

## 2.5% Vol CH<sub>4</sub> // Air

### 103DS2.5VCH4A



2.2 : Non flammable, non toxic gas.

# Warning



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

**Product identifier**  
**Trade name** : 2.5% Vol CH<sub>4</sub> // Air  
**SDS Nr** : 103DS2.5VCH4A  
**Use** : Industrial and professional. Perform risk assessment prior to use.  
**Company identification** : CAC GAS & Instrumenation Pty Ltd  
 Unit 3  
 42 Carrington Road  
 Castle Hill 2154 AUSTRALIA  
**Emergency telephone number** : 0400959760

## 2 Hazards identification

### Classification of the substance or mixture

**Hazard Class and Category Code**  
**Regulation EC 1272/2008 (CLP)**

• **Physical hazards** : Gases under pressure - Compressed gas - Warning (H280)

### Label elements

**Labelling Regulation EC 1272/2008 (CLP)**

• **Hazard pictograms**



• **Hazard pictograms code**

• **Signal word**

: Warning

• **Hazard statements**

: H280 : Contains gas under pressure; may explode if heated.

• **Precautionary statements**

- **Storage**

: P403 : Store in a well-ventilated place.

**Labelling EC 67/548 or EC 1999/45**

**Symbol(s)**

: None.

**R Phrase(s)**

: None.

**S Phrase(s)**

## 2.5% Vol CH4 // Air

## 103DS2.5VCH4A

### 2 Hazards identification (continued)

#### Other hazards

Other hazards : None.

### 3 Composition/information on ingredients

Substance / Preparation : Preparation.  
 Components : This product is hazardous.

Substance name	Contents	CAS No	EC No	Index No	Registration no	Classification
Methane	2.5	74-82-8	200-812-7	601-001-00-4	NOTE 1	F+; R12 ----- Flam. Gas 1 (H220) Press. Gas (H280)
Nitrogen	77.025	7727-37-9	231-783-9	-----	NOTE 1	----- Press. Gas (H280)
Oxygen	20.475	7782-44-7	231-956-9	008-001-00-8	NOTE 1	O; R8 ----- Ox. Gas 1 (H270) Press. Gas (H280)

Full text of R-phrases see chapter 16

Full text of H-statements see chapter 16

Note 1: Listed in Annex IV / V REACH, exempted from registration.

Note 2: Registration deadline not expired.

### 4 First aid measures

- Inhalation : Not hazardous.
- Skin/eye contact : No effect on living tissue.  
Ingestion is not considered a potential route of exposure.
- Ingestion : Ingestion is not considered a potential route of exposure.

### 5 Fire-fighting measures

- Specific hazards : Exposure to fire may cause containers to rupture/explode.  
Supports combustion.
- Hazardous combustion products : None.
- Extinguishing media
- Suitable extinguishing media : All known extinguishants can be used.
- Specific methods : If possible, stop flow of product.  
Move away from the container and cool with water from a protected position.
- Special protective equipment for fire fighters : None.

### 6 Accidental release measures

- Personal precautions : None necessary.

### 7 Handling and storage

- Handling : Open valve slowly to avoid pressure shock.  
Suck back of water into the container must be prevented.  
Do not allow backfeed into the container.  
Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.  
Refer to supplier's container handling instructions.

**2.5% Vol CH4 // Air**
**103DS2.5VCH4A**
**7 Handling and storage (continued)**

**Storage** : Keep container below 50°C in a well ventilated place.

**8 Exposure controls/personal protection**

**Personal protection** : None necessary.

**9 Physical and chemical properties**

**Physical state at 20 °C** : Compressed gas.  
**Colour** : Colourless gas.  
**Odour** : Odourless.  
**Relative density, gas (air=1)** : Lighter or similar to air.

**10 Stability and reactivity**

**Stability and reactivity** : Stable under normal conditions.

**11 Toxicological information**

**Toxicity information** : No toxicological effects from this product.  
**Rat inhalation LC50 [ppm/4h]** : No data available.

**12 Ecological information**

**Ecological effects information** : No ecological damage caused by this product.  
**Effect on ozone layer** : None.  
**Global warming potential [CO2=1]** : Contains greenhouse gas(es) not covered by 842/2006/EC

**13 Disposal considerations**

**General** : None.  
**Disposal method** : Consult supplier for specific recommendations.

**14 Transport information**

**UN number** : 1956  
**• Labelling ADR, IMDG, IATA**

: 2.2 : Non flammable, non toxic gas.

Land transport

**ADR/RID**  
**H.I. nr** : 20  
**UN proper shipping name** : COMPRESSED GAS, N.O.S. (Nitrogen, Oxygen)  
**Transport hazard class(es)** : 2

## 2.5% Vol CH4 // Air

## 103DS2.5VCH4A

### 14 Transport information (continued)

- ADR/RID Classification code : 1 A
- Packing Instruction(s) - General : P200
- Tunnel Restriction : E : Passage forbidden through tunnels of category E.

#### Sea transport

- IMO-IMDG code
- Proper shipping name : COMPRESSED GAS, N.O.S. (Nitrogen, Oxygen)
- Class : 2.2
- IMO Packing group : P200
- Emergency Schedule (EmS) - Fire : F-C
- Emergency Schedule (EmS) - Spillage : S-V
- Instructions - Packing : P200

#### Air transport

- ICAO/IATA
- Proper shipping name : COMPRESSED GAS, N.O.S. (Nitrogen, Oxygen)
- Class : 2.2
- Passenger and Cargo Aircraft :
- Packing instruction : 200
- Cargo Aircraft only :
- Packing instruction : 200

Avoid transport on vehicles where the load space is not separated from the driver's compartment.

Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.

Before transporting product containers :

- Ensure that containers are firmly secured.
- Ensure cylinder valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.
- Ensure there is adequate ventilation.
- Compliance with applicable regulations.

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture** : Ensure all national/local regulations are observed.

### 16 Other information

Receptacle under pressure.

- List of full text of R-phrases in section 3.** : R8 : Contact with combustible material may cause fire.  
R12 : Extremely flammable.

- List of full text of H-statements in section 3.** : H220 : Extremely flammable gas.  
H270 : May cause or intensify fire; oxidiser.  
H280 : Contains gas under pressure; may explode if heated.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

**2.5% Vol CH4 // Air**

**103DS2.5VCH4A**

**16 Other information (continued)**

**DISCLAIMER OF LIABILITY**

: Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

**End of document**