

SAFETY DATA SHEET - CALIBRATION CHECK GAS

PRODUCT: $\leq 21\%$ NITROUS OXIDE BALANCE NITROGEN **PAGE:** 1/4
SDS NO: 085B **Version:** 3 **Date:** 29 October 2008

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

SDS NO: 085B
 Product Name: $\leq 21\%$ Nitrous Oxide Balance Nitrogen (≥ 17 litres)
 Company Identification: See heading and/or footer

2. HAZARDS IDENTIFICATION

Hazards identification At high concentrations can cause asphyxiation.
 Compressed gas

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 may not be 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.

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.

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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
 WEL – LTEL 100ppm Nitrous Oxide

9. PHYSICAL AND CHEMICAL PROPERTIES

Relative density, gas Similar to air
Solubility mg/l water Not known, but considered to have low solubility
Appearance/Colour Colourless gas
Odour None

10. STABILITY AND REACTIVITY

Stability and reactivity Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

General No known toxicological effects from this product

12. ECOLOGICAL INFORMATION

General No ecological damage caused by this product



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16. OTHER INFORMATION

For mixtures of $<21\%$ nitrous oxide

R20/21 Harmful by inhalation and skin contact

S9 Keep container in a well ventilated place

S23 Do not breathe vapour

S45 In case of accident or if you feel unwell, seek medical advice immediately (show label whenever possible).

For mixtures of $\geq 21\%$ nitrous oxide

All of the above and the following apply:

R8 Contact with combustible material may cause fire

S17 Keep away from combustible material

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