

## SAFETY DATA SHEET

### Nitrogen, compressed

Date: 14.10.2008  
replaces version dated: 05.05.2002

Version 3.0

SDS-No.: 8347/0-Eng  
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#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND NAME OF THE COMPANY

**Product name**  
Nitrogen, compressed  
BIOGON N  
**Chemical formula:** N<sub>2</sub>  
**Company identification**  
**Linde Gas Singapore Pte. Ltd.**  
50 Jurong Island Highway  
Singapore 627877  
**Emergency phone number:** 65.6867 8998-850

#### 2 COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Preparation:** Substance  
**Components/Impurities**  
Contains no other components or impurities which will influence the classification of the product.  
**CAS No.:** 07727-37-9  
**EEC No. (from EINECS):** 231-783-9

#### 3 HAZARDS IDENTIFICATION

**Hazards identification**  
Compressed gas.  
In high concentrations may cause asphyxiation.

#### 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 self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

#### 5 FIRE FIGHTING MEASURES

**Specific hazards**  
Exposure to fire may cause containers to rupture/explode. Non flammable.  
**Hazardous combustion products**  
None.  
**Suitable extinguishing media**  
All known extinguishants can be used.  
**Specific methods**  
If possible, stop flow of product. Move container away or cool with water from a protected position.  
**Special protective equipment for fire fighters**  
In confined space use self-contained breathing apparatus.

#### 6 ACCIDENTAL RELEASE MEASURES

**Personal Precautions**  
Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation.  
**Environmental precautions**  
Try to stop release.  
**Clean up methods**  
Ventilate area.

#### 7 HANDLING AND STORAGE

**Handling and storage**  
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. Keep container below 50°C in a well ventilated place.

#### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal protection**  
Ensure adequate ventilation.

#### 9 PHYSICAL AND CHEMICAL PROPERTIES

**Molecular weight:** 28  
**Melting point:** -210 °C  
**Boiling point:** -196 °C  
**Critical temperature:** -147 °C  
**Relative density, gas:** 0.97 (air=1)  
**Relative density, liquid:** Not applicable.  
**Vapour pressure 20°C:** Not applicable.  
**Solubility mg/l water:** 20 mg/l  
**Appearance/Colour:** Colourless gas  
**Odour:** No odour warning properties.

#### 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.

#### 13 DISPOSAL CONSIDERATIONS

**General**  
Do not discharge into any place where its accumulation could be dangerous. To atmosphere in a well ventilated place. Contact supplier if guidance is required.  
EWC No. 16 05 01

#### 14 TRANSPORT INFORMATION

**ADR / RID:** Class 2 Code 1A  
**IMDG:** Class 2.2  
**IATA:** Class 2.2  
**UN-No., Proper shipping name:**  
UN 1066 Stickstoff, verdichtet  
UN 1963 Nitrogen, compressed  
**Packing Instruction:** P200  
**Labelling according to ADR / RID:**  
Label 2.2: Non flammable, non-toxic gases  
**ADR / RID Hazard No.:** 20  
**CEFC Groupcard No.:** 20g01

#### Other transport information

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 they are firmly secured and:  
- cylinder valve is closed and not leaking

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- valve outlet cap nut or plug (where provided) is correctly fitted
- valve protection device (where provided) is correctly fitted
- adequate ventilation.
- compliance with applicable regulations.

**15 REGULATORY INFORMATION**

**Number in Annex I of Dir 67/548**

Not included in Annex I.

**EC Classification:**

Proposed by the industry:

Not classified as dangerous substance.

**Labelling of cylinders**

**-Symbols**

No symbol required.

**-Risk phrases**

RAs Asphyxiant in high concentrations.

**-Safety phrases**

S9 Keep container in well ventilated place.

S23 Do not breath the gas.

**16 OTHER INFORMATION**

Ensure all national/local regulations are observed. The hazard of asphyxiation is often overlooked and must be stressed during operator training. 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**