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

### 1.1. Product identifier

Trade name	Methan 4% - Nitrogen 96%
Chemical description	Methan 4% - Nitrogen 96%
CAS N°	-
CE N°	-
Index N°	--
Registration n°	-
Chemical formula	CH <sub>4</sub> , N <sub>2</sub>

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

Relevant identified uses	Industrial and professional Aerosol propellant Bottom gas for mixtures. Overlying gases. Calibration gases. Carrier gas. Fire inhibitor gas. Food packaging gases. Inert gas Laboratory use Shield gas for welding processes
Uses advised against	None

### 1.3. Details of the supplier of the safety data sheet

Company identification	MULTIGAS Route de l'Industrie 102 CH-1564 Domdidier
Phone number	+41 (0) 26 676 94 94
E-mail address	<a href="mailto:info@multigas.ch">info@multigas.ch</a>

### 1.4. Emergency telephone numbers

145 (Toxicology Centre Zurich) or +41 (0) 44 251 51 51  
 +41 (0) 26 676 94 94 (Multigas)

## SECTION 2: Hazards identification


### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazards Gases under pressure : Compressed gas

H280

For the complete H-sentences texts mentioned in that chapter, refer to Section 16

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## 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS04

Signal word

Warning

Hazard statements

H280

Contains gas under pressure; may explode if heated

Precautionary statements

P410+403

Protect from solar radiation. Store in a well-ventilated place

## 2.3. Other hazards

Asphyxiant in high concentrations

## SECTION 3: Composition/information on ingredients

### 3.1. Substances


Name	Product identifier	Concentration	Classification
Nitrogen	(CAS-No.) 7727-37-9 (EC-No.) 231-783-9 (EC Index-No.) --- (Registration-No.) --	96%	Press. Gas (Comp.), H280
Methane	(CAS-No.) 74-82-8 (EC-No.) 200-812-7 (EC Index-No.) --- (Registration-No.) --	4%	Flam. gas 1 ;H220 Press. Gas (Comp.) ;H280

For the complete H-sentences texts mentioned in that chapter, refer to Section 16

Contains no other components or impurities which will influence the classification of the product

### 3.2. Mixtures

Not established

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**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

<b>General advices</b>	See a doctor. Show this safety data sheet to the attending physician
<b>In case of inhalation</b>	In case of inhalation, remove the person from the contaminated area. In case of respiratory arrest, give artificial respiration. See a doctor
<b>In case of skin contact</b>	No adverse effects expected
<b>In case of eyes contact</b>	In case of direct contact with the eyes, consult a doctor
<b>In case of ingestion</b>	Ingestion is not considered a possible route of exposure

**4.2. Most important symptoms and effects, both acute and delayed**

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation  
Refer to section 11

**4.3. Indication of any immediate medical attention and special treatment needed**

Data not available

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Water spray or water mist. Dry powder. Foam
<b>Unsuitable extinguishing media</b>	Do not use water jet

**5.2. Special hazards arising from the substance or mixture**

<b>Specific hazards</b>	Exposure to fire may cause containers to rupture/explode
<b>Hazardous combustion products</b>	-

**5.3. Additional information**

Wear self-contained breathing apparatus for firefighting, if necessary

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid breathing vapours, spray mists or gases  
Provide adequate ventilation  
Evacuate the staff to safe place  
Personal protective equipment, see section 8

**Methan 4% - Nitrogen 96%**

**MTGxxx**

**6.2. Environmental precautions**

-

**6.3. Methods and material for containment and cleaning up**

-

**6.4. Reference to other sections**

See also sections 8 and 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

See also sections 8 and 13

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool place. Keep container tightly closed in a dry and well-ventilated place

Pressurized contents

**7.3. Specific end use(s)**


-

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Components with occupational exposure limits**

Component	CAS N°	Exposure value type	Value	Source
Nitrogen	7727-37-9	TWA	-	No occupational exposure limit value
			-	
		OEL	-	
			-	
Methane	74-82-8	TWA	10'000 ppm	SUVA: Exposure limit values at workstations
			6'700 mg/m <sup>3</sup>	
		OEL	-	SUVA: Exposure limit values at workstations
			-	

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## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation  
Oxygen detectors should be used when asphyxiating gases may be released

### 8.2.2. Individual protection measures, e.g. personal protective equipment

<b>Eye/face protection</b>	Wear safety glasses with side shields. Standard EN 166
<b>Skin / hand protection</b>	Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk
<b>Respiratory protection</b>	Self-contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask

### 8.2.3. Environmental exposure controls

-

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	
• Physical state at 20°C / 101.3kPa	Gas
• Colour	Colourless
<b>Odour</b>	Data not available
<b>Odour threshold</b>	Data not available
<b>pH</b>	Data not available
<b>Melting point / Freezing point</b>	Data not available
<b>Boiling point</b>	-188.5°C
<b>Flash point</b>	Data not available
<b>Evaporation rate</b>	Data not available
<b>Flammability (solid, gas)</b>	Data not available
<b>Explosive limits</b>	Data not available
<b>Vapour pressure [20°C]</b>	Data not available
<b>Vapour pressure [50°C]</b>	Data not available
<b>Vapour density</b>	Data not available
<b>Relative density, liquid (water=1)</b>	Data not available
<b>Relative density, gas (air=1)</b>	0.95

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**MTGxxx**

<b>Water solubility</b>	20 mg/l
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Data not available
<b>Auto-ignition temperature</b>	Data not available
<b>Decomposition temperature</b>	Data not available
<b>Viscosity</b>	Data not available
<b>Explosive properties</b>	Data not available
<b>Oxidising properties</b>	Data not available

**9.2. Other information**

<b>Molar mass</b>	27.52 g/mol
<b>Critical temperature [°C]</b>	Data not available

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Data not available

**10.2. Chemical stability**

Stable under the recommended storage conditions

**10.3. Possibility of hazardous reactions**

Data not available

**10.4. Conditions to avoid**

Data not available

**10.5. Incompatible materials**

None  
For additional information on compatibility refer to ISO 11114 standard

**10.6. Hazardous decomposition products**

Under normal conditions of storage and use, the products of hazardous decomposition should not be produced  
Hazardous decomposition products are formed in the event of fires.  
Nitrogen oxides (NOx)

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**SECTION 11: Toxicological information**

**11.1. Chemical safety assessment**

<b>Acute toxicity</b>	Data not available
<b>Skin corrosion/irritation</b>	Data not available
<b>Serious eye damage/irritation</b>	Data not available
<b>Respiratory or skin sensitisation</b>	Data not available
<b>Germ cell mutagenicity</b>	Data not available
<b>Carcinogenicity</b>	Data not available
<b>Reproductive toxicity</b>	Data not available
<b>STOT-single exposure – Target organ(s)</b>	Data not available
<b>STOT-repeated exposure</b>	Data not available
<b>Aspiration hazard</b>	Data not available

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Assessment** No ecological damage caused by this product

**12.2. Persistence and degradability**

Data not available

**12.3. Bioaccumulative potential**

Data not available

**12.4. Mobility in soil**

Data not available

**12.5. Results of PBT and vPvB assessment**

Data not available. The PBT / vPvB assessment is not available because the chemical safety assessment is not required / is not conducted

**12.6. Other adverse effects**

Data not available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Product** May be vented to atmosphere in a well-ventilated place

**Methan 4% - Nitrogen 96%**

**MTGxxx**

Do not discharge into any place where its accumulation could be dangerous

**Contaminated container**

Return unused product in original cylinder to supplier

**OMoD Code**

16 05 05

Gases in pressure containers other than those mentioned in 16 05 04.

**SECTION 14: Transport information**

**14.1. UN number**

Transport par road/rail ADR / RID	Transport by sea IMDG	Transport by air IATA
1956	1956	1956

**14.2. UN proper shipping name**

Transport par road/rail ADR / RID	Transport by sea IMDG	Transport by air IATA
COMPRESSED GAS, N.O.S., (Nitrogen, Methane)	COMPRESSED GAS, N.O.S., (Nitrogen, Methane)	COMPRESSED GAS, N.O.S., (Nitrogen, Methane)

**14.3. Transport hazard class(es)**

**Labelling**



**ADR/RID  
 IMDG  
 IATA**

2.2 : Non-flammable, non-toxic gases

**14.4. Packing group**

**ADR/RID  
 IMDG  
 IATA**

-

**14.5. Environmental hazards**

**ADR/RID**

No

**IMDG**

No

**ICAO-TI / IATA-DGR**

No


**14.6. Special precautions for user**

Data not available

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable



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## SECTION 15: Regulatory information

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

This safety data sheet complies with the requirements of Regulation (CE) No. 1907/2006

### **15.2. Chemical safety assessment**

A CSA does not need to be carried out for this product

## SECTION 16: Other information


<b>Indication of changes</b>	Revised safety data sheet in accordance with commission regulation (EU) No 2015/830
<b>Abbreviations and acronyms</b>	<p>ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>CAS : Chemical Abstract Service number (USA)</p> <p>CLP : Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008</p> <p>CSA : Chemical Safety Assessment</p> <p>EIGA : European Industrial Gases Association</p> <p>EINECS : European Inventory of Existing Commercial Chemical Substances</p> <p>EN : European Standard</p> <p>ATE : Acute Toxicity Estimate</p> <p>IATA : International Air Transport Association</p> <p>IMDG Code : International Maritime Dangerous Goods Code</p> <p>LC50 : Lethal Concentration to 50 % of a test population</p> <p>OMoD : Swiss Ordinance on the movement of waste</p> <p>PBT : Persistent, Bioaccumulative and Toxic</p> <p>PPE: Personal Protection Equipment</p> <p>REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006</p> <p>RID : Regulations concerning the international carriage of dangerous goods by rail</p> <p>RMM : Risk Management Measures</p> <p>STOT-SE : Specific Target Organ Toxicity - Single Exposure</p> <p>UN : United Nations</p> <p>vPvB : Very Persistent and Very Bioaccumulative</p> <p>WGK: Water Hazards Class</p>

### **Full text of H, EUH and P statements used in sections 2 and 3**

#### **Hazard statements**

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Contains gas under pressure; may explode if heated

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**Precautionary statements**

P410+403      Protect from solar radiation. Store in a well-ventilated place

**Disclaimer of liability**

Details given in this document have been prepared based on the most available reliable documents and are believed to be correct at the time of going to press

They do not claim to be exhaustive and should be considered as a guide