



Material Safety Data Sheet

Section 1: Identification

Manufacturer: Devon Energy 20 North Broadway Oklahoma City, OK 73126		Emergency Phone Number: 1.800.424-9300 CHEMTREC	
		Telephone Number for Information 405.235.3611	
Product Identification: Methane	Trade Name or Synonyms: Methyl Hydride. Marsh Gas, Fire Damp	Date of Issue: 9/25/01	Rev. Date 7/07/04

Section 2: Hazardous Ingredients

Hazardous Component	Percent	OSHA PEL/ACGIH TLV
*Methane	97+	Not Established
*Ethane		Not Established
Carbon Dioxide	0 – 50	5000 ppm ACGIH, 8 hr TWA
*Nitrogen		Not Established
NDA – No Data Available		NE – None Established

*These gases are simple asphyxiants, gases which act by diluting the available oxygen.

Section 3: Physical Data

Boiling Point (F^o)	-285 ^o F	Specific Gravity (water =1)	N/A
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (air=1)	0.6	Evaporation Rate	N/A
Solubility in Water	Slight		
Appearance / Odor	This material is a colorless and odorless.		

Section 4: Fire and Explosion Data

Flash Point	N/A (Gas)	Flammable Limits	LEL 5.3% UEL 15%
Extinguishing Media: Stop flow of gas. Extinguish surrounding fire only if gas flow can be stopped.			
Special Fire Fighting Procedures: The use of a self-contained breathing apparatus (SCBA) is recommended for fire fighters. Water spray may be useful in ventilating the exposed area and cooling storage vessels exposed to heat and flame.			
Unusual Fire and Explosion Hazards: This material may be ignited by heat, sparks, and flames. Storage pressure vessels may overpressure and finally rupture with destructive force.			

Section 5: Health Hazard Data

Effects of Overexposure: Methane gas is non-toxic; may act as a simple asphyxiant by displacing required air.
Signs and Symptoms of Exposure Acute: Gas acts as a simple asphyxiant by displacing oxygen.
Medical Conditions Generally Aggravated by Exposure None



Material Safety Data Sheet

Skin Contact	This gas is not a skin irritant.
Eyes	A component of this gas is an eye irritant. Exposure can cause burning, redness and conjunctivitis
Inhalation	This material can be an asphyxiant. Continued high exposure of this gas mixture may exclude an adequate supply of oxygen. Oxygen levels should be maintained at greater than 19.5% at normal atmospheric pressure.
Ingestion	This material is a gas under normal atmospheric conditions and ingestion, therefore, is unlikely.
Emergency and First Aid Procedures: Eye contact: For contact with liquefied butane, keep the affected eye(s) clean and seek medical attention. Skin contact: Treat burned or frostbitten skin by flushing or immersing affected area(s) in lukewarm water. After sensation has returned to the frostbitten skin, keep skin warm, dry and clean. If blistering occurs, apply sterile dressings. Seek immediate medical attention Inhalation: Move away from exposure and into fresh air. If victim is not breathing or if breathing difficulties develop, artificial respiration or oxygen should be administered by qualified personnel. Seek immediate medical attention. Ingestion: This material is a gas under normal atmospheric conditions.	

Section 6: Reactivity Data

Stability	Stable
Incompatibility	Oxidizers
Conditions to Avoid	N/A
Hazardous Decomposition Products	Sulfur Oxides.
Hazardous Polymerization	Will not occur.
Polymerization Conditions to Avoid	N/A

Section 7: Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Isolate hazard area and restrict entry. Stay upwind and away from release. Extremely flammable: keep all sources of ignition away from leak. Contact fire authorities and appropriate state/local agencies.
Waste Disposal Method (Insure conformity with local disposal regulation): Allow to disperse in air.

Section 8: Personal Protection Information

Respiratory Protection	Depending methane gas concentration, respiratory protection will be required. Whenever oxygen content is below 19.5%, supplied air equipment must be used.
Ventilation	If current ventilation practices are not adequate in maintaining airborne concentrations below the established exposure limits (see Section 2), additional ventilation or exhaust systems may be required. Where explosive materials may be present, electrical systems safe for such location must be used.
Protective Gloves	None normally required.
Eye Protection	Safety goggles or glasses.
Other Protective Clothing or Equipment	It is suggested that a source of clean water be available in the work area for flushing eyes and skin



Material Safety Data Sheet

Section 9: Special Precautions

Precautions to be taken in handling and storing:

Store in approved pressure vessels in a well-ventilated area away from heat, flame, sparks or other sources of ignition.

Avoid inhalation of vapors and personal contact with this material.