



## Material Safety Data Sheet

### Sasol Natural Gas

Version 1.01

Revision Date 19.05.2011

---

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

|                                     |   |
|-------------------------------------|---|
| <b>Trade name</b>                   | <b>Sasol Natural Gas</b>  |
| <b>Synonyms</b>                     | <b>Sasol Natural Gas, Marsh Gas</b>   |
| <b>Company</b>                      | Sasol Gas<br>272 Kent Avenue<br>Ferndale, Randburg<br>1451  |
| <b>Information (Product safety)</b> | <b>Telephone:</b> +27 (0) 11 889 9000 <b>Fax:</b> +27 (0) 11 889 9210<br><b>E-mail address</b> <a href="mailto:msds.info@sasol.com">msds.info@sasol.com</a>   |
| <b>Emergency telephone number</b>   | Europe, Israel, Africa, Americas +44 (0)1235 239 670<br>Middle East, Arabic African countries +44 (0)1235 239 671<br>Asia Pacific +65 3158 1074<br>China +86 10 5100 3039<br>South Africa +27 (0)17 610 4444<br>Australia +61 2 9032 0460 |

---

#### 2. Hazards identification

##### Identification of the risks

R12 Extremely flammable.

---

#### 3. Composition/information on ingredients

##### Preparation on the base:

##### methane

**Contents:** 87.60 %W/W

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

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

**EC-No.** 200-812-7

##### ethane

**Contents:** 3.70 %W/W

**CAS-No.** 74-84-0  
**Symbol(s)** F+

**Index-No.** 601-002-00-X  
**R-pharse(s)** -R12

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



## Material Safety Data Sheet

### Sasol Natural Gas

Version 1.01

Revision Date 19.05.2011

**propane**

**Contents:** 2.60 %W/W

**CAS-No.** 74-98-6

**Symbol(s)** F+

**Index-No.** 601-003-00-5

**R-phrase(s)** -R12

**EC-No.** 200-827-9

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

#### 4. First aid measures

|                           |   |
|---------------------------|---|
| <b>General advice</b>     | If you feel unwell, seek medical advice (show the label where possible).                          |
| <b>Inhalation</b>         | Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration.     |
| <b>Skin contact</b>       | Wash frost-bitten areas with plenty of water. Do not remove clothing. Do not rub affected area.   |
| <b>Eye contact</b>        | In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| <b>Notes to physician</b> |   |
| <b>Treatment</b>          | In case of shortness of breath, give oxygen.  |

#### 5. Fire-fighting measures

|   |  |
|---|--|
| <b>Suitable extinguishing media</b>                   | Foam, Water spray, Dry powder  |
| <b>Specific hazards during fire fighting</b>          | Flash back possible over considerable distance.  |
| <b>Special protective equipment for fire-fighters</b> | Wear self-contained breathing apparatus and protective suit.   |
| <b>Further information</b>                            | Cool containers / tanks with water spray. May form explosive mixtures with air and oxidizing mixtures. Heating may cause an explosion. |

#### 6. Accidental release measures

|                                  |   |
|----------------------------------|---|
| <b>Personal precautions</b>      | Keep people away from and upwind of spill/leak. Remove all sources of ignition. Avoid skin contact with leaking liquid (danger of frostbite). |
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so.   |



## Material Safety Data Sheet

### Sasol Natural Gas

Version 1.01

Revision Date 19.05.2011

---

## 7. Handling and storage

---

### Handling

**Safe handling advice** Wear personal protective equipment. Observe special instructions applicable to compressed gases.

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

**Fire-fighting class** Fires involving gases.

### Storage

**Requirements for storage areas and containers** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from sources of ignition - No smoking. Keep away from heat. Provide safety relief.

---

## 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

---

**Form** gaseous



## Material Safety Data Sheet

### Sasol Natural Gas

Version 1.01

Revision Date 19.05.2011

|                                    |  |
|------------------------------------|--|
| <b>State of matter</b>             | <i>gaseous; at 20 °C; 1,013 hPa</i>      |
| <b>Colour</b>                      | <i>colourless</i>                        |
| <b>Odour</b>                       | <i>odourless</i>                         |
| <b>Boiling point/boiling range</b> | <i>-161 °C</i>                           |
| <b>Flash point</b>                 | <i>-188 °C</i>                           |
| <b>Autoignition temperature</b>    | <i>630 °C</i>                            |
| <b>Lower explosion limit</b>       | <i>5 %(V); lower flammability limit</i>  |
| <b>Upper explosion limit</b>       | <i>15 %(V); upper flammability limit</i> |
| <b>Water solubility</b>            | <i>slightly soluble</i>                  |

#### 10. Stability and reactivity

|   |   |
|---|---|
| <b>Materials to avoid</b>               | <i>Oxidizing agents, Acids, Flammable materials, Nitrogen oxides (NOx), Halogenated compounds, Air, Hypoflourites</i> |
| <b>Hazardous decomposition products</b> | <i>Carbon dioxide (CO<sub>2</sub>)<br/>Carbon monoxide</i>  |
| <b>Hazardous reactions</b>              | <i>Hazardous polymerisation does not occur.</i>   |

#### 11. Toxicological information

|                            |                          |
|----------------------------|--------------------------|
| <b>Further information</b> | <i>no data available</i> |
|----------------------------|--------------------------|

#### 12. Ecological information

|                            |                          |
|----------------------------|--------------------------|
| <b>Ecotoxicity effects</b> |                          |
| <b>Further information</b> | <i>no data available</i> |

#### 13. Disposal considerations

|                |   |
|----------------|---|
| <b>Product</b> | <i>Dispose of in accordance with local regulations.</i> |
|----------------|---|

#### 14. Transport information

|            |   |
|------------|---|
| <b>ADR</b> | <i>UN number: 1971; Class: 2; 1F; Description of the goods: NATURAL GAS, COMPRESSED</i> |
| <b>RID</b> | <i>UN number: 1971; Class: 2; 1F; Description of the goods: NATURAL GAS, COMPRESSED</i> |



## Material Safety Data Sheet

### Sasol Natural Gas

Version 1.01

Revision Date 19.05.2011

---

|                  |   |
|------------------|---|
| <b>ADNR</b>      | UN number: 1971; Class: 2; 1F; Description of the goods: METHANE, COMPRESSED                  |
| <b>IMDG</b>      | UN number: 1971; Class: 2.1; EmS: F-D, S-U; Description of the goods: NATURAL GAS, COMPRESSED |
| <b>ICAO/IATA</b> | UN number : 1971; Class: 2.1; Description of the goods: Natural gas, compressed               |

## 15. Regulatory information

---

### Labelling



|                        |  |
|------------------------|--|
| <b>Regulatory base</b> | 1999/45/EC   |
| <b>Symbol(s)</b>       | F+: Extremely flammable  |
| <b>R-phrases(s)</b>    | R12: Extremely flammable.  |
| <b>S-phrases(s)</b>    | S 9: Keep container in a well-ventilated place.<br>S16: Keep away from sources of ignition - No smoking.<br>S33: Take precautionary measures against static discharges.<br>S60: This material and its container must be disposed of as hazardous waste.<br>S43: In case of fire, use sand, dry chemical or alcohol-resistant foam. |

## 16. Other information

---

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

R12 Extremely flammable.



## **Material Safety Data Sheet**

### **Sasol Natural Gas**

**Version 1.01**

**Revision Date 19.05.2011**

---

*All reasonable efforts were exercised to compile this SDS in accordance with ISO 11014 and ANSIZ400.1.1993. The SDS provides information regarding the health, safety and environmental hazards, at the date of issue, to facilitate the safe receipt, use and handling of the product in the workplace. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which the product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which the product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place as regards health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of the product.*

*Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy or assume any liability for the incompleteness of the information contained herein or any advice given. The product is sold and risk passes in accordance with the specific terms and conditions of sale.*

*The MSDS was created by: MOTLATSI*

*The MSDS was approved by: Paul*