

SAFETY DATA SHEET - CALIBRATION CHECK GAS

PRODUCT: 100% CARBON MONOXIDE **PAGE:** 1/4
SDS NO: 024C **Version:** 2 **Date:** 29 October 2008

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

SDS NO: 024C
 Product Name: 100% Carbon Monoxide (\geq 17 litres)
 Company Identification: See heading and/or footer

2. HAZARDS IDENTIFICATION

Hazards identification Toxic by inhalation, danger from prolonged exposure.
 Extremely flammable – readily forms explosive mixtures with air
 Compressed gas odourless, colourless.
 May impair fertility or cause harm to the unborn child

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 Toxic by inhalation. Symptoms may include dizziness, headache, nausea and loss of co-ordination. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

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.

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.

SAFETY DATA SHEET - CALIBRATION CHECK GAS

PRODUCT: 100% CARBON MONOXIDE **PAGE:** 2/4
SDS NO: 024C **Version:** 2 **Date:** 29 October 2008

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 The gas should not be vented in enclosed areas and inhalation of the gas must be avoided. (See section 11).
 Carbon Monoxide WEL - 30ppm (8hr TWA) 200ppm (15min TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

Relative density, gas	Similar to air
Solubility mg/l water	30 mg/l
Appearance/Colour	Colourless gas
Odour	None

10. STABILITY AND REACTIVITY

Stability and reactivity Can form explosive mixture with air. May react violently with oxidants

11. TOXICOLOGICAL INFORMATION

General Toxic by inhalation. Delayed adverse effects possible.

SAFETY DATA SHEET - CALIBRATION CHECK GAS

PRODUCT: 100% CARBON MONOXIDE **PAGE:** 3/4
SDS NO: 024C **Version:** 2 **Date:** 29 October 2008

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: UN1016
 Proper Shipping Name: Compressed gas Toxic, Flammable n.o.s. (carbon monoxide)
 Class: 2 (ADR) 2.3 sub risk 2.1(IMDG/IATA)
 ADR classification code: 1TF
 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 100% are classified as Toxic / Flammable.



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

SAFETY DATA SHEET - CALIBRATION CHECK GAS

PRODUCT: 100% CARBON MONOXIDE **PAGE:** 4/4
SDS NO: 024C **Version:** 2 **Date:** 29 October 2008

16. OTHER INFORMATION

Mixtures containing 100% Carbon Monoxide

R23	Toxic by inhalation
R12	Extremely Flammable
R61	May cause harm to the unborn child
R48	Toxic : Danger of serious damage to health by prolonged exposure through inhalation
S1/2	Keep locked up / out of reach of children
S9	Keep container in a well ventilated place
S16	Keep away from sources of ignition – No smoking
S53	Avoid exposure – obtain special instructions before use
S45	In case of accident or if you feel unwell seek medical advice immediately

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.
