flash Point	Flammable Gas	<u>NFPA Class</u>	<u>Hazard Rating</u>
Autoignition Temp	900-1170° F.	Health 1	0 - Least 3 - High
Lower Explosive Limits (LEL)	3.8 - 6.5%	Fire 4	1 - Slight 4 - Extreme
Upper Explosive Limits (UEL)	13.0 - 17.0%	Reactivity 0	2 - Moderate
Specific Hazard	None	Other 0	

Fire and Explosion Hazards  
Extinguishing Media

Flammable gas, flash points less than 100° F.  
Dry chemical powder, CO<sub>2</sub>

#### Fire Fighting Instructions

Shut off source. Allow to burn if there is no risk to surroundings; otherwise put out. Cool exposed tank with water spray. Wear self-contained breathing apparatus in confined spaces. Refer to DOT Emergency Response Guidebook for first response information.

### SECTION 5 - HEALTH HAZARD INFORMATION

Health Hazard Information

Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

Routes of Exposure and Effects

Inhalation Excessive exposure may cause central nervous system effects, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure and death.

DANGER! Hydrogen sulfide vapors may accumulate in confined spaces or areas of limited circulation. Concentration may be immediately dangerous to life and health (IDLH) on a single exposure.

Skin Vaporizing liquefied gas may cause frostbite.

Eye Vaporizing liquefied gas may cause frostbite.

Ingestion Cannot be reasonably ingested.

First Aid

Inhalation Move person to fresh air. If not breathing, give artificial respiration, and obtain medical assistance.

Skin Slowly rewarm frostbitten area. If irritation persists, seek medical attention.

Eye Flush with copious amount of tepid water for at least 15 minutes. If irritation or other eye symptoms persist, obtain medical assistance.

Ingestion None normally required. Small amounts that accidentally enter mouth should be rinsed out until the taste is gone.

**SECTION 6 - REACTIVITY**

Stability:	Stable
Hazardous Polymerization:	No
Incompatible Materials:	Strong Oxidizers
Hazardous Decomposition Products:	Carbon Monoxide and asphyxiants

**SECTION 7 - SPILL OR LEAK PROCEDURES**

Clean Up Procedures

Prevent ignition, stop leaks and ventilate area. Use water spray to disperse vapors. Keep upwind of leak. Evacuate area until gas has dispersed. Enter area only with protective equipment. (See Section 8)

Waste Disposal Method

Use water spray and/or vent to atmosphere to disperse vapors. Waste product or contaminated material will be considered hazardous if the flash point is less than 140° F. requiring disposal at an approved hazardous waste facility.

**SECTION 8 - SPECIAL PROTECTION INFORMATION**

Ventilation

Use only with adequate ventilation. Ventilate as needed to comply with acceptable exposure limits. (See Section 2)

Protective Equipment

Eye Splash proof chemical goggles and full face shield recommended to protect against contact with product.

- Gloves Impervious insulated gloves recommended to protect against contact with product.
- Respirator Concentrations in air determines protection needed. Use only NIOSH certified respiratory protection.
- Other If contact is anticipated, wear impervious insulated protective gear.

### **SECTION 9 - SPECIAL PRECAUTIONS**

#### Storage and Handling Conditions

Keep away from heat, sparks, arcs and flames. Keep container tightly closed and in well ventilated area. Consult NFPA and OSHA standards. Closed system required for handling. Gas is lighter than air and may accumulate in unventilated roof areas.

DANGER! This product may contain hydrogen sulfide, a poisonous gas. Observe all protective measures to avoid excessive exposure.

### **SECTION 10 - PRECAUTIONARY LABEL**

This material is extremely flammable. Gas is lighter than air. Vapors may travel a considerable distance to source of ignition. Flames may flash back to source. Consult appropriate codes of the NFPA before handling. State and local fire codes may apply in the handling and storage of this material. Refer to the U.S. Department of Transportation regulations for transportation and placarding requirements. Do not weld, cut or burn any container holding this material; *it may explode*. This material may cause frostbite.

DANGER! This product may contain hydrogen sulfide, a poisonous gas. Observe all protective measures to avoid excessive exposure.

#### Disclaimer of Liability

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