



**MSDS  
MATERIAL SAFETY DATA SHEET**

**NATURAL GAS  
(SOUR)  
MSDS # 103**

Effective May 11, 2010

**Manufacturer/Supplier:**

Hunt Oil Company  
1900 North Akard Street  
Dallas, Texas 75201-2300  
214-978-8000

**Emergency Health Information:**

**CHEMTREC**  
(for transport emergencies):

(713) 420-2600

800-424-9300 (USA)

202-483-7616

(Outside the USA)

**Important Components:**

Component	CAS #	Range % by Wt.
Natural Gas (predominantly methane & ethane)	6841-63-9	100
Methane	74-82-8	70 – 100
Hydrogen sulfide	7783-06-4	Varies

**Warning Statement:**

Danger! Extremely flammable. Vapor may contain hydrogen sulfide (H<sub>2</sub>S) gas. Vapor harmful or fatal. Can cause skin irritation on prolonged or repeated contact. Harmful or fatal if liquid is aspirated into lungs. Benzene: cancer hazard.

**HMIS/NFPA Codes: (Health;2) (Flammability;4) (Reactivity;0), Chronic Hazard**

**Appearance and odor:**

Colorless gas; rotten egg odor.

**HEALTH HAZARD INFORMATION**

**EYE**

Effect: Causes eye irritation.  
First Aid: Flush eyes with plenty of water. Obtain immediate medical attention.  
Protection: Wear chemical goggles.

**SKIN**

Effect: No significant health hazards identified.  
First Aid: Wash exposed skin with soap and water.  
Protection: None required; however, use of protective clothing and gloves is good industrial practice.

**INHALATION**

Effect: Harmful or fatal if inhaled. Prolonged breathing (greater than one hour) of concentrations of H<sub>2</sub>S around 20 ppm can produce eye and respiratory tract irritation; levels of 250 to 600 ppm will result in fluid in the lungs, and concentrations around 1,000 ppm will cause unconsciousness and death in a short period of time. High vapor concentrations can cause headaches, dizziness, drowsiness and nausea. Asphyxiant in high concentrations. See Toxicology section.

First Aid: If worker is overcome, rescuer must wear supplied air breathing apparatus to remove worker to uncontaminated area. Give artificial respiration if not breathing. Give oxygen if breathing is difficult. Get immediate medical attention.

Protection: Use with adequate supplied or self contained breathing air. If ventilation is inadequate, use supplied air respirator.

**INGESTION**

Effect: No significant health hazards identified.  
First Aid: Not applicable.

## FIRE AND EXPLOSION INFORMATION

Flashpoint:	-188°C, (-306°F) Flammable gas.
Auto-ignition Temperature:	538°C (1000°F), Approx.
Extinguishing Media:	Stop flow of gas, if possible, if not, allow to burn. Agents approved for Class B hazards (e.g., dry chemical, carbon dioxide, foam, steam) or water fog.
Unusual Fire and Explosion Hazards:	Extremely flammable vapor/air mixtures form. Extinguishment of fire before source of vapor is shut off can create an explosive mixture in air.
Precautions:	Keep away from ignition sources (e.g., heat, sparks and open flames). Do not cut, puncture, or weld on or near this container.
Flammability Classification:	Compressed gas, extremely flammable.
Fire-fighting Equipment:	Firefighters should wear full bunker gear, including a positive pressure SCBA (self-contained breathing apparatus).

## REACTIVITY INFORMATION

Dangerous Reactions:	Avoid chlorine, fluorine and other strong oxidizers.
Stability:	Burning can be started easily.

## CHEMICAL AND PHYSICAL PROPERTIES

Solubility in Water:	Negligible, below 0.1%
Specific Gravity (Water = 1):	Not determined.
pH:	Not determined
Vapor Pressure:	300 – 600 psig (in pipeline)
Vapor Density:	0.55 – 0.6
Melting Point:	Not determined
Boiling Point:	-76°F (-60°C)

## STORAGE AND ENVIRONMENTAL PROTECTION

Storage Requirements:	Outside storage is recommended. Store in cool, dry, well ventilated area. Store away from heat, ignition sources, and open flame in accordance with applicable regulations.
Spills and Leaks:	Remove or shut off all sources of ignition. Use appropriate protective equipment. Increase ventilation, if possible. Use water spray to disperse vapors.
Disposal:	Disposal must be in accordance with applicable federal, state or local regulations.

## TOXICOLOGICAL INFORMATION

Aspiration of this product into the lungs can cause chemical pneumonia and can be fatal. Aspiration can occur while vomiting after ingestion of this product.

Hydrogen sulfide (H<sub>2</sub>S) gas may accumulate in storage tanks and bulk transport compartments containing petroleum crudes or condensates. Prolonged breathing (greater than one hour) of concentrations of H<sub>2</sub>S around 20 ppm can produce eye and respiratory tract irritation; levels of 250 to 600 ppm will result in fluid in the lungs, and concentrations around 1,000 ppm will cause unconsciousness and death in a short period of time. The sense of smell rapidly becomes insensitive to this toxic, colorless gas and the odor of condensate may mask the odor of H<sub>2</sub>S. Therefore, odor cannot be relied upon as an indicator of concentration of the gas. Always exercise caution when working around containers of condensate.

This material is an asphyxiant. Asphyxiants may reduce the oxygen concentrations in the air to dangerous levels. Symptoms of lack of oxygen include increased depth and frequency of breathing, air hunger, dizziness, headache, nausea and loss of consciousness.

No component of this product present at levels greater than 0.1% is identified as a carcinogen by the ACGIH or IARC.

## ECOLOGICAL INFORMATION

Ecological testing has not been conducted on this product.

## TRANSPORTATION INFORMATION

Proper Shipping Name:	Methane, Compressed
Subsidiary Class:	2.1
UN Number:	UN1971
DOT Shipping Label	FLAMMABLE GAS (red)

## REGULATORY INFORMATION

U.S. Federal, State, and Local Regulatory Information	Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other regulations at the state and/or local level. Consult those regulations applicable to your facility/operation.
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Clean Water Act (oil spills)	Any spill or release of this product to "navigable waters" (essentially any surface water, including certain wetlands) or adjoining shorelines sufficient to cause a visible sheen or deposit of a sludge or emulsion must be reported immediately to the National Response Center (1-800-424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies as required.
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CERCLA Section 103 and SARA section 304 (release to the environment)	The CERCLA definition of hazardous substances contains a "petroleum exclusion" clause which exempts crude oil, refined, and unrefined petroleum products and any indigenous components of such. However, other federal reporting requirements (e.g., SARA Section 304 as well as the Clean Water Act if the spill occurs on navigable waters) may still apply.
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## NOTICE

This material safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our Company. We believe that information to be correct but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either express or implied.