

# Safety Data Sheet

## Methane, compressed

**United States Cylinder Gas** 

11618 S Mayfield Ave, Alsip, Illinois, 60803 Emergency Phone: CHEMTREC 1-800-424-9300

www.uscylgas.com

## Section 1: Product and Company Identification

**United States Cylinder Gas** 

11618 S Mayfield Ave, Alsip, Illinois, 60803 Phone (708) 389-1402 Emergency Phone: CHEMTREC 1-800-424-9300

www.uscylgas.com

Product Code: Methane Part Number: METH CP Synonyms:

Recommended Use: Industrial use. Use as directed.

**Usage Restrictions:** 

### **Section 2: Hazards Identification**



Hazard Classification: Flammable (Category 1), H220

> Gases Under Pressure, H280 Simple Asphyxiant, OSHA-H01 H220: Extremely flammable gas

Hazard Statements:

H280: Contains gas under pressure; may explode if heated CGA-HG04: MAY FORM EXPLOSIVE MIXTURES WITH AIR.

OSHA-H01: MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

**Precautionary Statements** 

P202: Do not handle until all safety precautions have been read and understood. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P271+P403: Use and store only outdoors or in a well-ventilated place.

P377: Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381: In case of leakage, eliminate all ignition sources.

CGA-PG02: Protect from sunlight when ambient temperature exceeds 52C (125F).

CGA-PG05: Use a back flow preventive device in the piping. CGA-PG06: Close valve after each use and when empty.

CGA-PG10+CGA-PG20: Use only with equipment of compatible materials of

construction and rated for cylinder pressure.

CGA-PG12: Do not open valve until connected to equipment prepared for use.

CGA-PG27: Read and follow the Safety Data Sheet (SDS) before use.

United States Cylinder Gas Part Number: 74-82-8

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## **Section 3: Composition/Information on Ingredients**

	CAS#	Concentration	
Methane	74-82-8	100%	

	Trade Names
Methane	02329_FLUKA
	0CB689EE-132E-4559-A597-C79A40192203
	14493-06-2
	150036-83-2
	295477_ALDRICH
	3B4-2254

### **Section 4: First Aid Measures**

IF ON SKIN: wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

### **Section 5: Fire Fighting Measures**

### Suitable Extinguishing Media:

Dry powder, carbon dioxide, cool surrounding area with fine water mist.

#### Protection of Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

	Products of Combustion
Methane	Oxides of carbon

### **Section 6: Accidental Release Measures**

### **Personal Precautions:**

Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.

### **Environmental Precautions:**

Keep away from drains, surface and ground water. Avoid heat, flames, sparks and other sources of ignition.

### **Methods for Containment and Cleanup:**

Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition. If necessary, cover drains. Absorb large spills, dispose in appropriate containers.

## **Section 7: Handling and Storage**

### Handling:

See precautions in Section 2. Only trained personnel should handle this product. Always use approved personal protective equipment.

### Storage:

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store and handle in accordance with all current regulations and standards. Store in a well-ventilated area. Keep separated from incompatible substances.

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	Incompatibilities	Conditions to avoid
Methane		Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.

### **Section 8: Exposure Controls/Personal Protection**

Exposure Guidelines	Threshold Limit Value -TLV (ppm)
Methane	Not Available

### **Engineering Controls**

No specific controls are needed.

**Eye Protection** Wear splash resistant safety goggles.

Skin Protection Wear chemical protective clothing, including gloves.

**Respiratory Protection** Use self-contained breathing apparatus.

### **General Hygiene considerations**

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

## **Section 9: Physical and Chemical Properties**

	Physical State / Physical Form	Appearance / Color	Odor	Flash Point	Flammability	Partition Coefficient
Methane	Gas	Colorless	Odorless	-369 F (-223 C)	True	1
	Autoignition Temperature	Upper Explosive Limits	Lower Explosive Limits	Boiling Point	Freezing Point	Vapor Pressure
Methane	999 F (537 C)	15	4.4	-260 F (-162 C)	-297 F (-183 C)	Not Available
	Vapor Density	Specific Gravity	Water Solubility	рН	Evaporation Rate	Viscosity
Methane	0.555	Not applicable	3.5% @ 17 C	0	Not applicable	0.01118 cP @ 27 C

	Molecular Weight	Molecular Formula	Density	Volatility	Solvent Solubility
Methane	16.043	CH4	Not Available	Not applicable	Soluble : Alcohol, ether, benzene, organic solvents

## **Section 10: Stability and Reactivity**

	Stability	Conditions to Avoid	Incompatible Materials
Methane	Stable at normal temperatures and pressure.	Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.	Halogens, oxidizing materials, combustible materials

Hazardous Decomposition Products		Possibility of Hazardous Reactions	
Methane	Oxides of carbon	Will not polymerize.	

## **Section 11: Toxicology Information**

The toxicology information is calculated for the mixture.

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Acute Toxicity Estimates (ATE) of the mixture.

Oral ATE (mg/kg)	Not Available
Inhalation ATE (ppm)	Not Available
Dermal ATE (mg/kg)	Not Available

### Additional health hazards:

OSHA-H01: MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

Skin Corrosion/Irritation	Not Available
Eye Damage/Irritation	Not Available
Respiratory or Skin Sensitization	Not Available
Germ Cell Mutagenicity	Not Available
Carcinogenicity	Not Available
Reproductive Toxicity	Not Available
STOT – single exposure	Not Available
STOT – repeated exposure	Not Available
Aspiration Hazard	Not Available

## **Section 12: Ecological Information**

**Fate and Transport** 

	Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment	
Methane	Fish toxicity: 0 Invertebrate toxicity: Algal toxicity: Phyto toxicity: Other toxicity:	Relatively non-persistent in the environment. Moderately volatile from water.	Accumulates very little in the bodies of living organisms.	Not expected to leach through the soil or the sediment.	

## **Section 13: Disposal Considerations**

Dispose in accordance with all applicable regulations. Do not dispose in sewers or waterways. Recycle if possible to do so. Return to manufacturer for disposal if needed.

## **Section 14: Transportation Information**

U.S. DOT 49 CFR 172.101

	Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Methane	Methane, compressed	UN1971	2.1	Not available	Not available	Not available	Not available

**Canadian Transportation of Dangerous Goods** 

		Shipping Name	UN Number	Class	Packing Group / Risk Group
ľ	Methane	Methane, compressed	UN1971	2.1	Not Available

## **Section 15: Regulatory Information**

### **U.S. Regulations**

	CERCLA Sections	SARA 355.30	SARA 355.40
Methane	Not Regulated.	Not Regulated.	Not Regulated.

### **SARA 370.21**

	Acute	Chronic	Fire	Reactive	Sudden Release
Methane	Yes	No	Yes	No	Yes

### **SARA 372.65**

Methane	Not Regulated.

### **OSHA Process Safety**

Methane	Not regulated.

### **State Regulations**

	CA Proposition 65
Methane	Not regulated.

### **Canadian Regulations**

	WHMIS Classification		
Methane	A, B1		

### **National Inventory Status**

	US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Methane	Methane	Not listed.	Listed on DSL.

## **Section 16: Other Information**

	NFPA Rating
Methane	Health = 2, Flammability = 4, Instability = 0

<sup>0 =</sup> minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard