

**SAFETY DATA SHEET - CALIBRATION CHECK GAS**

**PRODUCT:** <0.5% CARBON MONOXIDE/<2.5% METHANE/<10% CARBON DIOXIDE/  
 ≤21% OXYGEN BALANCE NITROGEN **PAGE:** 1/4

**SDS NO:** 026C **Version:** 1 **Date:** 31 August 2007

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**

SDS NO: 026C

Product Name: <0.5% Carbon Monoxide/≤2.5% Methane/<10% Carbon Dioxide/  
 ≤21% Oxygen Balance Nitrogen in Cylinders (≥17 litres)

Company Identification: See heading and/or footer

**2. HAZARDS IDENTIFICATION**

Hazards identification In high concentrations may cause asphyxiation.  
 Compressed gas  
 May impair fertility or cause harm to the unborn child  
 At higher concentrations is harmful (see WEL)

**3. COMPOSITION/INFORMATION OF INGREDIENTS**

Substance/Preparation Preparation

Composition/Impurities Contains no other components or impurities, which will influence the classification of the product

**4. FIRST AID MEASURES**

Inhalation In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim is not aware of asphyxiation. Remove victim to uncontaminated area wearing a self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

Ingestion Ingestion is not considered a potential route of exposure

**5. FIRE-FIGHTING MEASURES**

Fire-fighting measures These containers hold gas under pressure, with no liquid phase. If involved in a major fire, they should be sprayed with water to avoid pressure increases, otherwise pressures will rise and ultimately they may distort or burst to release the contents. The gases will not add significantly to the fire, but containers or fragments may be projected considerable distances - thereby hampering fire-fighting efforts.



Molenstraat 84  
B-2640 Mortsel  
M +32 (0)474 67 18 82  
F +32 (0)3 457 77 17  
info@mtechgas.be  
[www.mtechgas.be](http://www.mtechgas.be)

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### 6. ACCIDENTAL RELEASE MEASURES

Accidental Release Measures In terms of weight, these containers hold very little contents, such that any accidental release by puncturing etc. will be of no practical concern.

### 7. HANDLING AND STORAGE

Handling and Storage Suck back of water into the container must be prevented. Do not allow back feed 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.

Cylinders should be stored upright and it is good practice to keep inert, flammables and oxidants apart. All cylinders should be stored with the regulator detached, this provides a very useful safety measure as it prevents accidental high pressure gas discharge. Store either outside or in a well ventilated area, away from ignition sources, ideally in a secure storage area.

High temperatures will cause the gas to expand resulting in a rise in pressure, the upper recommended limit is 45°C or 50°C, however, there is a large safety margin on the burst pressure. Mtech guarantees all mixtures to 0°C.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection Ensure adequate ventilation  
Carbon Monoxide WEL = 30ppm (8 hr TWA) 200ppm (15 min TWA)  
No WEL published data for Methane or Oxygen

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Relative density, gas	Lighter or similar to air
Solubility mg/l water	Not known
Appearance/Colour	Colourless gas
Odour	None

### 10. STABILITY AND REACTIVITY

Stability and reactivity Stable under normal conditions.

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**11. TOXICOLOGICAL INFORMATION**

General Harmful by inhalation at higher concentrations  
 Delayed adverse effects possible

**12. ECOLOGICAL INFORMATION**

General No ecological damage caused by this product

**13. DISPOSAL INFORMATION**

Disposal Do not discharge into any place where its accumulation could be dangerous. Used containers are acceptable for disposal in the normal waste stream. A recycle tool is available from Mtech to enable a used non-refillable cylinder to be punctured and safely disposed of.

**14. TRANSPORT INFORMATION**

Land transport ADR/RID  
 Sea transport IMDG  
 Air transport ICAO/IATA

UN number: UN1956  
 Proper Shipping Name: Compressed gas n.o.s. (contains nitrogen, carbon monoxide, oxygen)  
 Class: 2 (ADR) 2.2 (IMDG/IATA)  
 ADR classification code: 1A  
 Packing Group: N/A  
 Marine Pollutant: N/A

**15. REGULATORY INFORMATION**

Regulatory Information Following the HSE Approved Supply List (L142) and the UK's CHIP (as currently amended) Regulations –

Mixtures of <0.5% Carbon Monoxide are classified as non-toxic/non-flammable  
 Mixtures of ≥0.5% and <5.0% Carbon Monoxide are classified as harmful/non-flammable  
 Mixtures of <5.0% Methane are classified as non-toxic/non-flammable.



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**16. OTHER INFORMATION**

S(2) Keep out of the reach of children  
S9 Keep container in a well-ventilated place  
S17 Keep away from combustible material

This SDS has been prepared in accordance with the Chemicals (Hazard Information and Packaging for Supply Regulation (as currently amended). The information is based on the best knowledge of Mtech and its advisors and is given in good faith, but we cannot guarantee its accuracy, reliability or completeness and therefore disclaim any liability for loss or damage arising out of use of this data. Since conditions of use are outside the control of the Company and its advisors we disclaim any liability for loss or damage when the product is used for other purposes than it is intended.

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