



BE SAFE BE ALERT

MATERIAL SAFETY DATA SHEET: NATURAL GAS (METHANE)

1. CHEMICAL IDENTITY

Chemical Name : METHANE (NATURAL GAS)
Chemical Classification : Aromatic Mixture
Formula : CH₄
C.A.S.NO. : 74-82-8
UN. NO. : 1971
Shipping Name : Methane Gas
Codes/Label : Flammable gas, Class 2
Hazardous waste I.D. : 5
No
Hazchem Code : 2(S)E Fog [BA Set] Evacuation
Hazardous Ingredients : Methane Gas

2. PHYSICAL AND CHEMICAL DATA

Boiling Point/Range : -(161.5° C)
Freezing Point : -(182.6° C)
Vapour Density (Air = 1) : 0.6
Specific Gravity:(Water = 1) : 0.68
Physical State : Gas
Solubility in water at 30° C : Soluble
Appearance : Colourless
Odour : Odourless
Others : Soluble in Alcohol, Ether

3. FIRE & EXPLOSION HAZARD DATA

Flammability : YES
LEL : 5%
UEL : 15%
Auto ignition Temp : 540°C
Explosion Sensitivity to impact : Stable
Hazardous Polymerization : Will not occur
Flammable Material : Yes
Pyrophoric Material : No
Explosive Material : No
Oxidiser : No
Organic Peroxide : No
Corrosive : No

4. REACTIVITY DATA

Chemical Stability : Stable
Reactivity : React violently with powerful oxidizers
Hazardous Reaction : Forms flammable Product : mixtures with air.

5. HEALTH HAZARD DATA

Routes of Entry : Inhalation, Skin & Eyes.
(Effects of Inhalation: At higher Exposure concentration it may cause Symptoms) asphyxiation. No system effects at 5 % concentration in air. Contact with skin may cause frost bite.
Emergency Treatment : Inhalation: Remove the victim to fresh air area, support respiration.
Skin: Wash the affected area with plenty of water. Eye: Flush with plenty of water for 15 minutes. Seek medical help immediately.
Permissible Exposure Limit : Not Listed
Odor Threshold : 200ppm/m³
NFPA Hazard Signals

Reactivity	Special	Health	Flammability
0	-	1	4

6. PREVENTIVE MEASURES

Personal Protective Equipment : Provide self-contained breathing apparatus for higher concentrations, protective over clothing, hand gloves, goggles and shoes. Proximity suit in case of fire.
Handling and Storage Precautions : Keep in a cool, dry, well ventilated place, away from oxidizing agents, heat & flame.



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7. EMERGENCY AND FIRST AID MEASURES

FIRE	
Fire Extinguishing Media	CO ₂ & Dry Chemical Powder.
Special Procedure	Keep the container cool by spraying water if exposed to heat or flame.
Unusual Hazards	Flashback along vapour trail may occur.
First Aid Measures	If inhaled, remove the victim to fresh air area. If

eyes and skin affected wash with plenty of water. Seek medical aid immediately

Antidotes/
Dosages

NOT AVAILABLE

8. ADDITIONAL INFORMATION

A simple Asphyxiant, very dangerous, fire and explosion hazard when exposed to heat and flame. Reacts violently with liquid oxygen

Disclaimer-

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