

# Safety Data Sheet

## Methane Rich Gas

Version 1.00

Revision Date 30.05.2022

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### Product identifier

#### Trade name

Methane Rich Gas

#### Synonyms

Synthesized Natural Gas

#### Relevant identified uses of the substance or mixture and uses advised against

#### Use

Industrial use.

#### Manufacturer or supplier's details

#### Company

Sasol Oil Pty (Ltd)

#### Address

Sasol Place, 50 Katherine Street  
Sandton  
2090  
South Africa

#### Telephone

+27860335444

#### E-mail address

sasolchem.info.sa@sasol.com

#### Emergency telephone number

South Africa: 0800 11 28 90; International: +27 17 610 4444

### SECTION 2. Hazards identification

#### Classification of the substance or mixture

#### REGULATION (EC) No 1272/2008

#### Classification

Gases under pressure

Flammable gases

Category 1

Reproductive toxicity

Category 1A

Acute inhalation toxicity

Category 3

Specific target organ toxicity - repeated  
exposure

Category 2

#### Label elements

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### Hazard pictograms



### Signal word

:

Danger

### Hazard statements

:

H280 Contains gas under pressure; may explode if heated.  
H220 Extremely flammable gas.  
H361d Suspected of damaging the unborn child.  
H331 Toxic if inhaled.  
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

### Precautionary statements

#### Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P203 Obtain, read and follow all safety instructions before use.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
P261 Avoid breathing gas.  
P271 Use only outdoors or in a well-ventilated area.

#### Response

P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely.  
P381 In case of leakage, eliminate all ignition sources.  
P318 If exposed or concerned, get medical advice.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P319 Get medical help if you feel unwell.

#### Storage

P410 + P403 Protect from sunlight. Store in a well-ventilated place.  
P405 Store locked up.

#### Disposal

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

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### SECTION 3. Composition/information on ingredients

#### Mixture

##### Methane

Contents:  $\geq 82.50$  -  $\leq 94.00$  %W/W

CAS-No. 74-82-8

Index-No. 601-001-00-4

EC-No. 200-812-7

Hazard statements *H220 H280*

##### Nitrogen

Contents:  $< 6.00$  %W/W

CAS-No. 7727-37-9

Index-No.

EC-No. 231-783-9

Hazard statements *H280*

##### Argon

Contents:  $< 16.00$  %W/W

CAS-No. 7440-37-1

Index-No.

EC-No. 231-147-0

Hazard statements *H280*

##### Carbon Monoxide

Contents:  $< 4.00$  %W/W

CAS-No. 630-08-0

Index-No. 006-001-00-2

EC-No. 211-128-3

Hazard statements *H360D H372 H331 H220 H280*

##### Hydrogen

Contents:  $< 3.00$  %W/W

CAS-No. 1333-74-0

Index-No. 001-001-00-9

EC-No. 215-605-7

Hazard statements *H220 H280*

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### Ethylene

**Contents:** < 2.00 %W/W

**CAS-No.** 74-85-1

**Index-No.** 601-010-00-3

**EC-No.** 200-815-3

**Hazard statements** *H220 H336 H280*

### Ethane

**Contents:** < 2.00 %W/W

**CAS-No.** 74-84-0

**Index-No.** 601-002-00-X

**EC-No.** 200-814-8

**Hazard statements** *H220 H280*

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### SECTION 4. First aid measures

#### Description of necessary first-aid measures

<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Obtain medical attention.
<b>Skin contact</b>	Wash frost-bitten areas with plenty of water. Do not remove clothing.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes.

#### Most important symptoms/effects, acute and delayed

Refer to SECTION 11

<b>Treatment</b>	In case of shortness of breath, give oxygen.
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### SECTION 5. Firefighting measures

<b>Suitable extinguishing media</b>	Foam. Water spray. Dry powder.
<b>Special hazards arising from the substance or mixture</b>	Flash back possible over considerable distance. Extremely flammable gas.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

### SECTION 6. Accidental release measures

<b>Personal precautions</b>	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Wear self-contained breathing apparatus and protective suit.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so.
<b>Reference to other sections</b>	Refer to section 8 and 13

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### SECTION 7. Handling and storage

<b>Safe handling advice</b>	Observe special instructions applicable to compressed gases. Wear self-contained breathing apparatus and protective suit.
<b>Advice on protection against fire and explosion</b>	Keep away from heat and sources of ignition. Use only explosion-proof equipment.
<b>Requirements for storage areas and containers</b>	Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>Advice on common storage</b>	No data available.

### SECTION 8. Exposure controls/personal protection

#### Components with workplace control parameters

#### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
CARBON MONOXIDE	TWA	55 mg/m <sup>3</sup>	1995	South Africa RELs
	TWA	50 ppm	1995	South Africa RELs
	STEL	330 mg/m <sup>3</sup>	1995	South Africa RELs
	STEL	300 ppm	1995	South Africa RELs

#### Exposure controls

##### Engineering measures

In use, may form flammable/explosive vapour-air mixture.

##### Personal protective equipment

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Gloves suitable for permanent contact:  
Material: Leather gloves

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<b>Eye protection</b>	Safety glasses with side-shields.
<b>Skin and body protection</b>	Protective suit. Safety shoes.

### SECTION 9. Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Form</b>	Gaseous
<b>State of matter</b>	Gaseous
<b>Colour</b>	Colourless
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	No data available.
<b>pH</b>	No data available. Not applicable.
<b>Boiling point/boiling range</b>	-160 ° C
<b>Flash point</b>	-185.2 ° C
<b>Evaporation rate</b>	No data available.
<b>Flammability (solid, gas)</b>	No data available.
<b>Auto-ignition temperature</b>	537 ° C
<b>Lower explosion limit</b>	5 %(V); Lower flammability limit
<b>Upper explosion limit</b>	17 %(V); Upper flammability limit
<b>Vapour pressure</b>	No data available.
<b>Relative vapour density</b>	0.56 - 0.66
<b>Density</b>	No data available.
<b>Water solubility</b>	Insoluble
<b>Partition coefficient: n-octanol/water</b>	Not applicable.
<b>Viscosity, kinematic</b>	No data available.

### SECTION 10. Stability and reactivity

<b>Reactivity</b>	No data available.
<b>Chemical stability</b>	No data available.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Conditions to avoid</b>	Heat, flames and sparks.

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**Materials to avoid** Oxidizing agents.  
**Hazardous decomposition products** Carbon oxides

### SECTION 11. Toxicological information

<b>Acute oral toxicity</b>	Methane: No data available.
<b>Acute oral toxicity</b>	Nitrogen: No data available.
<b>Acute oral toxicity</b>	Argon: No data available.
<b>Acute inhalation toxicity</b>	Methane: LC50 Rat: 15 min; vapour; 1,442.738 - 1,443 mg/l;
<b>Acute inhalation toxicity</b>	Methane: LC50 Mouse: male; 2 h; vapour; 1,237 mg/l;
<b>Acute inhalation toxicity</b>	Nitrogen: No data available.
<b>Acute inhalation toxicity</b>	Argon: No data available.
<b>Acute dermal toxicity</b>	Methane: No data available.
<b>Acute dermal toxicity</b>	Nitrogen: No data available.
<b>Acute dermal toxicity</b>	Argon: No data available.
<b>Skin irritation</b>	Methane: No data available.
<b>Skin irritation</b>	Nitrogen: No data available.
<b>Eye irritation</b>	Methane: No data available.
<b>Eye irritation</b>	Nitrogen: No data available.
<b>Repeated dose toxicity</b>	Methane: No data available.



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<b>Repeated dose toxicity</b>	Nitrogen: No data available.
<b>Repeated dose toxicity</b>	Argon: No data available.
<b>Mutagenicity</b>	Methane: Bacterial reverse mutation assay: TA1535; with and without; negative; (literature value);
<b>Further Information</b>	No data available.

### SECTION 12. Ecological information

<b>Toxicity to fish</b>	Methane: 4 d; LC50; 24.11 - 147.54 mg/l;
<b>Toxicity to fish</b>	Nitrogen: No data available.
<b>Toxicity to fish</b>	Argon: No data available.
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Methane: 48 h; LC50; 14.22 - 69.43 mg/l
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Nitrogen: No data available.
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Argon: No data available.
<b>Toxicity to algae</b>	Nitrogen: No data available.
<b>Toxicity to algae</b>	Argon: No data available.
<b>Toxicity to bacteria</b>	Methane: 4 d; EC50; 7.71 - 19.37 mg/l
<b>Other adverse effects</b>	No data available.

### SECTION 13. Disposal considerations

<b>Product</b>	Dispose of as special waste in compliance with local and national regulations.
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### Packaging

Contaminated absorbent must be removed and disposed via an authorised waste contractor.

## SECTION 14. Transport information

### DG Pictogram



### ADR

UN number: 1954

Class: 2

1F;

Proper shipping name: COMPRESSED GAS, FLAMMABLE, N.O.S.  
(Methane, Carbon Monoxide)

### RID

UN number: 1954

Class: 2

1F

Proper shipping name: COMPRESSED GAS, FLAMMABLE, N.O.S.  
(Methane, Carbon Monoxide)

### ADNR

UN number: 1954

Class: 2

1F

Proper shipping name: COMPRESSED GAS, FLAMMABLE, N.O.S.  
(Methane, Carbon Monoxide)

### IMDG

UN number: 1954

Class: 2.1

EmS: F-D, S-U

Proper shipping name: COMPRESSED GAS, FLAMMABLE, N.O.S.

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(Methane, Carbon Monoxide)

ICAO/IATA

UN number : 1954

Class: 2.1

Proper shipping name: Compressed gas, flammable, n.o.s.  
(Methane, Carbon Monoxide)

### SECTION 15. Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

**Canada. DSL - Domestic Substances List, part of CEPA**

All chemical constituents are listed in: Canada. DSL - Domestic Substances List, part of CEPA (See chapter 3)

**Australia. AICS - Australian Inventory of Chemical Substances**

All chemical constituents are listed in: Australia. AICS - Australian Inventory of Chemical Substances (See chapter 3)

**New Zealand Inventory of Chemical Substances**

All chemical constituents are listed in: New Zealand Inventory of Chemical Substances (See chapter 3)

**Japan. ENCS - Existing and New Chemical Substances Inventory**

#### **Components Not listed**

Argon  
Nitrogen  
Hydrogen

**Japan. Industrial Safety and Health Law - Inventory**

#### **Components Not listed**

Argon  
Nitrogen  
Hydrogen

**Korea. KECI - Korean Existing Chemicals Inventory**

All chemical constituents are listed in: Korea. KECI - Korean Existing Chemicals Inventory (See chapter 3)

**Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances**

All chemical constituents are listed in: Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances (See chapter 3)

**China. IECSC - Inventory of Existing**

All chemical constituents are listed in: China. IECSC - Inventory

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<b>Chemical Substances in China</b>	of Existing Chemical Substances in China (See chapter 3)
<b>Taiwan. Chemical Substances Inventory (TCSI)</b>	All chemical constituents are listed in: Taiwan. Chemical Substances Inventory (TCSI) (See chapter 3)
<b>USA TSCA Inventory</b>	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)

### SECTION 16. Other information

#### Full text of H-Statements

- H220 Extremely flammable gas.
- H280 Contains gas under pressure; may explode if heated.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.
- H360D May damage the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.

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