

# SAFETY DATA SHEET

(According to EEC Directive 91/155/EEC and amendments)

## Calibration Gas 1 (Code 962-169)

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Calibration Gas 1 (Code 962-169)

**Application:** For in vitro diagnostic use      **Container size:** Compressed gas cylinder, 1 l

**Supplier:**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name:	CAS-number:	%:	Hazard classification:
Carbon dioxide (CO <sub>2</sub> )	124-38-9	5.60	None
Nitrogen (N <sub>2</sub> )	7727-37-9	74.64	None
Oxygen (O <sub>2</sub> )	7782-44-7	19.76	O; R8

### 3. HAZARDS IDENTIFICATION

May cause frostbite due to rapid evaporation. Extensive exposure can cause severe breathing difficulties. In serious cases risk of unconsciousness.

### 4. FIRST-AID MEASURES

**Inhalation:** Move injured person into fresh air and keep person calm under observation. If necessary, seek hospital and bring along these instructions.

**Skin contact:** **Frostbite:** Do not remove clothes, but flush with copious amounts of lukewarm water. Call ambulance. Continue flushing during transport to hospital.

**Eye contact:** Immediately flush with plenty of lukewarm water. Remove any contact lenses and open eyelids widely. Call ambulance. Continue flushing during transport to hospital. Bring along these instructions.

**Ingestion:** Immediately rinse mouth and drink plenty of liquid. Keep person under observation. If uncomfortable: Seek hospital and bring along these instructions.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** The product is non-combustible.  
Use fire-extinguishing media appropriate for surrounding materials.  
Cool containers exposed to heat with water spray and remove container, if no risk is involved.

**Specific hazards:** Containers can burst violently when heated, due to excess pressure build-up.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** If leakage occurs, turn off the supply and provide good ventilation. If necessary, use air-supplied breathing apparatus.

**Environmental precautions:** None specific.

**Methods for cleaning up:** Leaking cylinders should be moved to an area with good ventilation.

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### 7. HANDLING AND STORAGE

Handling: Observe good industrial hygiene practices.

Storage: Store in a cool fire-proof place.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation.

Occupational exposure limits:

<u>Chemical name:</u>	<u>Exposure limits:</u>	<u>Reference:</u>
Carbon dioxide	5000 ppm	ACGIH (USA, 2002), OSHA (USA, 2002), Danish TLV (2002)

Personal protection: Insulating gloves and goggles are recommended.  
In case of inadequate ventilation: Use suitable air-supplied respirator.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Colourless gas
<b>Odour:</b>	Pungent
<b>pH:</b>	Not available
<b>Melting point:</b>	Not available
<b>Boiling point:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Flash point:</b>	Not available
<b>Explosion properties:</b>	Not available
<b>Vapour pressure:</b>	Not available
<b>Vapour density:</b>	Not available
<b>Density:</b>	Not available
<b>Solubility:</b>	Not available
<b>Other:</b>	Not available

### 10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions/materials to avoid: Heating.

Hazardous decomposition products: None.

### 11. TOXICOLOGICAL INFORMATION

Inhalation: Excessive exposure to carbon dioxide may cause labored breathing, perspiration, severe breathing difficulties, headache, and dizziness.

Skin contact: In case of frostbite: redness, pain, and serious burns.

Eye contact: In case of frostbite: redness, pain, and impaired vision.

Ingestion: Not likely.

Long-term effects: None known.

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## 12. ECOLOGICAL INFORMATION

Mobility: Evaporates.

Degradability: Not relevant.

Ecotoxicity: Carbon dioxide contributes to hothouse effect.

## 13. DISPOSAL CONSIDERATIONS

EWC-code (European Waste Catalogue): 16 05 05

Abfallschlüsselnummern in Austria (ÖNORM S2100): 59803

Dispose of in accordance with Local Authority Requirements.

## 14. TRANSPORT INFORMATION

UN-no.: 1956 Proper shipping name: COMPRESSED GAS, N.O.S. (Nitrogen, Oxygen)

Sea (IMDG): **Class:** 2.2 **PG:** -  
**EmS:** F-C, S-V

Land (RID/ADR): **Class:** 2.2

Air (ICAO/IATA): **Class:** 2.2 **PG:** -

## 15. REGULATORY INFORMATION

Labelling: An assessment by Radiometer Medical ApS on May 9, 2005 has shown that according to EEC Directives 67/548/EEC and 99/45/EEC, the product is not liable to classification and labelling.

## 16. OTHER INFORMATION

Limitations/Restrictions: The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.  
This SDS complies with the US ANSI standard (ANSI 2400.1-1993) and the international standard (ISO 11014-1).

The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Based on:  
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Prepared by:  
**RADIOMETER MEDICAL ApS**

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