



Material Safety Data Sheet

Methane Rich Gas

Version 1.00

Revision Date 06.05.2008

1. Identification of the substance/preparation and of the company/undertaking

Trade name	Methane Rich Gas
Synonyms	Methane Rich Gas, Synthitized Natural Gas
Company	Sasol Gas 272 Kent Avenue Ferndale, Randburg 1451

Information (Product safety) Telephone: +27 (0) 11 889 9000 Fax: +27 (0) 11 889 9210

Emergency telephone	Europe, Israel, Africa, Americas	+44 (0)208 762 8322
	Middle East, Arabic African countries	+961 3 487 287
	Asia Pacific	+65 633 44 177
	China	+86 10 5100 3039
	South Africa	+27 (0)17 610 4444

2. Hazards identification

Identification of the risks

R61	May cause harm to the unborn child.
R20	Also harmful by inhalation.
R48/20	Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
R12	Extremely flammable.

3. Composition/information on ingredients

Preparation on the base:

methane

Contents: 82.10 %W/W

CAS-No. 74-82-8
Symbol(s) F+

Index-No. 601-001-00-4
R-phrase(s) -R12

EC-No. 200-812-7



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carbon monoxide

Contents: 3.40 %W/W

CAS-No. 630-08-0

Symbol(s) F+, T

Index-No. 006-001-00-2

EC-No. 211-128-3

R-phrase(s) -R61 -R12 -R23 -R48/23

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. First aid measures

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

Notes to physician

Treatment In case of shortness of breath, give oxygen.

5. Fire-fighting measures

Suitable extinguishing media	Foam, Water spray, Dry powder
Specific hazards during fire fighting	Flash back possible over considerable distance. Extremely flammable liquefied gas
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.
Further information	Exposure to open flame or excessive heat can cause fire or explosion.

6. Accidental release measures

Personal precautions	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Wear self-contained breathing apparatus and protective suit.
Environmental precautions	Prevent further leakage or spillage if safe to do so.

7. Handling and storage



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Safe handling advice Observe special instructions applicable to compressed gases. Wear self-contained breathing apparatus and protective suit.

Advice on protection against fire and explosion Keep away from heat and sources of ignition. Use only explosion-proof equipment.

Storage

Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

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

Eye protection Safety glasses with side-shields

Skin and body protection Protective suit, Safety shoes

Protective measures Wear suitable protective equipment.

9. Physical and chemical properties

state of matter gaseous
Colour colourless
Odour odourless
Boiling point/boiling range -160 °C
Flash point -185.2 °C



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Autoignition temperature	537 °C
Lower explosion limit	5 %(V); lower flammability limit
Upper explosion limit	17 %(V); upper flammability limit
Water solubility	insoluble

10. Stability and reactivity

Materials to avoid	Oxidizing agents
Hazardous decomposition products	Carbon oxides
Hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological information

Further information	no data available
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12. Ecological information

Ecotoxicity effects	
General advice	no data available

13. Disposal considerations

Product	Dispose of in accordance with local regulations.
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14. Transport information

ADR	UN-Number: 1954; Class: 2; 1F; Description of the goods: COMPRESSED GAS, FLAMMABLE, N.O.S. (Methane, Carbon Monoxide)
RID	UN-Number: 1954; Class: 2; 1F; Description of the goods: COMPRESSED GAS, FLAMMABLE, N.O.S. (Methane, Carbon Monoxide)
ADNR	UN-Number: 1954; Class: 2; 1F; Description of the goods: COMPRESSED GAS, FLAMMABLE, N.O.S. (Methane, Carbon Monoxide)
IMDG	UN-Number: 1954; Class: 2.1; EmS: F-D, S-U; Description of the goods: COMPRESSED GAS, FLAMMABLE, N.O.S. (Methane, Carbon Monoxide)



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ICAO/IATA

UN-Number : 1954; Class: 2.1; Description of the goods:
Compressed gas, flammable, n.o.s.
(Methane, Carbon Monoxide)

15. Regulatory information

Labelling



Regulatory base

1999/45/EC

Symbol(s)

F+: Extremely flammable
T: Toxic

R-phrase(s)

R61: May cause harm to the unborn child.
R20: Also harmful by inhalation.
R48/20: Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
R12: Extremely flammable.

S-phrase(s)

S53: Avoid exposure - obtain special instructions before use.
S 9: Keep container in a well-ventilated place.
S16: Keep away from sources of ignition - No smoking.
S33: Take precautionary measures against static discharges.
S35: This material and its container must be disposed of in a safe way.
S36/37: Wear suitable protective clothing and gloves.

Special labelling of certain preparations

Restricted to professional users.

Hazardous components which must be listed on the label

carbon monoxide



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16. Other information

Full text of R-phrases referred to under sections 2 and 3

R12	Extremely flammable.
R23	Toxic by inhalation.
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R61	May cause harm to the unborn child.

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