INDRAPRASTHA GAS

SAFETY DATA SHEET NATURAL GAS (As per ERDMP Regulations)

Section 1: Identification

Chemical Name	Natural Gas		
Synonyms	Methane / Marsh Gas	**Trade Name**	Natural Gas
Formula	CH4 & traces of higher HC, N2, CO2	**Product Identifier**	CAS No:74-82-8 UN. No: 1971

Use of Substance or Mixture: Used in process unit area.

Distributor's Name, Address & Emergency Telephone Number:
Indraprastha Gas Limited (IGL), IGL Bhawan, Plot No.04, Community Centre, RK Puram, Sec-09, New Delhi, 110022, Emergency Phone Number 155216, 1800111817

Section 2: Hazard Identification

Label Elements

Signal Word	DANGER	**Hazard Statement**	Highly Inflammable, Simple Asphyxiants-Category I, Gases under pressure / Compressed gas

Section 3: Composition / Information of Ingredients

Hazardous Component (Specific Chemical Identity, Common Names)	**Product Identifier**	**%** (optional)
Methane-97.98%, Ethane-1.86%, other HC-0.04%, Nitrogen-0.12%		

Section 4: First Aid Measures

Description of First Aid Measures	After Inhalation: Remove victim to fresh air. Support artificial respiration, administer oxygen/CPR. If required seek medical aid immediately. After Skin Contact: Wash the affected area with plenty of water. After eye contact: Flush with plenty of water at least for 15 minutes. Seek medical aid immediately.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media:	Dry chemical powder, Carbon dioxide for indoor application, and water spray

Special Hazards arising from Substance or Mixture : Oxides of Carbon, Nitrogen & Sulphur

Fire Hazard	Gas is flammable. Gas may ignite with contact with ignition sources/ spark /static charge.	**Explosion Hazard**	Air vapour mixture explosive. Explosion/re-ignition may occur if flame is extinguished without isolation of source of leakage.

Reactivity	NA	**Fire Fighting Instructions**	Spray water to keep the container cool. It is preferred to stop the flow of gas. Enter with support of air/oxygen if leakage in confined space Use gas detectors.

Section 6: Accidental Release Measures

Personal Precautions, Personal Protective Equipment and Emergency Procedures:

• Massive leakage of the gas can cause serious fire or explosion. • Do not enter in the gas area without protective wears. • Get the area evacuated.	• Stop flow of gas if without risk. Use non-sparking tools. Avoid possible sparks • Area should be well ventilated. • Spray water to keep the container cool

Environmental Precautions (Method of containment and Clean up):

NA

Section 7: Handling and Storage

Precautions for Safe Handling:

Use safe equipment and proper protective wears before entering leaked area.	Conditions for Safe Storage including incompatibilities	Keep container tightly cool in a dry and well -ventilated place. Keep naked flames, sparks and sources of ignition away.

Section 8: Exposure Controls/Personal Protections

Control Parameters

ACGIH TLV-TWA (ppm)		**OSHA PEL TWA (mg/m3)**	OSHA PEL TWA (ppm)
Engineering Controls : NA		**Eye Protection:**	Safety Glasses
Hand Protection	Handle with gloves	**Skin and Body Protection**	Flame retardant clothing in potentially flammable areas, proximity suit.
Respiratory Protection:		Respiratory protective equipment required.	

Section 9: Physical/Chemical Characteristics			
Property	**Value**	**Property**	**Value**
Physical State	Gas	**Colour**	colorless
Boiling Point	-161.5°C	**Freezing Point**	-182.60 C
Vapor Pressure	NA	**Melting Point**	-182.6°C
Vapor Density (Air=1)	0.56 - 0.59	**Evaporation Rate**	NA
Solubility in Water	Slightly soluble	**Appearance and Odor**	Odorless
Auto Ignition Temperature	540 °C	**Specific Gravity (H2O=1)**	0.660 to 0.719
Flash Point	(-) 222.5 °C	**Flammability Range**	5% to 15%
Oxidizing Properties	NA	**PH**	NA
Explosion Data: Sensitivity to Impact	Stable	**Explosion Data: Sensitivity to Static Discharge**	NA
Hazardous Combustion Products	CO2 plus traces of Oxides		

Section 10: Stability and Reactivity			
Reactivity	NA	**Possibility of Hazardous Reaction**	Heat will increase the pressure of gas in cylinders/container and and may cause an explosion
Chemical Stability	Stable	**Incompatible Materials**	Oxidizers
Hazardous Decomposition Products	Carbon dioxide and water with trace amounts of carbon monoxide, nitrogen oxides, sulfur oxides, hydrocarbons and soot.}		

Section 11: Toxicological Information	
Information on Toxicological Effects	Inhalation: Simple asphyxiant

Section 12: Ecological Information	
Information on Ecological Effects	NA. The product is easily biodegradable. Natural gas is expected to readily evaporate and not cause adverse effects on the aquatic environment.

Section 13: Disposal Considerations	
Waste Disposal Methods	Shut off leaks if without risk. Allow gas to burn under control.
Waste Treatment Methods	Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14: Transport Information	
Hazard Classes	2.1
NFPA Hazard Lable	
Special Transport Precautions	Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product, containers ensure that they are firmly secured. Ensure that the cylinder valve is closed and not leaking. Ensure that the valve outlet cap nut or plug (where provided) is correctly fitted. Ensure that the valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

Section 15: Regulatory Information	
National Regulations	PNGRB, PESO etc.
International Regulations	NA

Section 16: Other Information

Simple asphyxiant, fire and explosion hazard when exposed to heat and flame. Reacts violently with oxidizers.
Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer/ seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured/ handled or sold by him as the case may be.