

# Be Safe Be Alert

## **MATERIAL SAFETY DATA SHEET: NATURAL GAS (METHANE)**

### 1. CHEMICAL IDENTITY

Chemical Name	:	METHANE (NATURAL GAS)
Chemical Classification	:	Aromatic Mixture
Formula	:	C H <sub>4</sub>
C.A.S.NO.	:	74-82-8
UN. NO.	:	1971
Shipping Name	:	Methane Gas
Codes/Label	:	Flammable gas, Class 2
Hazardous waste I.D. No	:	5
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	:	Colorless
Odor	:	Odorless
Others	:	Soluble in Alcohol, Ether

### 3. FIRE & EXPLOSION HAZARD DATA

Flammability	:	YES
LEL	:	5 %
UEL	:	15.0 %
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 oxidisers
Hazardous Reaction Product:	:	Forms flammable mixtures with air.

### 5. HEALTH HAZARD DATA

Routes of Entry	Inhalation, Skin & Eyes.
(Effects of Exposure	Inhalation: At higher concentration it may cause asphyxiation. No system effects at 5 % concentration in air. Contact with skin may cause frost bite.
Symptoms)	
Emergency Treatment	<u>Inhalation</u> : Remove the victim to fresh air area, support respiration <u>Skin</u> : Wash the affected area with plenty of water. <u>Eye</u> : Flush with plenty of water for 15 minutes. Seek medical help immediately.

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Permissible Exposure Limit Not Listed  
Odor Threshold 200 ppm/m<sup>3</sup>

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 oxidising agents, heat & flame.

### 7. EMERGENCY AND FIRST AID MEASURES

#### FIRE

Fire Extinguishing Media CO<sub>2</sub> & 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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